

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years (10)

Session 15-16

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
Spectrofluorometric determination of mercury and lead by colloidal CdS nanomaterial	Rekha Nagwanshi	Chemistry	Journal of Dispersion Science and Technology	2015	0193-2691	<a href="https://www.tandfonline.com/toc/ldis20/current">https://www.tandfonline.com/toc/ldis20/current</a>	<a href="https://www.tandfonline.com/doi/abs/10.1080/01932691.2015.1039020?journalCode=ldis20">https://www.tandfonline.com/doi/abs/10.1080/01932691.2015.1039020?journalCode=ldis20</a>	Web of Science
Adsorption kinetics and binding studies of protein quantum dots interaction: a spectroscopic approach	Rekha Nagwanshi	Chemistry	Journal of fluorescence	2016	1053-0509	<a href="https://www.springer.com/journal/10895">https://www.springer.com/journal/10895</a>	<a href="https://pubmed.ncbi.nlm.nih.gov/26825079/">https://pubmed.ncbi.nlm.nih.gov/26825079/</a>	Web of Science
Interaction of thiolated amino acids and peptide onto the gold nanoparticle surface: Radical scavenging activity	Rekha Nagwanshi	Chemistry	Indian Journal of Chemistry - Section A (IJC-A)	2015	0376-4710	<a href="http://nopr.niscair.res.in/handle/123456789/59">http://nopr.niscair.res.in/handle/123456789/59</a>	<a href="http://nopr.niscair.res.in/bitstream/123456789/32853/2/IJCA%2054A%2810%29%201206-1214.pdf">http://nopr.niscair.res.in/bitstream/123456789/32853/2/IJCA%2054A%2810%29%201206-1214.pdf</a>	Web of Science
Radical scavenging efficacy of thiol capped silver nanoparticles	Rekha Nagwanshi	Chemistry	Journal of Chemical Sciences	2015	2183-2191	<a href="https://www.springer.com/journal/12039">https://www.springer.com/journal/12039</a>	<a href="https://link.springer.com/article/10.1007/s12039-015-0968-x">https://link.springer.com/article/10.1007/s12039-015-0968-x</a>	Web of Science, Scopus
Hydrolytic cleavage of paraoxon and parathion by oximate and functionalized oximate ions: A comparative study	Rekha Nagwanshi	Chemistry	Indian Journal of Chemistry - Section A (IJC-A)	2016	0019-5103	<a href="http://nopr.niscair.res.in/handle/123456789/59">http://nopr.niscair.res.in/handle/123456789/59</a>	<a href="http://nopr.niscair.res.in/bitstream/123456789/34192/1/IJCA%2055A%285%29%20560-565.pdf">http://nopr.niscair.res.in/bitstream/123456789/34192/1/IJCA%2055A%285%29%20560-565.pdf</a>	Web of Science
Nucleophilicity of aromatic and aliphatic hydroxamate ions towards C=O and P=O center in cationic micellar media	Rekha Nagwanshi	Chemistry	Journal of Indian Chemical Society	2016	0019-4522	<a href="https://www.journals.elsevier.com/journal-of-the-indian-chemical-society">https://www.journals.elsevier.com/journal-of-the-indian-chemical-society</a>	<a href="https://www.researchgate.net/profile/Manmohan-Satnami/publication/292139775_Nucleophilicity_of_aromatic_and_aliphatic_hydroxamate_ions_towards_CO_and_PO_center_in_cationic_micellar_media/links/56a9e27d08ae2df82165be3a/Nucleophilicity-of-aromatic-and-aliphatic-hydroxamate-ions-towards-CO-and-PO-center-in-cationic-micellar-media.pdf">https://www.researchgate.net/profile/Manmohan-Satnami/publication/292139775_Nucleophilicity_of_aromatic_and_aliphatic_hydroxamate_ions_towards_CO_and_PO_center_in_cationic_micellar_media/links/56a9e27d08ae2df82165be3a/Nucleophilicity-of-aromatic-and-aliphatic-hydroxamate-ions-towards-CO-and-PO-center-in-cationic-micellar-media.pdf</a>	Web of Science, Scopus
CdS quantum dots: aqueous synthesis, spectroscopic and microscopic investigation	Rekha Nagwanshi	Chemistry	Journal of Indian Chemical Society	2016	0019-4522	<a href="https://www.journals.elsevier.com/journal-of-the-indian-chemical-society">https://www.journals.elsevier.com/journal-of-the-indian-chemical-society</a>	<a href="https://www.researchgate.net/publication/284492393_CdS_Quantum_Dots_Aqueous_Synthesis_Spectroscopic_and_Microscopic_Investigation">https://www.researchgate.net/publication/284492393_CdS_Quantum_Dots_Aqueous_Synthesis_Spectroscopic_and_Microscopic_Investigation</a>	Web of Science, Scopus
Visible light-driven photocatalytic degradation and mineralization of the malachite green dye in a slurry photoreactor	Bhawna Sarwan, Brijesh Pare	Chemistry	Particulate science and technology	2016	1548-0046	<a href="https://www.tandfonline.com/toc/upst20/current">https://www.tandfonline.com/toc/upst20/current</a>	<a href="https://www.tandfonline.com/doi/abs/10.1080/02726351.2016.1168893?journalCode=upst20">https://www.tandfonline.com/doi/abs/10.1080/02726351.2016.1168893?journalCode=upst20</a>	Web of Science, Scopus
Construction and Analysis of Myopathy and Parkinson disease protein network	Dr.Shobha Shouche	Zoology	international journal of current research and review	2015	2231-2196 (Print) 975-5241 (Online)	<a href="https://www.ijccr.com/">https://www.ijccr.com/</a>	<a href="http://ijccr.com/uploads/375_pdf.pdf">http://ijccr.com/uploads/375_pdf.pdf</a>	Scopus
Butterfly Fauna in Four sites of Ujjain city madhay Pradesh, India	Dr.ShobhaSchouche	Zoology	International Journal of Biological Research and development	2015	2250-0022	<a href="http://www.tjprc.org/journals/international-journal-of-biological-research-and-development268">http://www.tjprc.org/journals/international-journal-of-biological-research-and-development268</a>	<a href="https://www.academia.edu/21039713/BUTTERFLY_FAUNA_IN_FOUR_SITES_OF_UJJAIN_CITY_MADHYA_PRADESH_INDIA">https://www.academia.edu/21039713/BUTTERFLY_FAUNA_IN_FOUR_SITES_OF_UJJAIN_CITY_MADHYA_PRADESH_INDIA</a>	Other
SOCIAL PROBLEMS AND ENVIRONMENT	Dr. Shobha Schouche	Zoology	International Journal of Research Granthaalayah	2015	(O) 2350-0530 (P) 2394-3629	<a href="http://granthaalayah.com/">http://granthaalayah.com/</a>	<a href="https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15_S09_51">https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15_S09_51</a>	Other

Photonics technology, Application and its economic impact	Dr. Shobha Schouche	Zoology	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/I/JAST">http://ignited.in/I/JAST</a>	<a href="http://ignited.in/p/3859">http://ignited.in/p/3859</a>	UGC Approved
Effect of Different Microbial Treatments on Germination, Seedling Growth and Other Quality Parameters of Maize (Zea mays L.)	Dr. Anurag Titov	Botany	Journal of Medical, Biomedical and Applied Sciences	2016	2349-0748	<a href="https://www.ajol.info/index.php/imbs">https://www.ajol.info/index.php/imbs</a>	<a href="http://imbias.in/index.php/imbias/article/view/16">http://imbias.in/index.php/imbias/article/view/16</a>	Other
Equivalent Pore Dimensions And Membrane Characterization Parameters In Transport Phenomenon Across Ion Exchange Membranes (58-64).	Dr. Kalpana V. Singh	Chemistry	IOSR Journal of Applied Chemistry	2016	2278 -5736	<a href="https://www.iosrjournals.org/iosr-jac.html">https://www.iosrjournals.org/iosr-jac.html</a>	<a href="http://www.iosrjournals.org/iosr-jac/papers/vol9-issue1/Version-1/H09115864.pdf">http://www.iosrjournals.org/iosr-jac/papers/vol9-issue1/Version-1/H09115864.pdf</a>	Other
Microwave Assisted Synthesis, A Green Protocol For Development Of New And Advanced Drug Delivery Systems, A Review	Dr. Kalpana V. Singh	Chemistry	International Journal of Research GRANTHAALAYAHV	2015	2350 -0350	<a href="http://granthaalayah.com/">http://granthaalayah.com/</a>	<a href="http://granthaalayah.com/Articles/Vol3Iss9SE/19_IJRG15_S09_40.pdf">http://granthaalayah.com/Articles/Vol3Iss9SE/19_IJRG15_S09_40.pdf</a>	Other
ANTI-NEOPLASTIC DRUG-BIOMEMBRANE INTERACTION STUDIES THROUGH BIO MEMBRANE MODELS AND THEIR UTILITY IN DRUG DESIGN AND DEVELOPMENT.	Dr. Kalpana V. Singh	Chemistry	IOSR JOURNAL OF APPLIED CHEMISTRY	2016	2278 -5736	<a href="https://www.iosrjournals.org/iosr-jac.html">https://www.iosrjournals.org/iosr-jac.html</a>	<a href="https://www.iosrjournals.org/iosr-jac/papers/vol9-issue5/Version-1/B0905011216.pdf">https://www.iosrjournals.org/iosr-jac/papers/vol9-issue5/Version-1/B0905011216.pdf</a>	Other
Filtration Coefficient Intransport Phenomenon Across Ion Exchange Membranes.	Dr. Kalpana V. Singh	Chemistry	IOSR Journal Of Applied Chemistry	2016	2278 -5736	<a href="https://www.iosrjournals.org/iosr-jac.html">https://www.iosrjournals.org/iosr-jac.html</a>	<a href="http://www.iosrjournals.org/iosr-jac/papers/vol9-issue4/Version-1/E0904012531.pdf">http://www.iosrjournals.org/iosr-jac/papers/vol9-issue4/Version-1/E0904012531.pdf</a>	Other
Challenged Ground Water Foot Prints, "A Pressure Indicator" For Upcoming Ujjain Ground Water Crisis, An Analysis In Simhastha 2016 Context (28-35)	Dr. Kalpana V. Singh	Chemistry	IOSR Journal Of Applied Chemistry	2016	2278 -5736	<a href="https://www.iosrjournals.org/iosr-jac.html">https://www.iosrjournals.org/iosr-jac.html</a>	<a href="https://iosrjournals.org/iosr-jac/papers/vol9-issue6/Version-1/D0906012835.pdf">https://iosrjournals.org/iosr-jac/papers/vol9-issue6/Version-1/D0906012835.pdf</a>	Other
Simple and Eco-friendly Method for Synthesis of 3,4-dihydropyrimidin-2(1H) ones / thiones by Sodium Hydrogen Sulfate as Novel and Replicable Heterogeneous Catalyst	Dr. Arpan Bhardwaj, Pervaz Ahmed Ganie	Chemistry	International Journal of Science and Research (IJSR)	2016	2319-7064	<a href="https://www.ijsr.net/">https://www.ijsr.net/</a>	<a href="https://www.ijsr.net/get_abstract.php?paper_id=NOV161546">https://www.ijsr.net/get_abstract.php?paper_id=NOV161546</a>	Other
LASER TWEEZERS IN DRUG DESIGNING.	Dr. Kalpana V. Singh	Chemistry	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/I/JAST">http://ignited.in/I/JAST</a>	<a href="http://ipublisher.in/File_upload/17486_42869014.pdf">http://ipublisher.in/File_upload/17486_42869014.pdf</a>	UGC Approved
A Magic of Cis - Trans Isomerization and Light Induced Molecular Changes	Dr. Jeeven Singh Solanki	Chemistry	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/I/JAST">http://ignited.in/I/JAST</a>	<a href="http://ignited.in/p/3853">http://ignited.in/p/3853</a>	UGC Approved
Applications of Solar Light Induced Aop In Detoxification Of Contaminated Water	Dr. Brijesh Pare	Chemistry	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/I/JAST">http://ignited.in/I/JAST</a>	<a href="http://ignited.in/p/3837">http://ignited.in/p/3837</a>	UGC Approved
Laser Technology and Its Application In Today'S World	Dr. Manmeet Kaur Makkad	Chemistry	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/I/JAST">http://ignited.in/I/JAST</a>	<a href="http://ignited.in/I/a/3846">http://ignited.in/I/a/3846</a>	UGC Approved
Green house technology	Dr. Shakuntala Pandey	Chemistry	International Journal of Research - GRANTHAALAYAH	2015	2350 -0350	<a href="http://granthaalayah.com/">http://granthaalayah.com/</a>	<a href="https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15_S09_101/3061">https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15_S09_101/3061</a>	Other
Photonix System and components	Dr. Shakuntala Pandey	Chemistry	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/I/JAST">http://ignited.in/I/JAST</a>	<a href="http://ignited.in/I/a/3840">http://ignited.in/I/a/3840</a>	UGC Approved
Photonics and its Economic Impact	Pratibha Namdev	Chemistry	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/I/JAST">http://ignited.in/I/JAST</a>	<a href="http://ignited.in/I/a/3856">http://ignited.in/I/a/3856</a>	UGC Approved
STUDY OF PHYSICO-CHEMICAL PARAMETERS AND MICROFLORA OF RIVER KHAN, UJJAIN, INDIA	Pinky dwivedi	Botany	International Journal of Research GRANTHAALAYAHV	2015	2350 -0350	<a href="http://granthaalayah.com/">http://granthaalayah.com/</a>	<a href="http://granthaalayah.com/Articles/Vol3Iss9SE/76_IJRG15_S09_126.pdf">http://granthaalayah.com/Articles/Vol3Iss9SE/76_IJRG15_S09_126.pdf</a>	Other

Impact of Chemical Fertilizer and Organic Manure on the Germination and Growth of Soybean (Glycine max L.)	Muzaffar Ahmad Shaikh, Pinky Dwivedi	Botany	Advances in Life Science & Technology	2015	(P)2224-7181 (O)2225-062X	<a href="https://iiste.org/Journals/index.php/ALST">https://iiste.org/Journals/index.php/ALST</a>	<a href="https://www.iiste.org/Journals/index.php/ALST/article/view/21278/21776">https://www.iiste.org/Journals/index.php/ALST/article/view/21278/21776</a>	Other
Pesticide Scenario of India with particular reference to Madhya Pradesh	Arshid Ahmad Khanday, Pinky Dwivedi	Botany	New York Science Journal	2015	(P) 1554-0200 (O) 2375-723X	<a href="http://www.sciencepub.net/newyork/">http://www.sciencepub.net/newyork/</a>	<a href="http://www.sciencepub.net/newyork/ny080815/011_29061ny080815_69_76.pdf">http://www.sciencepub.net/newyork/ny080815/011_29061ny080815_69_76.pdf</a>	Other
Diversity Studies of Zooplankton Ecology in Triveni Sangam Kshipra River Ujjain	Seema Trivedi	Zoology	International Journal of Pharmacology and Biological Science	2015	0973-6808	<a href="http://www.connectjournal.com/ijpbs">http://www.connectjournal.com/ijpbs</a>	<a href="https://www.proquest.com/openview/b39891408209f0bf3eff942f06a029e4/1?pq-origsite=gscholar&amp;cbl=136118">https://www.proquest.com/openview/b39891408209f0bf3eff942f06a029e4/1?pq-origsite=gscholar&amp;cbl=136118</a>	UGC Approved
Diversity of Phytoplankton in Kshipra River Triveni Station	Seema Trivedi	Zoology	International Journal of Research GRANTHAALAYAHV	2015	2350 -0350	<a href="http://granthaalayah.com/">http://granthaalayah.com/</a>	<a href="https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15_S09_100/3060">https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15_S09_100/3060</a>	Other
Determination of Zooplanktons by using Laser Counters	Seema Trivedi	Zoology	Journal of Advances in Science and Technology	2016	2230 - 9659	<a href="http://ignited.in/IJAST">http://ignited.in/IJAST</a>	<a href="http://ignited.in/I/a/3841">http://ignited.in/I/a/3841</a>	UGC Approved
Detection of hepatitis Antigen and Antibody in serum of female Human Population	Rekha Khanna	Zoology	International Journal of Research GRANTHAALAYAHV	2015	2350 -0350	<a href="http://granthaalayah.com/">http://granthaalayah.com/</a>	<a href="http://granthaalayah.com/Articles/Vol3Iss9SE/82_IJRG15_S09_138.pdf">http://granthaalayah.com/Articles/Vol3Iss9SE/82_IJRG15_S09_138.pdf</a>	Other
XANES and EXAFS Studies of Copper (II) Micro Cyclic Carbamide complexes	Pramod Malviya	Physics	International Journal of Scientific Research in Physics and Applied Sciences	2015	2348-3423	<a href="https://www.isroset.org/ijournal/IJRPAS/index.php">https://www.isroset.org/ijournal/IJRPAS/index.php</a>	<a href="https://isroset.org/pub_paper/IJRPAS/IJRPAS-20137.pdf">https://isroset.org/pub_paper/IJRPAS/IJRPAS-20137.pdf</a>	Other

### Session 16-17

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
Antibacterial Properties Of Amino Acid Functionalized Silver Nanoparticles Decorated On Graphene Oxide Sheets	Dr. Rekha Nagwanshi	Chemistry	SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy	2016	1386-1425	<a href="https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy">https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1386142517302081?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S1386142517302081?via%3Dihub</a>	Web of Science
Green Luminescent Cdte Quantum Dot Based Fluorescence Nano-Sensor For Sensitive Detection Of Arsenic (lii)	Dr. Rekha Nagwanshi	Chemistry	Journal Of Fluorescence	2017	1053-0509	<a href="https://www.springer.com/journal/10895">https://www.springer.com/journal/10895</a>	<a href="https://europemc.org/article/med/28032282">https://europemc.org/article/med/28032282</a>	Web of Science
Mn2+ Doped-Cdte/Zns Modified Fluorescence Nanosensor For Detection Of Glucose	Dr. Rekha Nagwanshi	Chemistry	Sensors and Actuators B: Chemical	2017	0925-4005	<a href="https://www.sciencedirect.com/journal/sensors-and-actuators-b-chemical">https://www.sciencedirect.com/journal/sensors-and-actuators-b-chemical</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0925400517301259">https://www.sciencedirect.com/science/article/abs/pii/S0925400517301259</a>	Web of Science, Scopus
Surface Plasmon Resonance Based Spectrophotometric Determination Of Medicinally Important Thiol Compounds Using Unmodified Silver Nanoparticles	Dr. Rekha Nagwanshi	Chemistry	SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy	2017	1386-1425	<a href="https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy">https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1386142517301361?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S1386142517301361?via%3Dihub</a>	Web of Science
Protein Nanoparticle Interaction: A Spectrophotometric Approach For Adsorption Kinetics And Binding Studies	Dr. Rekha Nagwanshi	Chemistry	Journal of Molecular Structure	2016	0022-2860	<a href="https://www.sciencedirect.com/journal/journal-of-molecular-structure">https://www.sciencedirect.com/journal/journal-of-molecular-structure</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0022286016302952">https://www.sciencedirect.com/science/article/abs/pii/S0022286016302952</a>	Web of Science, Scopus

Influence Of Octanohydroxamic Acid On The Association Behavior Of Cationic Surfactants: Hydrolytic Cleavage Of Phosphate Ester	Dr. Rekha Nagwanshi	Chemistry	Journal of Molecular Liquids	2016	0167-7322	<a href="https://www.sciencedirect.com/journal/journal-of-molecular-liquids">https://www.sciencedirect.com/journal/journal-of-molecular-liquids</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0167732216309576">https://www.sciencedirect.com/science/article/abs/pii/S0167732216309576</a>	Web of Science, Scopus
Molecular Docking Studies Of Deacetylbasacodyl With Intestinal Sucrase Maltase Enzyme	Dr. Kalpana Singh	Chemistry	International Journal of Advances in Scientific Research	2017	2395-3616	<a href="https://ssjournals.com/index.php/ijasr/">https://ssjournals.com/index.php/ijasr/</a>	<a href="https://ssjournals.com/index.php/ijasr/article/view/3821">https://ssjournals.com/index.php/ijasr/article/view/3821</a>	Other
Hydrolytic Cleavage Of Paraoxon By Octanohydroxamate Ion In Cationic Microemulsions	Dr. Rekha Nagwanshi	Chemistry	International Journal of Chemical Kinetics	2016	1097-4601	<a href="https://onlinelibrary.wiley.com/journal/10974601">https://onlinelibrary.wiley.com/journal/10974601</a>	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/kin.21018">https://onlinelibrary.wiley.com/doi/abs/10.1002/kin.21018</a>	Web of Science, Scopus
Kinetic Investigation Of Micellar Promoted Pyridine Based Oximate And Hydroxamate Catalysis On Phosphotriester Pesticides	Dr. Rekha Nagwanshi	Chemistry	Catalysis Letters	2016	1572-879X 1011-372X	<a href="https://www.springer.com/journal/10562">https://www.springer.com/journal/10562</a>	<a href="https://link.springer.com/article/10.1007/s10562-016-1912-5">https://link.springer.com/article/10.1007/s10562-016-1912-5</a>	Web of Science, Scopus
Reactivity Of Hydroxamate Ions In Cationic Vesicular Media For The Cleavage Of Carboxylate Esters	Dr. Rekha Nagwanshi	Chemistry	Journal of Surfactants And Detergents	2016	1558-9293	<a href="https://aocs.onlinelibrary.wiley.com/journal/15589293">https://aocs.onlinelibrary.wiley.com/journal/15589293</a>	<a href="https://aocs.onlinelibrary.wiley.com/doi/abs/10.1007/s11743-016-1919-3">https://aocs.onlinelibrary.wiley.com/doi/abs/10.1007/s11743-016-1919-3</a>	Web of Science, Scopus
ZIKA VIRUS SERINE PROTEASE COMPLEX (NS2B-NS3) INHIBITION BY 2-AMINO-5-(((1Z)-AMINO(((Z)-BENZOYLIMINO))METHYLAMINO)-N-(5-AMINO-7-[[[CARBAMOYL(PHENYL)METHYLAMINO]-6-OXOHEPTYL]PENTANAMIDE, IN SILICO STUDIES	Dr. Kalpana V. Singh	Chemistry	Asian Journal of Pharmaceutical and Clinical Research	2017	2455-3891	<a href="https://innovareacademics.in/journals/index.php/ajpcr">https://innovareacademics.in/journals/index.php/ajpcr</a>	<a href="https://innovareacademics.in/journals/index.php/ajpcr/article/view/17286">https://innovareacademics.in/journals/index.php/ajpcr/article/view/17286</a>	Scopus
Non Equilibrium Thermodynamic Studies Through Activation Parameters In Transport Phenomenon Across Ion Exchange Membranes.(54-66 )	Dr. Kalpana V. Singh	Chemistry	IOSR Journal Of Applied Chemistry	2016	2278 -5736	<a href="https://www.iosrjournals.org/iosr-jac.html">https://www.iosrjournals.org/iosr-jac.html</a>	<a href="http://www.iosrjournals.org/iosr-jac/papers/vol9-issue8/Version-1/H0908015460.pdf">http://www.iosrjournals.org/iosr-jac/papers/vol9-issue8/Version-1/H0908015460.pdf</a>	Other
A Review Paper of the Laws of Thermodynamics to Apply the Human Bodies	Pramod Malviya	Physics	International Journal of Scientific Research in Multidisciplinary Studies	2016	(O) 2454-9312 (P)2454-6143	<a href="https://www.isroset.org/journal/IJSRMS/index.php">https://www.isroset.org/journal/IJSRMS/index.php</a>	<a href="https://www.isroset.org/pdf_paper_view.php?paper_id=294&amp;IJSRMS-20086.pdf">https://www.isroset.org/pdf_paper_view.php?paper_id=294&amp;IJSRMS-20086.pdf</a>	UGC Approved
ECO-FRIENDLY AND EFFICIENT SYNTHETIC PROTOCOL FOR BIOLOGICALLY ACTIVE DERIVATIVES OF PYRIMIDOPYRIMIDINE USING IONIC LIQUID TEAA: A GREEN AND EFFECTIVE CATALYST	Dr. Arpan Bhardwaj, Pervaz Ahmed Ganie	Chemistry	International Journal of Chemical and Pharmaceutical Analysis	2017	2395-2466	<a href="https://www.ijcpa.in/">https://www.ijcpa.in/</a>	<a href="https://www.ijcpa.in/abstract/ecofriendly-and-efficient-synthetic-protocol-for-biologically-active-derivatives-of-pyrimidopyrimidine-using-ionic-liqui-80695.html">https://www.ijcpa.in/abstract/ecofriendly-and-efficient-synthetic-protocol-for-biologically-active-derivatives-of-pyrimidopyrimidine-using-ionic-liqui-80695.html</a>	Other
Anti-Dermatophytic Activity Of Catharanthus Roseus L. (Leaves)	Nisar A Bhat, Dr. Arpan Bhardwaj	Chemistry	International Journal of Innovative Research and Advanced Studies (IJIRAS)	2017	2394-4404	<a href="https://www.ijiras.com/">https://www.ijiras.com/</a>	<a href="https://www.ijiras.com/2017/Vol_4-Issue_4/paper_35.pdf">https://www.ijiras.com/2017/Vol_4-Issue_4/paper_35.pdf</a>	Other
Anti-Dermatophytic Activity Of Piper Betle Linn. (Leaf Stalk)	Nisar A Bhat, Dr. Arpan Bhardwaj	Chemistry	International Journal of Innovative Research and Advanced Studies (IJIRAS)	2017	2394-4404	<a href="https://www.ijiras.com/">https://www.ijiras.com/</a>	<a href="https://www.ijiras.com/2017/Vol_4-Issue_3/paper_12.pdf">https://www.ijiras.com/2017/Vol_4-Issue_3/paper_12.pdf</a>	Other



"X-Ray K-Absorption Near Edge Structural Studies of Mixed Ligand Copper II With Pyridine-2-Carboxamide and Amino Acids", International Journal of Scientific Research in Physics and Applied Sciences,	Dr. Pramod Kumar Malviya	Physics	International Journal of Scientific Research in Physics and applied Science	2017	2348-3423	<a href="https://www.isroset.org/journal/IJSRPAS/indexing.php">https://www.isroset.org/journal/IJSRPAS/indexing.php</a>	<a href="https://www.isroset.org/pdf_paper_view.php?paper_id=318&amp;IJSRPAS-00286-7.pdf">https://www.isroset.org/pdf_paper_view.php?paper_id=318&amp;IJSRPAS-00286-7.pdf</a>	Other
Utilization of three obnoxious weeds (Parthenium hysterophorus, Lantana camara and Eichhornia crassipes) through vermicomposting and their response on vegetative growth of Soybean crop.	Rajeev Sharma, Dr. Harishankar Dwivedi, Dr. Pinki Dwivedi	Botany	International Journal of Advanced Research in Biological Sciences	2016	2348-8069	<a href="https://ijarbs.com/indexed.html">https://ijarbs.com/indexed.html</a>	<a href="https://ijarbs.com/pdfcopy/sept2016/ijarbs2.pdf">https://ijarbs.com/pdfcopy/sept2016/ijarbs2.pdf</a>	Other
A study on Macrophytic diversity in Vishnu Sagar water body at Ujjain (M.P.) India	Pradeep Sharma, Dr. Harishankar Dwivedi, Pinki Dwivedi, Rajeev Sharma	Botany	International Journal of Advanced Research in Biological Sciences	2016	2348-8069	<a href="https://ijarbs.com/indexed.html">https://ijarbs.com/indexed.html</a>	<a href="https://ijarbs.com/pdfcopy/aug2016/ijarbs3.pdf">https://ijarbs.com/pdfcopy/aug2016/ijarbs3.pdf</a>	Other
Studies on the physico-chemical status of Vishnu Sagar water body at Ujjain city under anthropogenic influences	Pradeep Sharma, Dr. Harishankar Dwivedi, Pinki Dwivedi, Rajeev Sharma	Botany	International Journal of Advanced Research in Biological Sciences	2016	2348-8069	<a href="https://ijarbs.com/indexed.html">https://ijarbs.com/indexed.html</a>	<a href="https://ijarbs.com/pdfcopy/july2016/ijarbs4.pdf">https://ijarbs.com/pdfcopy/july2016/ijarbs4.pdf</a>	Other
Water quality assessment of Kshir Sagar water body at Ujjain (M.P.) India.	Pradeep Sharma, Dr. Harishankar Dwivedi	Botany	International Journal of Advanced Research in Biological Sciences	2016	2348-8069	<a href="https://ijarbs.com/indexed.html">https://ijarbs.com/indexed.html</a>	<a href="https://ijarbs.com/pdfcopy/aug2016/ijarbs6.pdf">https://ijarbs.com/pdfcopy/aug2016/ijarbs6.pdf</a>	Other
Diversity of Aquatic Macrophytes of Govardhan Sagar water body at Ujjain (M.P.) India	Pradeep Sharma, Dr. Harishankar Dwivedi	Botany	International Journal of Advanced Research in Biological Sciences	2016	2348-8069	<a href="https://ijarbs.com/indexed.html">https://ijarbs.com/indexed.html</a>	<a href="https://ijarbs.com/pdfcopy/aug2016/ijarbs14.pdf">https://ijarbs.com/pdfcopy/aug2016/ijarbs14.pdf</a>	Other
Comparative Study of Soil Mixed Vermicompost and Cattle Dung on the Growth Parameters of Triticum astivum(Wheat) and Faciulus munga( Urad) Plant	Dr. Shobha Shouche	Zoology	American Research Journal of Agriculture	2017	2378-9018	<a href="https://www.arjonline.org/american-research-journal-of-agriculture">https://www.arjonline.org/american-research-journal-of-agriculture</a>	<a href="https://www.arjonline.org/papers/aria/v3-i1/3.pdf">https://www.arjonline.org/papers/aria/v3-i1/3.pdf</a>	Other
Role of Certain Biochemical in Maintenance of Osmotic Balance in Philosamia ricini during Starvation	Dr. Shobha Shouche	Zoology	International Journal for Environmental Rehabilitation and Conservation	2016	0975-6272	<a href="https://essence-journal.com/">https://essence-journal.com/</a>	<a href="https://essence-journal.com/wp-content/uploads/Archives/Volume_VII/Issue_2/Role-of-certain-Biochemicals-in-Maintanance-of-osmotic-balance-in-Philosamia-Ricini-during-starvation.pdf">https://essence-journal.com/wp-content/uploads/Archives/Volume_VII/Issue_2/Role-of-certain-Biochemicals-in-Maintanance-of-osmotic-balance-in-Philosamia-Ricini-during-starvation.pdf</a>	Other
Changes in Biochemical Composition in the Haemolymph of fifth Instar Larvae of Philosamia chricini during Thermal Stress	Dr. Shobha Shouche	Zoology	international journal of current research and review	2016	2231-2196 (Print) 975-5241 (Online)	<a href="https://www.ijcrr.com/">https://www.ijcrr.com/</a>	<a href="http://ijcrr.com/uploads/184_pdf.pdf">http://ijcrr.com/uploads/184_pdf.pdf</a>	Scopus
Effect of Different Microbial Treatments on Germination, Seedling Growth and Other Quality Parameters of Maize (Zea mays L.)	Dr. Anurag Titov	Botany	Journal of Medical, Biomedical and Applied Sciences	2016	2349-0748	<a href="https://www.ajol.info/index.php/imbs">https://www.ajol.info/index.php/imbs</a>	<a href="http://jmbas.in/index.php/jmbas/article/view/16">http://jmbas.in/index.php/jmbas/article/view/16</a>	Other

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
Hydrolytic Dephosphorylation of p- Nitrophenyl Diphenyl Phosphate by Alkyl Hydroxamate Ions	Dr. Rekha Nagwanshi	Chemistry	Journal of Surfactants And Detergents	2018	1558-9293	<a href="https://aocs.onlinelibrary.wiley.com/journal/15589293">https://aocs.onlinelibrary.wiley.com/journal/15589293</a>	<a href="https://aocs.onlinelibrary.wiley.com/doi/abs/10.1002/jsde.12006?af=R">https://aocs.onlinelibrary.wiley.com/doi/abs/10.1002/jsde.12006?af=R</a>	Web of Science, Scopus

Effect of operational parameter on photo cathartic degradation of or amyl pesticide	Dr. Brijesh pare, Satish Piplode, Vaishali Joshi	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-12/490">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-12/490</a>	Other
EFFECT OF OPERATIONAL PARAMETERS ON PHOTOCATALYTIC DEGRADATION OF TOLUIDINE BLUE UTILIZING BIOCL NANOPLATES IN SOLAR LIGHT	Dr. Brijesh pare, Satish Piplode, Vaishali Joshi	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-07/485">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-07/485</a>	Other
Solar light assisted photocatalytic degradation of hazardous and highly water soluble pesticide Methomyl using Flower like nano BiOCl	Satish Piplode, Brijesh Pare, Vaishali Joshi	Chemistry	International Journal of Scientific Research in Physics and applied Science	2017	2348-3423	<a href="https://www.isroset.org/ijournal/IJSRPAS/indexing.php">https://www.isroset.org/ijournal/IJSRPAS/indexing.php</a>	<a href="https://www.isroset.org/pdf_paper_view.php?paper_id=474&amp;2-IJSRPAS-484-12.pdf">https://www.isroset.org/pdf_paper_view.php?paper_id=474&amp;2-IJSRPAS-484-12.pdf</a>	Other
Photocatalytic degradation of environmentally hazardous textile dye azure B in the presence of solar light using Nano BiOCl	Dr. Brijesh pare, Vaishali Joshi	Chemistry	International Research Journal of Environmental Sciences	2018	2319-1414	<a href="http://www.isca.in/IJENS/">http://www.isca.in/IJENS/</a>	<a href="http://www.isca.in/IJENS/Archive/v7/i1/5.IJSCA-IRJEVS-2017-133.pdf">http://www.isca.in/IJENS/Archive/v7/i1/5.IJSCA-IRJEVS-2017-133.pdf</a>	Other
Molecular Docking Of Amitriptyline To Ceruloplasmin, Retinol-Binding Protein, And Serum Albumin	Dr. Kalpana Virendra Singh	Chemistry	Asian Journal of Pharmaceutical and Clinical Research	2018	2455-3891	<a href="https://innovareacademics.in/journals/index.php/ajpcr">https://innovareacademics.in/journals/index.php/ajpcr</a>	<a href="https://innovareacademics.in/journals/index.php/ajpcr/article/view/22721">https://innovareacademics.in/journals/index.php/ajpcr/article/view/22721</a>	Scopus
Biological Evaluation Of Glycogen Synthase Kinase-3 B Inhibitors As Antidiabetic Agent.	Dr. Jeeven Singh Solanki	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-01/479">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-01/479</a>	Other
Computer Aided Drug Design: A Paradigm Shift To Rational Drug Design (A Case Study Of Alzheimer's Drug Interpirdine Failure).	Dr. Kalpana Virendra Singh,	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-02/480">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-02/480</a>	Other
Nano Robots In Medicine: A Review. International Journal Of	Dr. Kalpana Virendra Singh	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="http://www.ijetmr.com/Articles/IJETMR17-SCIENCEFEST/IJETMR17-SCIENCEFEST-05.pdf">http://www.ijetmr.com/Articles/IJETMR17-SCIENCEFEST/IJETMR17-SCIENCEFEST-05.pdf</a>	Other
Production Of Biogas From Cellulose And Benzoate Using Anaerobic Bacterial Consortia	Dr. Kalpana Virendra Singh	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-10/488">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-10/488</a>	Other
Synthesis of Mixed Ligand Metal Complexes of Copper with Schiff base and thioacetamide	Smt. Pratibha Namdeo	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-04/482">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-04/482</a>	Other
Photolysis of fluorene and 9-fluorenone a toxic environmental contaminant: studies in the effect of solvent and intensity of the source	Dr. Rekha Nagwanshi	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-08/486">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-08/486</a>	Other
Photocatalytic and antibacterial activity of TiO <sub>2</sub> and Silver and Zinc doped TiO <sub>2</sub> nanoparticles.(2017)	Komal Chelaramani	Chemistry	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-15/492">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-15/492</a>	Other
Transformation of sandalwood leaves (Santalum album) into nutrient rich compound through vermicomposting	Ritu Nagar, Dr. Anurag Titov	Botany	International Journal of Horticulture, agriculture and Food Science	2018	2456-8635	<a href="https://aipublications.com/ijhaf/">https://aipublications.com/ijhaf/</a>	<a href="https://aipublications.com/uploads/issue_files/3-IJHAF-MAY-2018-8-Transformation.pdf">https://aipublications.com/uploads/issue_files/3-IJHAF-MAY-2018-8-Transformation.pdf</a>	Thomson Reuters

Vermicomposting of leaf litter: Way to convert waste into best	Ritu Nagar, Dr. Anurag Titov	Botany	International Journal of Current Science	2017	2250-1770	<a href="http://www.currentsciencejournal.info/">http://www.currentsciencejournal.info/</a>	<a href="https://www.researchgate.net/profile/Praveesh-Bhati/publication/321746622_Vermicomposting_of_Leaf_litters_Way_to_convert_waste_in_to_Best/links/5a2f58ef07e9bfe817035da/Vermicomposting-of-Leaf-litters-Way-to-convert-waste-in-to-Best.pdf">https://www.researchgate.net/profile/Praveesh-Bhati/publication/321746622_Vermicomposting_of_Leaf_litters_Way_to_convert_waste_in_to_Best/links/5a2f58ef07e9bfe817035da/Vermicomposting-of-Leaf-litters-Way-to-convert-waste-in-to-Best.pdf</a>	Other
Vermicomposting of green Eucalyptus leaf litter by Eisenia- Foetidaand Eudrilus eugenia	Ritu Nagar, Dr. Anurag Titov, Praveesh Bhati	Botany	International Journal of Environment, agriculture and Biotechnology	2017	2456-1878	<a href="https://ijeab.com/">https://ijeab.com/</a>	<a href="https://ijeab.com/detail/vermicomposting-of-green-eucalyptus-leaf-litter-by-eisenia-foetida-and-eudrilus-eugenia/">https://ijeab.com/detail/vermicomposting-of-green-eucalyptus-leaf-litter-by-eisenia-foetida-and-eudrilus-eugenia/</a>	Thomson Reuters
The study of effect on GlycineMax (L.) Merrill Tissue culture by plant growth regulators (PGRS) UV B supplementation	Reena Pachlaniya, Dr. Anurag Titov	Botany	International journal of advance research in science and engineering	2018	2319-8354	<a href="http://www.ijarse.com/">http://www.ijarse.com/</a>	<a href="http://www.ijarse.com/images/fullpdf/1516702662_RIMT212ijarse.pdf">http://www.ijarse.com/images/fullpdf/1516702662_RIMT212ijarse.pdf</a>	Other
Effect of water extract of vermicompost of different green leaf litter waste on the seed germination and seedling growth of Mung (Vigna Radiata)	Ritu Nagar, Dr. Anurag Titov, Praveesh Bhati	Botany	International Journal of Higher Education and Research	2017	2277-260X	<a href="http://www.ijher.com/">http://www.ijher.com/</a>	<a href="https://www.researchgate.net/publication/321145071_INTERNATIONAL_JOURNAL_OF_HIGHER_EDUCATION_AND_RESEARCH_EFFECT_OF_WATER_EXTRACT_OF_VERMICOMPOST_OF_DIFFERENT_GREEN_LEAF_LITTER_WASTE_ON_THE_SEED_GERMINATION_AND_SEEDLING_GROWTH_OF_MUNG_Vigna_radiata">https://www.researchgate.net/publication/321145071_INTERNATIONAL_JOURNAL_OF_HIGHER_EDUCATION_AND_RESEARCH_EFFECT_OF_WATER_EXTRACT_OF_VERMICOMPOST_OF_DIFFERENT_GREEN_LEAF_LITTER_WASTE_ON_THE_SEED_GERMINATION_AND_SEEDLING_GROWTH_OF_MUNG_Vigna_radiata</a>	Other
Physico-Chemical parameters and enzymatic activity of Soil, Organic manure and Impact of Organic manure and chemical fertilizers on seed germination of Soybean and Wheat	Muzafer Ahmed Shaikh, Dr. Pinky Dwivedi	Botany	International Journal of Engineering Technologies and Management Research	2017	2454-1907	<a href="http://www.ijetmr.com/">http://www.ijetmr.com/</a>	<a href="https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-20/497">https://www.granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-20/497</a>	Other
Seasonal Diversity of Phytoplankton in Relation to Seasonal Changes in Physiochemical parameters of Khedi Dam	Dr. Seema Trivedi	Zoology	International Journal of Pure and Applied Bio Sciences	2018	2320-7051	<a href="http://www.ijpab.com/index.php">http://www.ijpab.com/index.php</a>	<a href="http://www.ijpab.com/form/2018%20Volume%206,%20issue%202/IJPAB-2018-6-2-448-454.pdf">http://www.ijpab.com/form/2018%20Volume%206,%20issue%202/IJPAB-2018-6-2-448-454.pdf</a>	Other
“A Classification Of analyzed Detection and Improvement OS Fingerprinting and Various finger stamping scanning ports”	Dr. Nitin Tiwari	BCA	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2018	2321-9653	<a href="https://www.ijraset.com/">https://www.ijraset.com/</a>	<a href="https://www.ijraset.com/files/serve.php?FID=13172">https://www.ijraset.com/files/serve.php?FID=13172</a>	Other
An Overview and Analysis Based on Biometric Framework Technique and Fingerprint Biometric Technology”	Dr. Nitin Tiwari	BCA	International Journal of Scientific Research in Computer Science and Engineering	2017	2320-7639	<a href="https://www.isroset.org/journal/IJSCSE/index.php">https://www.isroset.org/journal/IJSCSE/index.php</a>	<a href="https://www.isroset.org/journal/IJSCSE/full_paper_view.php?paper_id=520">https://www.isroset.org/journal/IJSCSE/full_paper_view.php?paper_id=520</a>	Other
<b>A Proteomic analysis of haemolymph of <i>Philosamiaricini</i> during temperature and food stress</b>	Dr. Shobha Shouche	Zoology	IOSR Journal of Biotechnology and Biochemistry	2018	2278-8727	<a href="http://www.iosrjournals.org/iosr-jbb.html">http://www.iosrjournals.org/iosr-jbb.html</a>	<a href="https://www.researchgate.net/publication/323028881_A_Proteomic_analysis_of_haemolymph_of_Philosamia_ricini_during_temperature_and_food_stress">https://www.researchgate.net/publication/323028881_A_Proteomic_analysis_of_haemolymph_of_Philosamia_ricini_during_temperature_and_food_stress</a>	Other
Comparative study of soil mixed vermicompost and cattle dung on the growth parameters of <i>Triticumastivum</i> (wheat) <i>Faciolusmungo</i> (urad) published in Bioinformatics and Horticulture	Dr. Shobha Shouche	Zoology	American research journal of Agriculture	2017	2378-9018.	<a href="https://www.arjonline.org/american-research-journal-of-agriculture">https://www.arjonline.org/american-research-journal-of-agriculture</a>	<a href="https://www.arjonline.org/papers/aria/v3-i1/3.pdf">https://www.arjonline.org/papers/aria/v3-i1/3.pdf</a>	Other
Bioinformatics and Horticulture	Dr. Shobha Shouche	Zoology	Horticulture International Journal	2018	2576-4462	<a href="https://medcraveonline.com/HIJ/">https://medcraveonline.com/HIJ/</a>	<a href="https://medcraveonline.com/HIJ/HIJ-02-00018.pdf">https://medcraveonline.com/HIJ/HIJ-02-00018.pdf</a>	Other

Molecular screening of some antiviral compounds against four viral diseases H1N1, chikungunya, Ebola and Dengue	Dr. Shobha Shouche	Zoology	International journal of researches in Biosciences, Agriculture and Technology	2017	2347-517X	<a href="https://ijrbat.in/">https://ijrbat.in/</a>	<a href="https://ijrbat.in/upload_papers/02102017013055166.pdf">https://ijrbat.in/upload_papers/02102017013055166.pdf</a>	Other
<b>Session 2018-19</b>								
Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
Micellar-accelerated hydrolysis of organophosphate and thiophosphates by pyridine oximate	Dr. Rekha Nagwanshi	Chemistry	International Journal of Chemical Kinetics	2018	1097-4601	<a href="https://onlinelibrary.wiley.com/journal/10974601">https://onlinelibrary.wiley.com/journal/10974601</a>	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/kin.21217">https://onlinelibrary.wiley.com/doi/abs/10.1002/kin.21217</a>	Web of Science, Scopus
A carbon quantum dot-gold nanoparticle system as a probe for the inhibition and reactivation of acetylcholinesterase: detection of pesticides	Dr. Rekha Nagwanshi	Chemistry	New Journal of Chemistry	2019	1369-9261	<a href="https://www.rsc.org/journals-books-databases/about-journals/njc/">https://www.rsc.org/journals-books-databases/about-journals/njc/</a>	<a href="https://pubs.rsc.org/en/content/articlelanding/2019/nj/c9nj00555b">https://pubs.rsc.org/en/content/articlelanding/2019/nj/c9nj00555b</a>	Web of Science, Scopus
A colorimetric nanoprobe based on enzyme-immobilized silver nanoparticles for the efficient detection of cholesterol	Dr. Rekha Nagwanshi	Chemistry	RSC Advances	2019	2046-2069	<a href="https://www.rsc.org/journals-books-databases/about-journals/rsc-advances/">https://www.rsc.org/journals-books-databases/about-journals/rsc-advances/</a>	<a href="https://pubs.rsc.org/en/content/articlelanding/2019/ra/c9ra08328f#divAbstract">https://pubs.rsc.org/en/content/articlelanding/2019/ra/c9ra08328f#divAbstract</a>	Web of Science, Scopus
Synthesis of Mn/N:O and Mn/Biochlophanoparticles for degradation of Nile blue contaminated water under visible light illumination	Dr. Brijesh Pare	Chemistry	Particulate science and technology	2019	1548-0046	<a href="https://www.tandfonline.com/toc/upst20/current">https://www.tandfonline.com/toc/upst20/current</a>	<a href="https://www.tandfonline.com/doi/abs/10.1080/02726351.2019.1570991">https://www.tandfonline.com/doi/abs/10.1080/02726351.2019.1570991</a>	Web of Science, Scopus
Synthesis, characterization and antimicrobial study of poly (methyl methacrylate)/Ag nanocomposites	Dr. Arpan Bhardwaj	Chemistry	Vacuum	2018	0042-207X	<a href="https://www.journals.elsevier.com/vacuum">https://www.journals.elsevier.com/vacuum</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0042207X17318493">https://www.sciencedirect.com/science/article/abs/pii/S0042207X17318493</a>	Web of Science, Scopus
Synthesis Photocatalytic and Antibacterial Activities of Nickel Doped TiO <sub>2</sub> Nanoparticles	Komal Chelaramani, Dr. Arpan Bhardwaj	Chemistry	Oriental Journal Of Chemistry	2018	(P):0970 - 020X, (O): 2231-5039	<a href="http://www.orientjchem.org/">http://www.orientjchem.org/</a>	<a href="http://www.orientjchem.org/vol34no6/synthesis-photocatalytic-and-antibacterial-activities-of-nickel-doped-tio2-nanoparticles/">http://www.orientjchem.org/vol34no6/synthesis-photocatalytic-and-antibacterial-activities-of-nickel-doped-tio2-nanoparticles/</a>	Web of Science, Scopus
Pharmacological Evaluation, Phytochemical Screening Analytical Profiling of Various Extracts of Clerodendron serratum: An Medicinal Herb	Sapna Malviya, Dr. Pinky Dwivedi	Botany	International Journal of Ayurved and Pharma Chemistry	2018	2350-0204	<a href="http://ijapc.com/">http://ijapc.com/</a>	<a href="http://ijapc.com/volume9-second-issue/MNAPC-V9-I2-46-p-299-307.pdf">http://ijapc.com/volume9-second-issue/MNAPC-V9-I2-46-p-299-307.pdf</a>	Other
Extracts of Ailanthus excels an Essential Medicine in Ayurveda; Pharmacological evaluation and preliminary screening of phytochemicals	Dr. Pinky .Dwivedi	Botany	Journal of Drug delivery and therapeutics	2019	2250-1177	<a href="http://jddtonline.info/index.php/jddt">http://jddtonline.info/index.php/jddt</a>	<a href="http://jddtonline.info/index.php/jddt/article/view/2243/1707">http://jddtonline.info/index.php/jddt/article/view/2243/1707</a>	Other
Physiochemical Analysis of Sandalwood (Santalum Album) leaf litters degraded by Eisenia Foetedia and Eudrilus Eugenia	Ritu Nagar, Dr. Anurag Titov	Botany	International Annals of Science	2019	2456-7132	<a href="https://journals.iajr.in/index.php/ias">https://journals.iajr.in/index.php/ias</a>	<a href="https://journals.iajr.in/index.php/ias/article/view/1034/200">https://journals.iajr.in/index.php/ias/article/view/1034/200</a>	Other
Study of changes in physical parameter of compost and vermicompost of Eucalyptus leaf litter	Ritu Nagar, Dr. Anurag Titov	Botany	Advance journal of graduate research	2018	2456-7108	<a href="https://journals.iajr.in/index.php/ajgr">https://journals.iajr.in/index.php/ajgr</a>	<a href="https://journals.iajr.in/index.php/ajgr/article/view/477/144">https://journals.iajr.in/index.php/ajgr/article/view/477/144</a>	Other

Seed germination & seedling growth of fenugreek (Methi) ( <i>Trigonella Foenum Graecum</i> L.) influenced by water extract of eucalyptus leaf litter vermicompost & compost	Ritu Nagar, Dr. Anurag Titov	Botany	Global Journal of Science Frontier Research: D Agriculture and Veterinary	2019	0975-5896	<a href="https://globaljournals.org/journals/science-frontier-research/d-agriculture-veterinary">https://globaljournals.org/journals/science-frontier-research/d-agriculture-veterinary</a>	<a href="https://journalofscience.org/index.php/GJSFR/article/view/2398/2259">https://journalofscience.org/index.php/GJSFR/article/view/2398/2259</a>	Other
Estimation of secondary metabolites from methanolic extract of treated and non-treated callus of <i>Withania-Somnifera</i> using thin layer chromatography and high performance liquid chromatography	Reena Pachlania, Dr. Anurag Titov	Botany	International journal of research in engineering and science	2019	2581-5792	<a href="https://www.iires.org/">https://www.iires.org/</a>	<a href="https://www.iiresm.com/Vol.2_2019/Vol2_Is1_January19/IJRESM_V2_I1_42.pdf">https://www.iiresm.com/Vol.2_2019/Vol2_Is1_January19/IJRESM_V2_I1_42.pdf</a>	Other
Divergence in the vermicomposting of green and sentence black plum ( <i>SYZYGIUM CUMINI</i> ) Leaf Litters	Dr. Anurag Titov	Botany	Internation Journal of Research Granthalay	2019	2394-3629	<a href="http://granthaalayah.com/">http://granthaalayah.com/</a>	<a href="https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG19_A06_2336/616">https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG19_A06_2336/616</a>	Other
Study on the Source of Some Wild Threatened Ethno-Medicinal Plant Species as Therapy of Diverse Human Diseases in Simaiya Province of Mandla District (M.P.)	Dr. K.P. Sahu	Botany	Online International Interdisciplinary Research Journal	2018	2249-9598	<a href="http://oiiri.org/oiiri/">http://oiiri.org/oiiri/</a>	<a href="http://www.oiiri.org/oiiri/july-aug2018/08.pdf">http://www.oiiri.org/oiiri/july-aug2018/08.pdf</a>	Other
Critiquing Brecht's Epic Theatre Theory with Reference to Mother Courage and Her Children	R.C. Hemnani	English	International Journal of Research and Analytical Reviews	2019	2349-5138	<a href="https://www.ijrar.org/">https://www.ijrar.org/</a>	<a href="http://ijrar.com/upload_issue/ijrar_issue_20_543986.pdf">http://ijrar.com/upload_issue/ijrar_issue_20_543986.pdf</a>	UGC Approved
Microbiome analysis from Russell Viper found in western part of Madhya Pradesh, India	Dr. Shehla Ishaque	Zoology	International Journal of Life sciences	2018	2320-7817.	<a href="https://ijlsci.in/ls/index.php/home/">https://ijlsci.in/ls/index.php/home/</a>	<a href="http://oaji.net/articles/2017/736-1525460802.pdf">http://oaji.net/articles/2017/736-1525460802.pdf</a>	Other
Potential of actinomycetes as bio remediating and biocontrolling agents	Dr. Shobha Shouche	Zoology	Paripep-Indian Journal of Research	2019	2250-1991	<a href="https://www.worldwidejournals.com/paripep/">https://www.worldwidejournals.com/paripep/</a>	<a href="https://www.worldwidejournals.com/paripep/fileview/January_2019_1547639604_41.pdf">https://www.worldwidejournals.com/paripep/fileview/January_2019_1547639604_41.pdf</a>	Other
Distribution and composition of butterfly species of the soya been plant campus Ujjain M.P.	Dr. Shobha Shouche	Zoology	International Journal of Advance Research in Biological Science	2018	2348-8069	<a href="https://ijarbs.com/">https://ijarbs.com/</a>	<a href="https://ijarbs.com/pdfcopy/apr2018/ijarbs2.pdf">https://ijarbs.com/pdfcopy/apr2018/ijarbs2.pdf</a>	Other
Diversity and richness of butterfly from Government Madhav Science College Ujjain M.P. India Published in	Dr. Shobha Shouche	Zoology	Journal of Entomology and Zoology Studies	2018	2349-6800	<a href="https://www.entomologyjournal.com/">https://www.entomologyjournal.com/</a>	<a href="https://www.entomologyjournal.com/archives/2018/vol6issue2/PartM/6-1-99-980.pdf">https://www.entomologyjournal.com/archives/2018/vol6issue2/PartM/6-1-99-980.pdf</a>	Other
Prevalence and Antimicrobial susceptibility of nasal carriage of <i>Staphylococcus aureus</i> in anganwaris children in Ujjain (M.P.)	Dr. Shobha Shouche	Zoology	European journal of Biomedical and pharmaceutical sciences, volume	2018	2349-8870	<a href="https://www.ejbps.com/">https://www.ejbps.com/</a>	<a href="https://storage.googleapis.com/journal-uploads/ejbps/article_issue/volume_5_february_issue_2/1517711563.pdf">https://storage.googleapis.com/journal-uploads/ejbps/article_issue/volume_5_february_issue_2/1517711563.pdf</a>	Other

### Session 19-20

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
Grasses Diversity Of Mandav Region M.P	Dr. HS Dwivedi , Pinki Dwivedi	Botany	International Journal of Life Science	2019	2320-7817	<a href="https://ijlsci.in/ls/index.php/home/">https://ijlsci.in/ls/index.php/home/</a>	<a href="http://oaji.net/articles/2020/736-1583949862.pdf">http://oaji.net/articles/2020/736-1583949862.pdf</a>	Other
Impact of different fertilizer combinations on Biochemical Parameters of Wheat	Muzafer Ahmed Shaikh, Dr. Pinky Dwivedi	Botany	Modern Phytomorphology	2020	2226-3063	<a href="https://www.phytomorphology.com/">https://www.phytomorphology.com/</a>	<a href="https://www.phytomorphology.com/articles/impact-of-different-fertilizer-combinations-on-the-biochemical-parameters-of-wheat-triticum-aestivum-l.pdf">https://www.phytomorphology.com/articles/impact-of-different-fertilizer-combinations-on-the-biochemical-parameters-of-wheat-triticum-aestivum-l.pdf</a>	Web of Science
Effect of different microbial inoculants on growth and physiology of maize ( <i>Zea mays</i> L.) and wheat ( <i>Triticum aestivum</i> L.) in Vertisols of western Madhya Pradesh	Anurag Titov	Botany	Journal of Pharmacognosy and Phytochemistry	2019	2349-8234	<a href="https://www.phytojournal.com/">https://www.phytojournal.com/</a>	<a href="https://www.phytojournal.com/archives/2019/vol8issue4/PartBC/8-2-391-883.pdf">https://www.phytojournal.com/archives/2019/vol8issue4/PartBC/8-2-391-883.pdf</a>	Other

Vermicomposting of dry leaf litter of Palash (Bastard Teak) tree (Butea monosperma)	Anurag Titov	Botany	International Journal of Advanced Science and Research	2019	2455-4227	<a href="http://www.allsciencejournal.com/">http://www.allsciencejournal.com/</a>	<a href="file:///C:/Users/SDEVELOP/Downloads/4-3-26-320.pdf">file:///C:/Users/SDEVELOP/Downloads/4-3-26-320.pdf</a>	Other
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## Screenshots of research papers published during 2015-16

The screenshot shows the top portion of a research paper page. The browser address bar displays the URL: <https://doi.org/10.1080/01932691.2015.10390207>. The journal title is "Journal of Dispersion Science and Technology", Volume 37, 2016 - Issue 2. The article title is "Spectrofluorometric Determination of Mercury and Lead by Colloidal CdS Nanomaterial". The authors listed are Manmohan L. Satnami, Sandeep K. Vaishanav, and Rekha Nagwanshi. The article was published online on 12 Oct 2015. The abstract begins with "Heavy metal ions such as Hg and Pb are hazardous due to very high toxicity, mobility, and ability to accumulate through the food chain or atmosphere in the environment system. Therefore, ultrasensitive determination of mercury and lead is important to provide an evaluation index of ions in aqueous environment. This paper describes the investigation of surface modified quantum dots (QDs) as a sensing receptor for Hg<sup>2+</sup> and Pb<sup>2+</sup> ion detection by optical approach. Water-soluble L-". The page also features a sidebar with "262 Views", "20 CrossRef citations to date", and "0 Altmetric". There are buttons for "Submit an article", "Journal homepage", "Full Article", "Figures & data", "References", "Citations", "Metrics", "Reprints & Permissions", and "Get access". A "Related research" section is visible on the right.

The screenshot shows a PubMed search results page for the article "Adsorption Kinetics and Binding Studies of Protein Quantum Dots Interaction: A Spectroscopic Approach". The browser address bar shows the URL: <https://pubmed.ncbi.nlm.nih.gov/26825079/#affiliation-2>. The article title is "Adsorption Kinetics and Binding Studies of Protein Quantum Dots Interaction: A Spectroscopic Approach". The authors listed are Sandeep K Vaishanav<sup>1</sup>, Jyoti Korram<sup>1</sup>, Rekha Nagwanshi<sup>2</sup>, Kallol K Ghosh<sup>1</sup>, and Manmohan L Satnami<sup>3</sup>. The affiliations are listed as: 1 School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, CG, 492010, India; 2 [redacted]; 3 School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, CG, 492010, India. manmohanchem@gmail.com. The PMID is 26825079 and the DOI is 10.1007/s10895-016-1773-8. The abstract begins with "Protein Quantum dots interaction is crucial to investigate for better understanding of the biological interactions of QDs. Here in, the model protein Bovine serum albumin (BSA) was used to evaluate the". The page also features a sidebar with "FULL TEXT LINKS" (SpringerLink), "ACTIONS" (Cite, Favorites), "SHARE" (Twitter, Facebook, LinkedIn), and "PAGE NAVIGATION" (Title & authors, Abstract, Similar articles).







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Indian Journal of Chemistry  
Vol. 55A, May 2016, pp. 560-565

### Hydrolytic cleavage of paraoxon and parathion by oximate and functionalized oximate ions: A comparative study

Hitesh K Dewangan<sup>a</sup>, Neha Kandpal<sup>a</sup>, **Rekha Nagwanshi<sup>b</sup>**  
& Manmohan L Satnami<sup>a,\*</sup>

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Received 15 December 2015; revised and accepted 20 April 2016

Bimolecular reactions of O,O-diethyl-O-*p*-nitrophenylphosphate (paraoxon) and O,O-diethyl-O-*p*-nitrophenyl phosphorothioate (parathion) with oximate (pyridinealdoxime 2-PyOx<sup>-</sup> and 4-PyOx<sup>-</sup>) and its functionalized oximate, 4-(hydroxyimino)methyl-1-alkylpyridinium bromide ions (alkyl = C<sub>10</sub>H<sub>21</sub> (4-C<sub>10</sub>PyOx<sup>-</sup>); alkyl = C<sub>12</sub>H<sub>25</sub> (4-C<sub>12</sub>PyOx<sup>-</sup>)) have been investigated in aqueous and cationic micellar media of cetylpyridinium bromide, cetyltrimethylammonium bromide and cetyltridecyltrimethylammonium

and hydroxamate ions has been reported<sup>9-11</sup>. The  $\alpha$ -nucleophile is known to describe the abnormally enhanced nucleophilicity exhibited by nucleophiles having one or more non-bonding electron pairs at the position adjacent to the nucleophilic center.<sup>12-14</sup>

Recently, Ghosh *et al.*<sup>15</sup> examined the hydrolysis of PNPDP and BDNPP by a functionalized oximate ion and documented a prominent effect towards the ester cleavage. An earlier study has reported the catalytic activity of functionalized micelles including functional IBA and 1-cetyl-3-(2-oximopropyl) imidazolium chloride<sup>16</sup>. The cleavage of organophosphorus compounds by an  $\alpha$ -nucleophile in the presence of cationic micellar media is a frequently studied reaction<sup>17-19</sup>. It is well established that in many cases rate and pathway of all kinds of chemical reactions can be altered by performing the reaction in micellar media instead of pure bulk solvents. Rate of reaction accelerates or reduces depending on the size of the head group and space between two head groups as well as solubilization capacity of the interface region

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researchgate.net/profile/Manmohan-Satnami/publication/292139775\_Nucleophilicity\_of\_aromatic\_and\_aliphatic\_hydroxamate\_ions\_towards\_CO\_and\_PO\_center\_in\_cationic\_micellar\_media/links/5... 1 / 8 150%

Jan-9.p65

J. Indian Chem. Soc.,  
Vol. 93, January 2016, pp. 1-8

### Nucleophilicity of aromatic and aliphatic hydroxamate ions towards C=O and P=O center in cationic micellar media

Neha Kandpal<sup>a</sup>, Hitesh K. Dewangan<sup>a</sup>, Manmohan L. Satnami<sup>a,d</sup> and **Rekha Nagwanshi<sup>b</sup>**

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Manuscript received online 26 June 2015, accepted 13 August 2015

**Abstract :** The kinetics of the hydrolysis of *p*-nitrophenyl benzoate (PNPB) and *p*-nitrophenyldiphenyl phosphate (PNPDP) by hydroxamate ions (R'(C=O)N(RO<sup>-</sup>)) have been investigated in aqueous cationic micellar media at pH 6.5 to 12.0 and 27 °C. The pseudo-first order rate constants-surfactant profiles show micelle assisted bimolecular reaction involving an interfacial exchange between bulk aqueous media and micellar pseudophase. All the hydroxamate ion shows higher reactivity in cationic micellar media. Pseudophase model has been applied in order to determine micellar second order rate constant and binding constant.

**Keywords :**  $\alpha$ -Nucleophile, phosphate and carboxylate ester, cationic surfactant, pseudophase model.

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## CdS Quantum Dots: Aqueous Synthesis, Spectroscopic and Microscopic Investigation

September 2015 - Journal of the Indian Chemical Society 92(9):1-9

Authors:

- Manmohan Satnami**  
Pt. Ravishankar Shukla University
- Sandeep K. Vaishnav**  
State Forensic Science Laboratory, Raipur ...
- Kallol K. Ghosh**

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**Sandeep K. Vaishnav**  
State Forensic Science Laboratory, Raipur ...

**Rekha Nagwanhi**  
Govt. Madhav Science P.G. College, Ujjain

**Kallol K. Ghosh**

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Abstract

The spherical shape CdS quantum dots with cubic zinc blend phase were synthesized through aqueous route cadmium chloride and thiourea as cadmium and sulfur source and thioglycolic acid as a stabilizing agent. The size regime of the CdS quantum dots is in between 1.5 to 4.1 +/- 0.9 nm. The effect of concentration of cadmium and TGA has been investigated to explain the growth kinetics and stabilization of CdS quantum dots. Structural and morphological studies carried out by X-ray diffraction (XRD), Transmission electron microscopy (TEM), and Scanning electron microscopy (SEM). Optical properties have been studied by UV-Visible spectroscopy, Fluorescence measurements, and FTIR analysis. FTIR study suggested the thiolated interaction between CdS and thioglycolic acid. The electronic band gap was found to increase up to 3.93 eV from bulk 2.42 eV. The effect of cationic and anionic surfactants on

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## Visible light-driven photocatalytic degradation and mineralization of the malachite green dye in a slurry photoreactor

**Bhawna Sarwan**   
Laboratory of Photocatalysis, Department of Graduate College, Vardhaman University, Ujjain, India; Lovely Professional University, Jalandhar, India  
Correspondence: sarbhawna@gmail.com

19 Apr 2016, Published online: 07 Jun 2016  
10.1002/2726351.2016.1168893

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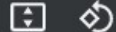
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The as-synthesized BiOCl nanoparticles were characterized by x-ray diffraction (XRD) and ultraviolet-visible (UV-Vis) techniques. The XRD pattern showed that a highly pure and crystalline phase has been obtained. The UV-vis diffuse reflectance spectroscopy (DRS) studies revealed the

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Research



## CONSTRUCTION AND ANALYSIS OF MYOPATHY AND PARKINSON DISEASE PROTEIN NETWORK

Sachin Rahangdale<sup>1</sup>, Shobha Shouche<sup>1</sup>, Ravikant Yadav<sup>1</sup>, Harshad Sharma<sup>2</sup>, Ankit Kumar Jain<sup>3</sup>

<sup>1</sup>Govt. Maadhav Science College, Ujjain, Madhya Pradesh, India; <sup>2</sup>School of Studies Microbiology Vikram University Ujjain, India; <sup>3</sup>Government Holkar Science College, Indore, Madhya Pradesh, India.

### ABSTRACT

Neurological Disorders are diseases of the central and peripheral nervous system. The disorders Parkinson myopathy are the traumatic disorders of the nervous system. The myopathies are neuromuscular disorders in which the primary symptom is muscle weakness due to dysfunction of muscle fiber and Parkinson's disease (PD) belongs to a group called motor system disorders, which are the result of the loss of dopamine-producing brain cells. Biological networks that applies to the biological system. These networks are widely used in many branches of biology as convolution of patterns of interaction between appropriate biological elements. Proteins-protein interaction (PPIs) in interaction networks (PINs) where proteins are nodes and their interaction are edges. In the present work we study network properties of proteins in disease protein-protein interaction network framework and identify common myopathy and Parkinson diseases.

**Key Words:** Framework, Interaction, Network, Edges, Neuromuscular

### INTRODUCTION

Neurological Disorders are diseases of the central and peripheral nervous system. In other words, the brain, spinal cord, cranial nerves, peripheral nerves, nerve roots, autonomic nervous system, neuromuscular junction, and muscles are responsible for neurological disorders. These disorders include epilepsy, Alzheimer disease, myopathy and other dementias, cerebrovascular diseases including stroke, migraine and other headache disorders, multiple sclerosis, Parkinson's disease, neuro-infections, brain tumours, traumatic disorders of the nervous system such as brain trauma, and neurological disorders as a result of malnutrition. [1] Hundreds of millions of people worldwide are affected by neurological disorders.

The Parkinson's disease and myopathy disorders of the nervous system. The Myopathies are neuromuscular disorders in which the primary symptom is muscle weakness due to dysfunction of muscle fibers. Myopathies can be inherited (such as congenital myopathies) or acquired (such as common myopathies). Parkinson's disease (PD) belongs to a group called motor system disorders, which are the result of the loss of dopamine-producing brain cells. The symptoms of PD are tremor, or trembling in the hands, legs, jaw, and face; rigidity, or stiffness in the muscles; bradykinesia, or slowness of movement; and postural instability, or impaired balance and coordination.

correction IJBRD - Butterfly Fauna in four sites of Ujjain City \_1\_

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International Journal of Biological Research and Development (IJBRD)  
ISSN (P): 2250-0022; ISSN (E): Applied  
Vol. 5, Issue 2, Dec 2015, 1-4  
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**BUTTERFLY FAUNA IN FOUR SITES OF UJJAIN CITY, MADHYA PRADESH, INDIA**

**SHOBHA SHOUCHE & SATYENDRA SINGH RATNAKAR**  
Department of Zoology, Microbiology and Bioinformatics,  
Government Madhav Science P.G. College, Ujjain, Madhya Pradesh, India

**ABSTRACT**  
Butterflies are diverse animals and sensitive to changes in microclimate and habitat which influences their distribution and abundance, they are also good indicator of environmental changes. The present study based on observation and sighting records of butterfly fauna from August 2014 to September 2015 in four sites of Ujjain City, Madhya Pradesh, India. In the present study a total of 584 individuals belonging to 27 species of 5 families were identified. Out of these families Nymphalidae with 13 species was the most dominant followed by Pieridae with 5 species, Lycaenidae with 5 species, Papilionidae with 3 species and Hesperidae with 1 species being the least.  
**KEYWORDS:** Abundance, Diversity, Ujjain City, Madhya Pradesh, Butterfly Species

Received: Oct 29, 2015; Accepted: Nov 03, 2015; Published: Nov 14, 2015; Paper Id.: IJBRDDEC20151

**INTRODUCTION**

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**SOCIAL PROBLEMS AND ENVIRONMENT**

**Mani Kant**  
Government Madhav Science College, Ujjain, (M.P.)

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**Keywords:** Environment, Diversity, Nonrenewable

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Photronics: Technology, Applications & its Economic Impact

Journal of Advances in Science and Technology  
Vol. 10, Issue No. 21, February-2016, ISSN 2230-9659

**Photronics: Technology, Applications & its Economic Impact**

Shobha Shouche<sup>1</sup> Ravikant Yadav<sup>2</sup>

<sup>1</sup>Department of Bioinformatics  
<sup>2</sup>Govt. Madhav Science College Ujjain MP, India

**INTRODUCTION**

Photronics is the science and technology of generating, controlling, and detecting photons, which are particles of light – by emission, transmission, amplification, detection, and modulation of light. The 21<sup>st</sup> century will be as dependent on photonics as the 20<sup>th</sup> century depended on the electronics. Photonics explores a wider variety of wavelengths than the electromagnetic spectrum, from gamma rays to radio, including X-rays, UV and infrared light. The characteristics of the waves and photons can help explore the universe, cure diseases, and might even solve crimes.

Photronics has marked its place in a many technologies – from laptops to smart phones to medical devices. Various industries have been actively

**Figure 1 Biophotonics and its applications**  
(Source: Applied BioPhotonics)

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ARTICLES | VOL 3 (2016) | doi:10.15520/v3i0.16

**Effect of Different Microbial Treatments on Germination, Seedling Growth and Other Quality Parameters of Maize (*Zea mays* L.)**

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Open Access    **Azad Ahmad Wani, Dr. Anurag Titov**

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**Abstract**

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## Equivalent Pore Dimensions and Membrane Characterization parameters in Transport Phenomenon across Ion Exchange Membrane

**Dr. Kalpana Virendra Singh**  
*Assistant Professor Chemistry Govt. Madhav Science P.G. College Ujjain (M.P.)*

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**Abstract:** Transport studies across natural biological and artificial membranes are very important from experimental and theoretical point of view. Transport through bio membranes follows the principle of selective permeability and is very important to study drug membrane interactions. Non equilibrium thermodynamics plays an important role in studying transport phenomenon. In the present investigation membrane is prepared by mechanical compression of cation exchange resin Indion 236 with adhesive araldite. Equivalent pore radius for membrane for different concentrations of aqueous solutions of glucose and sucrose at different temperatures have been determined. The cation exchange membrane has been characterized in terms of membrane constant A/I. The present study tries to establish a relationship between equivalent pore radius, concentration of solutes and temperature of study.

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### I. Introduction

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## MICROWAVE ASSISTED SYNTHESIS, A GREEN PROTOCOL FOR DEVELOPMENT OF NEW AND ADVANCED DRUG DELIVERY SYSTEMS, A REVIEW

**Kalpana Virendra Singh**  
*Govt. Madhav Science College Ujjain*

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**ABSTRACT**

Medicinal Chemistry community is considering new chemical processes, which are environmentally benign. Environmentally benign synthetic protocols have become the primary concern during complex drug discovery processes. Green chemistry is providing algorithms for protecting the environment, not by cleaning it, but by inventing new chemical processes that fuel the Economy and lifestyles, without causing any damage to the environment. Microwave assisted techniques has opened up new opportunities to the synthetic chemists in the form of new improved reaction pathways, that are not otherwise feasible. MAOS has reduced the reaction times from hours or days to minutes leading to efficient economic way for synthesis of large number of molecules. Present Review article attempts to focus on what is MAOS, how it is generated and works going on in this area.

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## Anti-Neoplastic Drug-Biomembrane Interaction Studies through Bio Membrane Models and Their Utility in Drug Design and Development

**Dr. KalpanaVirendra Singh**  
*P.G. Department of Chemistry and Pharmaceutical Chemistry, Govt. Madhav Science P.G.College Ujjain*

**Abstract:** Drug molecule experiences variety of interactions with bio membranes once it is administered in the body. Bio membranes too experiences changes in the strategic parameters like permeability, charge transfer and fluidity on interactions with the drug molecule. Pharmacokinetics as well as Pharmacodynamics gets affected. Understanding of these interactions is very important as it may lead into the development of new antineoplastic drugs or can improve upon the efficacy profile of existing Drug molecule. However studying drug bio membrane interactions in live membranes may cause damage to live membrane. Artificial in vitro and in silico membrane systems, help in understanding of various factors and barriers involved in drug transport and uptake in to cells, by exactly mimicking the Bio membrane

**Keywords:** Drug, Bio membrane, in vitro, in silico, transport

### I. Introduction

Drug molecule encounters many of the bio membranes after its administration in the body, from macrophage cells to vessel endothelium to blood brain or blood retinal barriers. Time and concentration plays the most important role in drug distribution inside the body. Plethora of interactions are experienced by drug molecule as well as by bio membrane. These interactions can have reciprocal results, on one hand molecules have the capability to alter the structure and function of bio membrane in terms of permeability charge transfer, fluidity and so on, bio membranes can also affect the structure of bio molecules in terms of stereo specificity

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## Filtration Coefficient in Transport phenomenon across Ion Exchange membranes.

**Dr. Kalpanavirendra Singh**  
*P. G. Department Of Chemistry And Pharmaceutical Chemistry Govt. Madhav Science P. G. College Ujjain (M.P.)*

**Abstract:** Transport studies across membranes follows the principle of selective permeability and are very important from experimental and theoretical point of view. These studies could be utilized for better understanding of drug membrane interactions. Non equilibrium thermodynamics plays an important role in studying transport phenomenon Filtration Coefficient  $L_p$  is a measure of a membrane's permeability, it denotes the volume of fluid filtered per unit time per unit area of membrane per unit pressure difference. In the present investigation membrane is prepared by mechanical compression of action exchange resin Indion 236 with adhesive araldite and has been characterized in terms of membrane constant  $Al$ . Filtration Coefficient  $L_p$  for different concentrations of aqueous solutions of glucose and sucrose at different temperatures have been determined. The present study tries to establish a relationship between Filtration Coefficient  $L_p$  equivalent pore radius, concentration of solutes and temperature of study.

**Keywords:** Transport, permeability, Filtration coefficient, equivalent pore radius, pressure

### I. Introduction

Transport processes across natural and artificial membranes are important from experimental and theoretical point of view. Transport phenomenon arises because any system in non equilibrium state will try to attain equilibrium state. At equilibrium the state variables remain constant and there is no net flow of matter or energy between the system and surroundings or between the parts of the system itself. Ion Exchange membranes are highly charged artificial membranes with ion groups in the form of solid phase. Filtration coefficient, when

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## Challenged Ground Water Foot Prints, "A Pressure Indicator" For Upcoming Ujjain Ground Water Crisis, An Analysis In Simhastha 2016 Context

Anil Prajapati<sup>2</sup> Sumanshu Sharma<sup>3</sup>  
<sup>1</sup> P.G. Department of Chemistry and Pharmaceutical Chemistry, Govt. Madhav Science P.G. College Ujjain [M.P.]  
<sup>2</sup> Department of Computer Science, Govt. Madhav Science P.G. College Ujjain [M.P.]  
<sup>3</sup> Department of Computer application, Govt. Madhav Science P.G. College Ujjain [M.P.]

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**Abstract:** Civilizations have developed around Water all over the world. Water is the median for development and plays vital role in socio-economic development. Nation's principal reserve of fresh water is ground water; it is also the most preferred resource to meet various requirements. More than 90% of rural and 50% of urban population is dependent on ground water sources in M.P. Ground water is also major source of irrigation in Madhya Pradesh and about 6,714,300 hectare of land is irrigated through ground water according to ground water report submitted in 2013. As per the well census of 2013, there are around 4369672 ground water abstraction structures with an estimated annual ground water draft of about 18 Billion Cubic Meter and the number is still swelling. There are reports from all over the state about drying up of a large number of dug wells/ bore wells in some areas due to declining ground water levels and this has jeopardized irrigation, industrial and domestic needs in Madhya Pradesh. Demands for safe drinking water are increasing and there are growing concerns about the scientific chemical parameters of water. Water quality issues related to geogenic contamination such as fluoride, anthropogenic contamination such as nitrate and inland salinity are the matter of concern. Ujjain also had disturbed and varied rainy seasons during past decade. City saw a major decline in the green cover owing to the cropping up of housing infrastructures and business endeavors. This

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## Simple and Eco-friendly Method for Synthesis of 3,4-dihydropyrimidin-2(1H) ones / thiones by Sodium Hydrogen Sulfate as Novel and Replicable Heterogeneous Catalyst.

Pervaz Ganie<sup>1</sup>, Arpan Bhardewaj<sup>2</sup>  
Department of Chemistry, Govt. Madhav Science P.G. College, Vikram University, Ujjain-456010, India.

**Abstract:** Sodium Hydrogen Sulfate supported Red Sea Sand is a novel, mild, less expensive, economic and reusable heterogeneous catalysts used for the synthesis of widely used pharmaceutically highly active moiety, 3,4-dihydropyrimidin-2(1H)-ones/thiones by the multicomponent Biginelli condensation of coupling between aromatic aldehydes, active methylene compounds and urea/thiourea prepared by both conventional and microwave irradiation method. The advantage of this proposed scaffold synthetic protocol is its operational simplicity, normal reaction conditions, comparatively high Yields, less reaction time required, reusable and recoverable catalytic medium with less use of solvents with the eco-friendly methodological procedure specially resulted obtained by Microwave irradiation are more convincing as compared to conventional method.

**Keyword:** Sodium Hydrogen Sulfate dihydrate, Red Sea Sand, Heterogeneous Catalyst, Conventional Verses Microwave Irradiation Method, Biginelli Product.



Laser Tweezers in Drug Designing

Journal of Advances in Science and Technology  
Vol. 10, Issue No. 21, February-2016, ISSN 2230-9659

# Laser Tweezers in Drug Designing

**Dr. Kalpana Virendra Singh**  
Department of Chemistry Govt. Madhav Science P.G. College Ujjain, India

**Abstract – Compact and three dimensional folding is must for proteins to carry out their unique specific functions. Whenever this folding goes wrong it leads to diseases like Alzheimer's, Parkinson's and Gaucher's disease. Mis folding is often toxic to living cells. Researchers across the globe are working day and night tirelessly to design new drugs, but despite importance, inadequacy of bulk methods to study folding pathways blurs the possibilities of finding out a genuine appropriate molecule. The ensemble measurement methods provide only average information about the folding process. Recent advances in Laser tweezers, a single molecule manipulation technique has revisited the protein folding with a new approach with several advantages over the traditional approach. Complications of synchronization required in the ensemble kinetic experiments are avoided in single-molecule approach detecting conformation transitions in real time. One single experiment is enough to obtain both energetics and kinetics of a macromolecule transition in single molecular approach.. In the latest research scientists has used lasers for designing drugs for brain disorders. There was an exciting evidence of two protein structures joining up in the brain, which acts as an amplifier for a slight increase in calcium concentration, thereby initiating a trigger release of neurotransmitter from one neuron to another. Laser tweezers work by harnessing the momentum of laser light to trap objects ranging from 0.3**

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# A Magic of CIS - Trans Isomerization and Light Induced Molecular Changes

**Jeeven Singh Solanki**  
P.G. Department of Chemistry Govt. Madhav Science College, Ujjain (M.P.) Pin -456010

**Abstract – When visible light hits the chromospheres (retinal), a p electron is promoted to a high energy orbital, allowing free rotation about the bond between carbon atom 11 and carbon atom 12 of the retinal molecule. About half the time, this rotation leads to the isomerization of retinal when the p electron returns to the lower-energy orbital. When retinal isomerizes, a conformational change in the protein opsin occurs. This conformational change initiates a cascade of biochemical reactions that result in the closing of Na<sup>+</sup> channels in the cell membrane. When the Na<sup>+</sup> channels are closed, a large potential difference builds up across the plasma membrane, and the potential difference is passed along to an adjoining nerve cell as an electrical impulse. The nerve cell carries this impulse to the brain, where the visual information is interpreted.**

**INTRODUCTION**

For most of us, vision is such an everyday occurrence that we seldom think to wonder how we are able to see the objects that surround us. Yet the vision process is a complex one. It begins with the light that enters the eye and strikes the retina. The light causes an isomerization, or change in molecular arrangement, to all-trans-retinal. The new form of retinal does not fit as well into the protein, and so a series of conformational changes in the protein begins. As the protein changes its conformation, it initiates a cascade of biochemical reactions that

Applications of Solar Light Induc x +

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## Applications of Solar Light Induced AOP in Detoxification of Contaminated Water

**Brijesh Pare<sup>1</sup> Satish Piplode<sup>2</sup> Vaishali Joshi<sup>3</sup> Veer Singh Barde<sup>4</sup>**

<sup>1</sup>Laboratory of Photocatalysis, P. G. Department of Chemistry Govt. Madhav Science P. G. College, Ujjain (MP) INDIA

**Abstract –** *In recent years, there has been a tremendous amount of research and development in the area of photocatalysis, especially heterogeneous photocatalysis. These are Advanced Oxidation Processes (AOPs), characterized by an important feature of production of OH radicals. This paper reviews the use of sunlight to produce the OH radicals by different photocatalysis and photo-Fenton process. The paper also summarizes the research carried out related to solar photocatalytic degradation of water contaminants such as pesticides.*

**Keywords:** AOP, Pollutants, Solar light, Degradation, Photocatalysis.

---

**INTRODUCTION**

Persistent organic chemicals are present as pollutants in wastewater effluent from industrial manufacturers and normal households, and in landfill leachates. They can be found in ground water wells and surface waters. In all cases they have to be removed to protect

a wide-band gap semiconductor and addition of H<sub>2</sub>O<sub>2</sub> to dissolved iron salts, respectively, and irradiation with UV-vis light. Both processes are of special interest since sunlight can be used for their [3-5]

The publications regarding the photocatalytic process

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## Laser Technology and Its Application in Today's World

**Dr. Manmeet Kaur Makkad**

Professor (Chemistry) Govt. Madhav Science PG College

**INTRODUCTION**

The basic concepts of laser were first given by an American scientist, Charles Hard Townes and two Soviet scientists, Alexander Mikhailovich Prokhorov and Nikolai Gennediyevich Basov who shared the coveted Nobel Prize (1964). However, TH Maiman of the Hughes Research Laboratory, California, was the first scientist who experimentally demonstrated laser by flashing light through a ruby crystal, in 1960.

Lasers are devices that produce intense beams of light which are monochromatic, coherent, and highly collimated. The wavelength (colour) of laser light is extremely pure (monochromatic) when compared to other sources of light, and all of the photons (energy) that make up the laser beam have a fixed phase relationship (coherence) with respect to one another.

It is the laser light energy and power delivered in a narrow directional beam, and, also, monochromaticity, coherence, and collimation, i.e., properties which, as against the conventional light source, provide a better possibility of intervention and greater impact given by the multiple power of laser radiation.

Let us start with the application of laser light in medicine because this was the first field to make use of laser radiation.

**Lasers in medicine**

The ruby laser was verified in practice immediately after it had become operational, namely in ophthalmology [in retina surgery], and in dermatology [to remove pigmentation spots]. Medical doctors were

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**GREENHOUSE TECHNOLOGY**

**Shakuntala Pandey<sup>1</sup>, Anil Pandey<sup>2</sup>**  
<sup>1</sup>Govt. M.V.M., Ujjain (M.P.)  
<sup>2</sup>Govt. College, Khachrod (M.P.)



**INTRODUCTION**

Growing plants is both an art and a science. About 95% of plants, either food crops or cash crops are grown in open field. Since time immemorial, man has learnt how to grow plants under natural environmental conditions. In some of the temperate regions where the climatic conditions are extremely adverse and no crops can be grown, man has developed methods of growing some high.

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**Photonix, System and Components**

**Dr. (Mrs.) Shakuntala Pandey<sup>1</sup> Dr. Anil Pandey<sup>2</sup>**  
<sup>1</sup>Professor, Govt. Madhav Science College, Ujjain  
<sup>2</sup>Professor, Govt. Vikram College, Khachrod Distt. Ujjain

**INTRODUCTION**

Photonix is the science of light. It is the technology of generating, controlling, and detecting light waves and photons, which are particles of light. The characteristics of the waves and photons can be used to explore the universe, cure diseases, and even to solve crimes. Scientists have been studying light for hundreds of years. The colours of the rainbow are only a small part of the entire light wave range, called the electromagnetic spectrum. Photonix explores a wider variety of wavelengths, from gamma rays to radio, including X-rays, UV and infrared light.

It was only in the 17<sup>th</sup> Century that Sir Isaac Newton showed that white light is made of different colors of light. At the beginning of the 20<sup>th</sup> Century Max Planck and later Albert Einstein proposed that light was a

their passion for this field to young people and the general public. Photonics opens a world of unknown and far reaching possibilities limited only by lack of imagination.

Photonics is the science of light (Photon) generation, detection, and manipulation through emission, transmission, modulation, signal processing, switching amplification, and detection sensing. Though covering all lights's technical applications over the whole spectrum.

**HISTORY OF PHOTONICS**

The word 'photonics' is derived from the Greek word "photon" meaning light, it appeared in the late 1960s to describe a research field whose goal was to use light to perform functions, that traditionally fell within

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**Journal of Advances in Science and Technology**  
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## Photonics and its Economic Impact

**Pratibha Namdev**

Assistant Professor, P. G. Department of Chemistry, Govt. Madhav Science College Ujjain (M. P.) INDIA-456011

**Abstract – Photonics is the science of light. It is the technology of generating, controlling, and detecting light waves and photons, which are particles of light. The properties of light in general and of laser light in particular, make light a tool uniquely suited for all these classes of applications. Businesses in the field of photonics and light-based technologies work on solving key societal challenges, such as energy generation and energy efficiency, healthy ageing of the population, climate change, and security. Photonic technologies have major impact on the world economy with a current global market of €30 billion and projected market value of over €600 billion in 2020. Growth in the photonics industry more than doubled that of the worldwide GDP (gross domestic product) between 2005 and 2011.**

**Keywords: Photonics, Light, Light Based Techniques, Economic Impact of Light.**

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**INTRODUCTION**

Light and color have fascinated the mankind from its early beginning. We see the optical instruments of all the human eye the history of human kind is dotted with attempts to understand light, control it and use it to better human lives

**WHAT IS PHOTONICS**

**PHOTONICS: THE SCIENCE OF HARNESSING LIGHT**

It was the development of the laser in the 1960's and of the low-loss optical fibers that placed Optics at the center of the next technological revolution, an opened the door of a new age in technology, the age of Photonics. Since light is made up of photons – the fundamental particle of light and a fundamenta

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**STUDY OF PHYSICOCHEMICAL PARAMETERS RIVER KHAN**

**Dwivedi H.S., Malik Bhawna, Dwivedi P.**  
Govt. Madhav Science College, Ujjain (M.P.)

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**ABSTRACT**

Water quality is closely linked to water use and to the state of economic development. Water pollution occurs when unwanted pollutants are discharged directly or indirectly into water bodies without adequate treatment to remove harmful compounds. Water pollution affects plants and organisms living in water bodies and also to the natural biological communities. The present study is to assess the quality of river Khan at Triveni, Ujjain. Khan River flows from Indore via Sanwer it reaches Ujjain and joins Kshipra at Triveni. There are several industries in Indore, which throw their effluents in the river and it receives untreated sewage, drainage, run off from farms, from the villages which are situated at the bank of this river. Though Phangarh

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Impact of Chemical Fertilizer and Organic Manure on the Germination and Growth of Soybean (Glycine max L.)

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Vol 31, 2015

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**Impact of Chemical Fertilizer and Organic Manure on the Germination and Growth of Soybean (Glycine max L.)**

Muzafer Ahmad Sheikh Pinky Dwivedi H. S. Dwivedi  
Department of Botany, Govt. Madhav Science PG College, Vikram University Ujjain-456010, M.P., India

**Abstract**  
After green revolution chemical fertilizers has been used at a great extent in all the crops which decrease the fertility and profile of the soil. Due to various side effects of chemical fertilizers, use of organic fertilizers is an alternative method for the improvement of crop production and maintenance of soil fertility. The aim of the present study was to determine the effects of chemical fertilizer and organic manure on the growth of soybean crop. A total of ten different treatments of both organic manure and chemical fertilizer were used. The various parameters - seed germination, seedling survival, root length and shoot length and seedling height was measured in the present investigation. The results revealed that germination percentage showed increment in nearly all the treatments as compared to the control sets except at highest dose of NPK fertilizer which showed little decrease in germination percentage and was found maximum (97.33%) at optimum dose of vermicompost. The results also showed that survival rate was higher in all treatments than control except at the highest dose of NPK fertilizer in which the survival rate was found minimum (74.38%). Also the root length and seedling height was maximum at the optimum dose of Vermicompost (20%) treated plants and was found minimum in the highest dose (300gm) of NPK fertilizer. The results revealed that the chemical fertilizers at higher doses have deleterious effects on plant growth and development. Organic manures at very high doses checks plant growth but

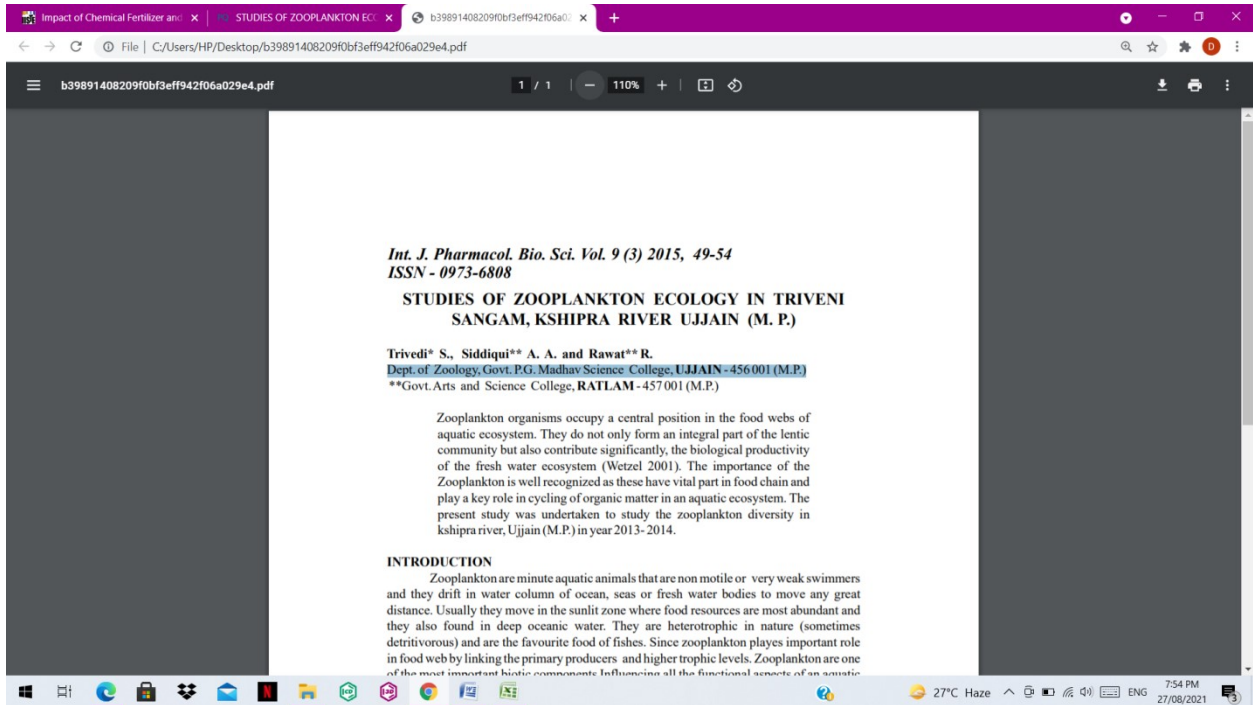
New York Science Journal 2015;8(8) <http://www.sciencepub.net/newyork>

**Pesticide Scenario of India with particular reference to Madhya Pradesh: A review**

Khanday Arshid Ahmad \* Dwivedi H.S. \*\* and Dwivedi P. \*\*

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\*\*Professors, Deptt. of Botany, Govt. M. V. M, Ujjain.  
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**Abstract:** In the agricultural areas of the world, there is an increasing concern about the effects of widespread use of pesticides. Since there is no certain demarcation to show whether they ultimately are productive or harmful, the present review discusses the different aspects of chemical pesticides in Indian agriculture with particular reference to Madhya Pradesh. The review provides a brief history of pesticides, the benefits, hazards and the persistence potential of these chemicals. Present scenario of their use and importance in attaining self sufficiency in cereal grain yield is also discussed. In addition to all this, the regulatory framework that functions to keep a check on use of banned chemicals and to approve and regulate the supply of viable products has also been evaluated. The inclination of Indian agriculturalists towards the use of ecologically favorable techniques like the use of IPM is also documented. The review suggests conceptualization of ill effects of the overuse of pesticides within the farmer community as the main weapon to bring down the application of chemical pesticides. Economical availability of efficient sprayers, graduated containers, regular field checkups and promotion of IPM also among marginal farmers will help minimize the effects on non target organisms. Also we need to provide water proof clothing with resistant masks and gloves for applicators and in case of emergency antidotes. Focus should be on species specific non resistant pesticides with minimum half life so that soil integrity is also maintained.  
[Khanday Arshid Ahmad, Dwivedi H.S. and Dwivedi P. **Pesticide Scenario of India with particular reference to Madhya Pradesh: A review.** *N Y Sci J* 2015;8(8):69-761. (ISSN: 1554-0200). <http://www.sciencepub.net/newyork>.





Impact of Chemical Fertilizer and ... x STUDIES OF ZOOPLANKTON EC... x Determination of Zooplanktons E... x

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Published in Journal

Journal of Advances in Science and Technology [JAST] (Vol:10/ Issue: 21)  
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**Authors:**  
Dr. (Smt.) Seema Trivedi,

**Subjects:**  
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**Journal of Advances in Science and Technology**  
Vol. 10, Issue No. 21, February-2016, ISSN 2230-9659

## Determination of Zooplanktons by Using Laser Counters

**Dr. (Smt.) Seema Trivedi**  
Professor, Zoology, Govt. M.V.M. Ujjain

---

Optical Plankton Counter (OPC) provides a method for easy and fast listing of zooplankton based on their body size. It is and can be used in many marine environments and lakes. The OPC can be used to determine the size and structure zooplanktons lakes. But many difficulties arise when we compare OPC estimates of zooplankton abundance with traditional samples. OPC estimates can agree with, overestimate, or underestimate zooplankton abundance and biomass compared with traditional net samples. Many causes can attribute to discrepancies between net and OPC densities. Coincident counts, in which two or more particles are counted together as one large particle, are considered to be a big problem.

The next generation of the OPC, the Laser OPC or LOPC contains the necessary modifications to

It is believed that phytoplankton does not affect comparison of zooplankton biomass estimates and that phytoplankton is not well detected by the OPC. It is also stated that in situ use of LOPC should be done cautiously.


The LOPC has also overcome the concerns of incorrect volume estimation and coincident count that were present in its predecessor, the OPC. It is found that coincident counts influence the OPC counts of zooplankton abundance. There are no such problems present in the LOPC, and this suggests that the LOPC is accurately counting all particles in the water.

The LOPC and its lab circulator are currently used and can be used in the future with great confidence to


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[Social Issues and Environmental Problems, Vol.3 (Iss.9:SE): Sep, 2015] ISSN- 2350-0530(O) ISSN- 2394-3629(P)  
Impact Factor: 2.035 (I2OR)  
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### DETECTION OF HEPATITIS ANTIGEN AND ANTIBODY IN SERUM OF FEMALE HUMAN POPULATION

**Rekha Khanna**  
Madhav Science P.G. Collage, Ujjain

---

**ABSTRACT**

Immunization with hepatitis B (HB) vaccine is highly effective; however, more needs to be learned about the duration of protection and the need of booster dose. Present study suggest that age of vaccination is very important also it is observed that there is waning effect of vaccine after a long period. Our study throw light on the reliability of qualitative and quantitative tests to observe seropositivity of HBs antibodies. Qualitative detection of HBsAg was done with the help of chromatographic Hepacard method. For HBsAb detection we have done Immunochromatographic assay (Western blotting). In order to monitor successful vaccination, chemiluminescent method is used to determine quantitatively HBsAb in the serum. The chromatographic methods are sensitive for the presence of antibody titer in serum below 100 mIU/ml. Therefore Enzyme linked chemiluminescent method is very sensitive for quantitative determination of HBsAb titre and thereby informative for the requirement of booster dose of vaccination.

## Screenshots of research papers published during 2016-17

This screenshot shows a research paper titled "Antibacterial properties of amino acid functionalized silver nanoparticles decorated on graphene oxide sheets" published in *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Volume 181, 15 June 2017, Pages 47-54. The authors are Kumudini Chandraker, Rekha Nagwanshi, S.K. Jadhav, Kallol K. Ghosh, and Manmohan L. Satnam. The paper is available on ScienceDirect. The interface includes a navigation menu on the left with sections like Outline, Highlights, Abstract, Graphical abstract, Keywords, and Figures (7). The main content area displays the title, authors, journal information, and a DOI link. A right sidebar provides recommended articles, citing articles (25), and article metrics (2 citations, 2 exports-saves, 36 readers). The browser's taskbar at the bottom shows the system time as 8:44 PM on 27/08/2021.

This screenshot shows a research paper titled "Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III)" published in *Journal of Fluorescence*, 28 Dec 2016, 27(3):781-789. The authors are Vaishanav SK, Korram J, Pradhan P, Chandraker K, Nagwanshi R, Ghosh KK, and Satnam ML. The paper is available on the publisher's website. The interface includes a navigation menu on the left with sections like Abstract, Full text, References, Citations & Impact, and Similar Articles. The main content area displays the title, authors, journal information, and a DOI link. The abstract text is visible, describing the development of an L-cysteine capped CdTe Quantum dot based optical sensor for the fluorometric detection of arsenic (III) in real water sample. The calibration curve was linear over 2.0 nM-0.5 μM arsenic with limit of detection (LOD) of 2.0 nM, correlation coefficient ( $r^2$ ) of 0.9698. A cookie consent banner is visible at the bottom of the page.

This screenshot shows the same research paper as the previous one, but with an author information popup for Rekha Nagwanshi. The popup displays her affiliation: Department of Chemistry, Govt. Madhav Science P. G. College, Ujain, MP, 456010, India. It also includes a search function for articles by ORCID and a link to her profile. The abstract text is partially visible, describing the development of an L-cysteine capped CdTe Quantum dot based optical sensor for the fluorometric detection of arsenic (III) in real water sample. The calibration curve was linear over 2.0 nM-0.5 μM arsenic with limit of detection (LOD) of 2.0 nM, correlation coefficient ( $r^2$ ) of 0.9698, and relative standard deviation (RSD) of 5.2%. The paper is available on the publisher's website. A cookie consent banner is visible at the bottom of the page.



Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III).

Vaishanav SK<sup>1</sup>, Korram J<sup>1</sup>, Pradhan P<sup>1</sup>, Chandraker K<sup>1</sup>, Nagwanshi R<sup>2</sup>, Ghosh KK<sup>1</sup>, Satnami ML<sup>1</sup>

**Author information**

Journal of Fluorescence, 28 Dec 2017  
DOI: 10.1007/s10895-016-2011-0

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**Abstract**

Arsenic (As<sup>3+</sup>) is a hazardous and ubiquitous element; hence the quantitative detection of arsenic in various kinds of environmental sample is an important issue. Herein, we reported L-cysteine capped CdTe Quantum dot based optical sensor for the fluorometric detection of arsenic (III) in real water sample. The method is based on the fluorescence quenching of QDs with the addition of arsenic solution that caused the reduction in fluorescence intensity due to strong interaction between As<sup>3+</sup> and L-cysteine to form As(Cys)<sub>3</sub>. The calibration curve was linear over 2.0 nM-0.5 μM arsenic with limit of detection (LOD) of 2.0 nM, correlation coefficient (r<sup>2</sup>) of 0.9698.

**Rekha Nagwanshi**  
Department of Chemistry, Govt. Madhav Science P. G. College, Ujjain, MP, 456010, India.  
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Mn<sup>2+</sup> doped-CdTe/ZnS modified fluorescence nanosensor for detection of glucose

Sensors and Actuators B: Chemical  
Volume 245, June 2017, Pages 196-204

Sandeep K. Vaishanav<sup>a</sup>, Jyoti Korram<sup>a</sup>, Rekha Nagwanshi<sup>b</sup>, Kallol K. Ghosh<sup>a</sup>, Manmohan L. Satnami<sup>a, \*</sup>

<sup>a</sup> School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, C.G. 492010, India  
<sup>b</sup> Department of Chemistry, Govt. Madhav Science P. G. College, Ujjain, M.P. 456010, India

Received 23 August 2016, Revised 11 January 2017, Accepted 20 January 2017, Available online 23 January 2017.

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**Highlights**

- Mn<sup>2+</sup>-doped-CdTe/ZnS modified nanosensor for sensitive detection of glucose in human biological fluids has been developed.

**Outline**

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Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 180, 2017, pp. 7-12  
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Journal of Molecular Liquids, Volume 243, 2017, pp. 1-6  
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ELSEVIER Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy Volume 179, 15 May 2017, Pages 155-162

### Surface plasmon resonance based spectrophotometric determination of medically important thiol compounds using unmodified silver nanoparticles

Sandeep K. Vaishnav<sup>a, c</sup>, Kuleshwar Patel<sup>a</sup>, Kumudini Chandraker<sup>a</sup>, Jyoti Korram<sup>a</sup>, Rekha Nagwanshi<sup>b</sup>, Kallol K. Ghosh<sup>a</sup>, Manmohan L. Satnam<sup>a, c</sup>

<sup>a</sup> School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, C.G., 492010, India  
<sup>b</sup> Department of Chemistry, Govt. Madhav Science P. G. College, Ujjain, M.P., 456010, India  
<sup>c</sup> State Forensic Science Laboratory, Tikra Para, Raipur, C.G., 492013, India

Received 8 October 2016, Revised 17 February 2017, Accepted 19 February 2017, Available online 21 February 2017.

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ELSEVIER Journal of Molecular Structure Volume 1117, 5 August 2016, Pages 300-310

### Protein nanoparticle interaction: A spectrophotometric approach for adsorption kinetics and binding studies

Sandeep K. Vaishnav<sup>a</sup>, Kumudini Chandraker<sup>a</sup>, Jyoti Korram<sup>a</sup>, Rekha Nagwanshi<sup>b</sup>, Kallol K. Ghosh<sup>a</sup>, Manmohan L. Satnam<sup>a, c</sup>

<sup>a</sup> School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, C.G., 492010, India  
<sup>b</sup> Department of Chemistry, Govt. Madhav Science P. G. College, Ujjain, M.P., 456010, India  
<sup>c</sup> State Forensic Science Laboratory, Tikra Para, Raipur, C.G., 492013, India

Received 27 October 2015, Revised 10 February 2016, Accepted 25 March 2016, Available online 26 March 2016.

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Influence of octanohydroxamic acid on the association behavior of cationic surfactants: Hydrolytic cleavage of phosphate ester

Journal of Molecular Liquids  
Volume 221, September 2016, Pages 805-814

Manmohan L. Satnam<sup>a</sup>, Hitesh K. Dewangan<sup>a</sup>, Neha Kandpal<sup>a</sup>, Rekha Nagwanshi<sup>b</sup>, Kallol K. Ghosh<sup>a</sup>

<sup>a</sup> School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh 492010, India  
<sup>b</sup> Department of Chemistry, Govt. Madhav Science P. G. College, Ujjain, M. P. 456010, India

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Ramchander Merugu et al /International Journal of Advances in Scientific Research 2016; 2(12): 191-193. 191

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Journal DOI: [10.7439/ijasr](https://doi.org/10.7439/ijasr) Research Article

**Molecular docking studies of deacetyl bisacodyl with intestinal sucrase-maltase enzyme**

Ramchander Merugu<sup>1</sup>, Uttam Kumar Neerudu<sup>2</sup>, Karunakar Dasa<sup>3</sup>, Kalpana V. Singh<sup>4\*</sup>

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Reactivity of Hydroxamate Ions in Cationic Vesicular Media for the Cleavage of Carboxylate Esters

Original Article

Neha Kandpal, Hitesh K. Dewangan, Rekha Nagwanshi, Sandeep K. Vaishanav, Kallol K. Ghosh, Manmohan L. Satnami

First published: 22 December 2016

The online version of this article (doi:10.1002/s11743-016-1919-3) is available to authorized users.

Department of Chemistry, Government Madhav Science P. G. College, Ujjain, Madhya Pradesh, 456010 India

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**Abstract**

The hydrolysis of carboxylate esters viz. *p*-nitrophenyl acetate (PNPA), *p*-nitrophenyl butyrate (PNPB) and *p*-nitrophenyl octanoate (PNPO) in the presence of cationic vesicles of the surfactant dioctadecyldimethylammonium bromide (DODAC) by different hydroxamate ions i.e. acetoxyhydroxamate (AHA<sup>-</sup>), benzoyhydroxamate (BHA<sup>-</sup>) and salicylhydroxamate (SHA<sup>-</sup>) were studied. The kinetic data was supported by spectrophotometric measurements. The effects of vesicular size on the reaction have been discussed. The differential reactivity under endo- and exovesicular conditions has also been evaluated. Critical vesicle concentrations (CVC) of cationic vesicular surfactants were determined from conductometric and fluorimetric measurements at 300 K. Fluorescence probe pyrene and pyrene-1-carboxaldehyde have been used for determination of CVC. Further, thermodynamic parameters viz. Standard Gibb's energy ( $\Delta G^\circ$ ), enthalpy ( $\Delta H^\circ$ ) and entropy ( $\Delta S^\circ$ ) of reaction has also been evaluated within

Volume 20, Issue 2  
March 2017  
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Mixed micelles of cationic surfactants and bile acid salts in aqueous media  
Alex George, Sambhav Vora, Arti Dogra, Hemangi Desai, Pratap Bahadur  
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Mixed Cationic Surfactant Vesicles in (Dioctadecyldimethylammonium Bromide)/NaCl and (Dioctadecyldimethylammonium Chloride)/NaBr Aqueous Dispersions  
Eloi Feitosa, Monique Lemos, Renata D. Adati  
Journal of Surfactants and Detergents

A Systematic Study of Mixed Surfactant Solutions of a Cationic Ester-Bonded Dimeric Surfactant with Cationic, Anionic and Nonionic Monomeric Surfactants in Aqueous Media

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ZIKA VIRUS SERINE PROTEASE

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Research Article

**ZIKA VIRUS SERINE PROTEASE COMPLEX (NS2B-NS3) INHIBITION BY 2-AMINO-5-[[[(1Z)-AMINO [[[(Z)-BENZOYL] IMINO]] METHYL] AMINO]-N-(5-AMINO-7-[[[CARBAMOYL (PHENYL) METHYL] AMINO]-6-OXOHEPTYL] PENTANAMIDE, *IN SILICO* STUDIES**

KALPANA VIRENDRA SINGH<sup>1\*</sup>, RAMCHANDER MERUGU<sup>2</sup>, JEEVEN SINGH SOLANKI<sup>1</sup>

<sup>1</sup>Department of Chemistry and Pharmaceutical Chemistry, Madhav Science P.G. College, Ujjain, Madhya Pradesh, India. <sup>2</sup>Department of Biochemistry, Mahatma Gandhi University, Nalgonda, Telangana, India. Email: singhkalpana297@gmail.com

Received: 25 January 2016, Revised and Accepted: 16 February 2017

**ABSTRACT**

**Objective:** The present *in silico* study is taken to report 2-amino-5-[[[(1Z)-amino [[[(Z)-benzoyl] imino]] methyl] amino]-N-(5-amino-7-[[[carbamoyl (phenyl) methyl] amino]-6-oxoheptyl] pentanamide as Zika virus (ZIKV) NS2B-NS3 protease inhibitor.

**Methods:** *In silico* studies performed on online docking servers. NS2B-NS3 serine protease from ZIKV with PDB ID: 5GJ4 a hydrolase with total structure weight of 102878.54 is selected as the target. Docking server is used for carrying out docking calculations. Lamarckian genetic algorithm and the Solis and Wets local search methods are used for performing docking simulations. Free energy calculations, hydrogen bond (HB) formation, polar and hydrophobic interactions and HB plot are studied in this study.

**Results:** Binding pocket is found on a serine protease NS2B chain A. Binding site predictions propose NKK as the suitable ligand for binding, which has structure closely related to the proposed ligand 2-amino-5-[[[(1Z)-amino [[[(Z)-benzoyl] imino]] methyl] amino]-N-(5-amino-7-[[[carbamoyl (phenyl) methyl] amino]-6-oxoheptyl] pentanamide. Free energy of binding is -4.08 kcal/Mol and inhibition constant (K<sub>i</sub>) is very less 1.02 mm

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 e-ISSN: 2278-5736. Volume 9, Issue 8 Ver. 1 (Aug. 2016), PP 54-60  
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## Non Equilibrium Thermodynamic Studies Through Activation Parameters In Transport Phenomenon Across Ion Exchange Membranes.

Dr. Kalpana Virendra Singh  
*P.G. Department of Chemistry and Pharmaceutical Chemistry Govt. Madhav Science P.G.College Ujjain (M.P.)*

**Abstract:** Transport phenomenon across membranes are very important as they work as guiding principles for drug permeation studies across biological membranes. Classical thermodynamics is confined to the systems of equilibrium i.e. to reversible processes only and cannot be applied to the irreversible systems where variables defining the systems are changing with time and situation. The utility of irreversible thermodynamics lies in the evaluation of entropy production by use of the equation for conservation of mass energy and Gibb's equation. In the present investigation membrane is prepared by mechanical compression of cation exchange resin Indion 236 with adhesive araldite and has been characterized in terms of membrane constant  $A$ , Filtration Coefficient  $L_p$  for different concentrations of aqueous solutions of glucose and sucrose at different temperatures have been determined. The present study tries to calculate values of Gibb's free energy, entropy and enthalpy for transport across ion exchange membrane using values of filtration coefficient  $L_p$ , equivalent pore radius, concentration of solutes and temperature of study.

**Keywords:** Transport, non-equilibrium thermodynamics, Gibb's free energy, entropy, enthalpy


### I. Introduction

Transport phenomenon across natural and artificial membranes arise because of the urge of a system to move from non equilibrium to equilibrium state. Transport phenomenon across membranes may be active transport, passive transport, facilitated transport or group translation depending on the nature of membrane,

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## A Review Paper of the Laws of Thermodynamics to Apply the Human Bodies

D.Bhalse<sup>1</sup>, Rashmi Kame<sup>2</sup>, Pramod Malviya<sup>3</sup>, Pradeep Sharma<sup>4</sup> and A.Mishra<sup>5</sup>

<sup>1,2,5</sup> School of Physics, DAVV Indore, India  
<sup>3</sup>Govt.College, Nagda, Vikram University Ujjain India  
<sup>4</sup>Govt.Holkar Science College, Indore, India

Received: 18 Aug 2016      Revised: 25 Aug 2016      Accepted: 20 Sep 2016      Published: 30 Sep 2016

**Abstract-** The Second law governs changes that act in the direction in which entropy increases. We will now see through a detailed examination how the laws of thermodynamics relate to the energetic of the body. Metabolism involves the chemical processes in the body in which energy is transferred between various chemical compounds and in which thermal energy is generated. If the rate of metabolic reactions increases, then the rate of energy generation also increases. People require certain amounts of energy to achieve certain tasks. This has implications, for example, for athletic performance and survival. A sedentary man can produce energy of the order of 0.07 kJkg<sup>-1</sup>min<sup>-1</sup> (which is about 80 W for a 70 kg-man).

**Key word** –Laws of the thermodynamics, Energy, Metabolism

### Introduction

Metabolism is the total of all the chemical processes that occur in the cells of a body. It consists of anabolism in exercise. Typical energy dissipations are: sleeping: 75 W, sitting: 80-100 W, walking: 150-450 W, running hard: 400-1500 W. The average person needs an additional 4200 kJ for a 'normal' workine day: thus make a total requirements of

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January-March 2017  
DOI : <http://dx.doi.org/10.21276/ijcpa>

**International Journal of  
CHEMICAL AND PHARMACEUTICAL  
ANALYSIS**  
eISSN: 2348-0726 ; pISSN : 2395-2466

**Research Article**      **Volume-4**      **Issue-2**      **Article ID: 1148**

**ECO-FRIENDLY AND EFFICIENT SYNTHETIC PROTOCOL FOR BIOLOGICALLY ACTIVE DERIVATIVES OF  
PYRIMIDOPYRIMIDINE USING IONIC LIQUID TEAA: A GREEN AND EFFECTIVE CATALYST**

**Arpan Bhardwaj<sup>1</sup>, Pervaz Ahmad Ganie<sup>2</sup>**

Department of Chemistry, Sadhu Vaswani Autonomous College, Sant Hirdaram Nagar (Bairagarh), Bhopal-462030 (M.P.), India.

*\*Corresponding Author: Email: [pervazgani11@gmail.com](mailto:pervazgani11@gmail.com)*

Received: 11 October 2016 / Revised: 23 October 2016 / Accepted: 31 December 2016 / Available online: 31 March 2017

Paper Title (use style: paper title)

ijiras.com/2017/Vol\_4-Issue\_4/paper\_35.pdf

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Paper Title (use style: paper title)

International Journal of Innovative Research and Advanced Studies (IJIRAS)  
Volume 4 Issue 4, April 2017

ISSN: 2394-4404

**Anti-Dermatophytic Activity Of Catharanthus Roseus L. (Leaves)**

Nisar Ahmed Bhat  
A. Bhardwaj  
Department of Chemistry, Govt. Madhav Science PG  
College Ujjain (M.P.), India

B. K. Tiwari  
Department of Chemistry, B.S. Govt. P.G. College, Joara,  
(M.P.), India

*Abstract: In recent years, there has been increasing interest worldwide in the use of alternative/herbal medicine for the prevention and treatment of fungal diseases. Currently, however, quality-related problems (lack of consistency, safety, and efficacy) seem to be overshadowing the potential genuine benefits of various herbal products for the treatment of fungal diseases. Extracts obtained from many plants have recently gained a great popularity and scientific interest. Since the middle ages, natural plant preparations have been widely used for treatment of fungal diseases. Treatment of the fungal pathogen is becoming increasingly difficult due to antifungal drug resistance, especially with fluconazole, which is a commonly used azole. This paper presents the in vitro activity of medicinal plant extracts and their major compounds against dermatophytes and also a compilation of updated information on medicinal plant extracts with antifungal and*

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International Journal of Innovative Research and Advanced Studies (IJIRAS)  
Volume 4 Issue 3, March 2017

ISSN: 2394-4404

## Anti-Dermatophytic Activity Of Piper Betle Linn. (Leaf Stalk)

Nisar Ahmed Bhat  
A. Bhardwaj  
Department of Chemistry, Govt. Mahdavi Science PG  
College, Ujjain (M.P.) India

B. K. Tiwari  
Department of Chemistry, B.S. Govt. P.G. College, Joara,  
(M.P.) India

**Abstract:** In recent years, there has been increasing interest worldwide in the use of alternative/herbal medicine for the prevention and treatment of fungal diseases. Currently, however, quality-related problems (lack of consistency, safety, and efficacy) seem to be overshadowing the potential genuine benefits of various herbal products for the treatment of fungal diseases. Extracts obtained from many plants have recently gained a great popularity and scientific interest. Since the middle ages, natural plant preparations have been widely used for treatment of fungal diseases. Treatment of the fungal pathogen is becoming increasingly difficult due to antifungal drug resistance, especially with fluconazole, which is a commonly used azole. This paper presents the in vitro activity of medicinal plant piper betle (Leaf stalk) methanolic extracts and their major compounds against dermatophytes and also a compilation of updated information on medicinal

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International Journal of Scientific Research in  
Physics and Applied Sciences  
Volume-5, Issue-1, pp.1-7, February (2017)

Research Paper  
E-ISSN: 2348-3423

## X-Ray K-Absorption Near Edge Structural Studies of Mixed Ligand Copper II With Pyridine-2-Carboxamide and Amino Acids

P.K.Malviya<sup>1</sup>, Varsha Malviya<sup>2\*</sup> and Rashmi Kame<sup>3</sup>

<sup>1,2,3</sup>School of physics, DAVV, Indore, India  
Available online at: [www.isroset.org](http://www.isroset.org)

Received 22<sup>nd</sup> Dec 2016, Revised 19<sup>th</sup> Jan 2017, Accepted 5<sup>th</sup> Feb 2017, Online 28<sup>th</sup> Feb 2017

**Abstract**—This paper describes spectroscopic studied of copper (II) complexes with amino acids as ligands. The samples of mixed ligand Copper II with Pyridine -2-Carboxamide and Amino acids were prepared by chemical root method. X-ray absorption spectra of mixed ligand copper complexes at the K-edge of copper have been recorded at the recently developed EXAFS beam line set-up at the Indus-2 synchrotron source at RRCAT, Indore (M.P). The experimental data has been analysed using XAFS data analysis program Athena and the computer software Origin 6.0 professional. The k-absorption ( $E_k$ ) and the energy of the principal absorption maximum ( $E_A$ ) of copper metal and its complexes, edge width, percentage covalency and effective nuclear charge were determined in the present study.

**Keywords**—Copper complexes, Athena, Origin 6.0 professional

### I. INTRODUCTION

(RRCAT), Indore, India and is called dispersive EXAFS beamline BL-8. This beamline has been recently commissioned at the 2.5 GeV Indus-2 synchrotron radiation

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Int. J. Adv. Res. Biol. Sci. (2016), 3(9): 13-20

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**International Journal of Advanced Research in Biological Sciences**  
ISSN: 2348-8069  
www.ijarbs.com

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DOI: 10.22192/ijarbs Coden: IJARQG(USA) Volume 3, Issue 9 - 2016

Research Article 

DOI: 10.22192/ijarbs.2016.03.09.002

**Utilization of three obnoxious weeds (*Parthenium hysterophorus*,  
*Lantana camara* and *Eichhornia crassipes*) through  
vermicomposting and their response on vegetative growth of  
Soybean crop.**

Sharma Rajeev\*, Dwivedi H.S. and Dwivedi P.  
Dept. of Botany, Govt. Madhav Science P.G. College, Ujjain (M.P.)  
\*Corresponding author: rksharma50180@gmail.com

---

**Abstract**

In the present study, three major obnoxious weed species of this area viz- *Parthenium hysterophorus*, *Lantana camara* and *Eichhornia crassipes* were selected for vermicomposting. Vermicomposting was performed in shadow area at botanical garden of Govt. Madhav Science P.G. College, Ujjain (M.P.). After preparation of all three types of vermicomposts, the effects of these composts on vegetative growth of Soybean (*Glycin max* var. JS-9560) were studied in its particular seasons. Studied parameters of vegetative growth were increased significantly in all the three vermicomposts in comparison to control.

**Keywords:** Vermicomposting, *Parthenium hysterophorus*, Soybean, *Lantana camara*, weeds, *Eichhornia crassipes*.

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Int. J. Adv. Res. Biol. Sci. (2016), 3(7): 21-27

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**International Journal of Advanced Research in Biological Sciences**  
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Volume 3, Issue 7 - 2016

Research Article 

SOI: <http://s-o-l.org/1.15/ijarbs-2016-3-7-4>

**Studies on the physico-chemical status of Vishnu Sagar water body  
at Ujjain city under anthropogenic influences**

Sharma Pradeep, Dwivedi H.S., Dwivedi P. and Sharma Rajeev\*  
Dept. of Botany, Govt. Madhav Science P.G. College, Ujjain (M.P.)  
\*Corresponding author: rksharma50180@gmail.com

---

**Abstract**

Physico-chemical status of Vishnu Sagar at Ujjain (M.P.) in India was studied in the year 2010-11. The pond is biotically affected by various anthropogenic factors. In the present study water quality parameters studied were turbidity, pH, DO, BOD, COD, total alkalinity, TDS, total hardness, total salinity and nitrate. The results indicate that pond is in polluted conditions. This pond receives a large amount of sewage in rainy season. High biodiversity of macrophytes was observed during study period.

**Keywords:** Physicochemical, DO, BOD, Water quality, Nitrates, Vishnu Sagar.

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**Introduction**

Water supports life on earth and around which the entire fabric of life is woven. Ponds as sources of population growth, agriculture and industrial development has forced environmentalists to

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Int. J. Adv. Res. Biol. Sci. (2016), 3(8): 13-17

**International Journal of Advanced Research in Biological Sciences**  
ISSN: 2348-8069  
www.ijarbs.com  
Volume 3, Issue 8 - 2016

Research Article

SOI: <http://s-o-I.org/1.15/ijarbs-2016-3-8-3>

**A study on Macrophytic diversity in Vishnu Sagar water body at Ujjain (M.P.) India**

**Sharma Pradeep, Dwivedi H.S., Dwivedi P. and Sharma Rajeev\***  
Dept. of Botany, Govt. Madhav Science P.G. College, Ujjain (M.P.)  
\*Corresponding author: [rksharma50180@gmail.com](mailto:rksharma50180@gmail.com)

**Abstract**

The present study deals with the investigation of macrophytic diversity of Vishnu Sagar water body at Ujjain (M.P.) India. Macrophytic diversity of Vishnu Sagar was studied in the year 2010-11. This pond is biotically affected by various anthropogenic factors. This pond receives a large amount of sewage in rainy season. High diversity of macrophytes was observed during study period. Eleven macrophytic species *Spirodela polyrrhiza*, *Lemna trinervis*, *Eichhornia crassipes*, *Ipomoea aquatica*, *Limnophila sessiliflora*, *Elodea sp.*, *Nuphar lutea*, *Nymphaea rubra*, *Nelumbo nucifera*, *Trapa natans* and *Cyperus rotundus* were reported in this water body.

**Keywords:** Macrophytic diversity, Vishnu Sagar, *Eichhornia crassipes*, *Nuphar lutea*, *Ipomoea aquatica*.

**Introduction**

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Int. J. Adv. Res. Biol. Sci. (2016), 3(8): 28-35

**International Journal of Advanced Research in Biological Sciences**  
ISSN: 2348-8069  
www.ijarbs.com  
Volume 3, Issue 8 - 2016

Research Article

SOI: <http://s-o-I.org/1.15/ijarbs-2016-3-8-6>

**Water quality assessment of Kshir Sagar water body at Ujjain (M.P.) India.**

**Sharma Pradeep\* and Dwivedi H.S.**  
Dept. of Botany, Govt. Madhav Science P.G. College, Ujjain (M.P.)  
\*Corresponding author: [pratvaibhav01072k9@gmail.com](mailto:pratvaibhav01072k9@gmail.com)

**Abstract**

Present study deals with the investigation of the physico-chemical parameters for making an assessment of water quality of Kshir Sagar which is one of perennial temple pond in Ujjain. Physico-chemical parameters of Kshir Sagar water body at Ujjain (M.P.) India were studied during July 2010 to June 2011. During the study period various Physico-chemical parameters (turbidity, pH, DO, BOD, COD, total alkalinity, TDS, total hardness, total salinity and nitrate) were analyzed. Investigated all physico-chemical parameters indicate that water of Kshir Sagar water body is highly polluted due to its exploitation and disorders of anthropogenic activities.

**Keywords:** Kshir Sagar, BOD, COD, TDS, total hardness, Physico-chemical parameters.

**Introduction**

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Int. J. Adv. Res. Biol. Sci. (2016), 3(8): 89-93

**International Journal of Advanced Research in Biological Sciences**  
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 Volume 3, Issue 8 - 2016

Research Article

Barcode: 2348-8069

SOI: <http://s-o-I.org/1.15/ijarbs-2016-3-8-14>

**Diversity of Aquatic Macrophytes of Govardhan Sagar water body at Ujjain (M.P.) India**

Sharma Pradeep\* and Dwivedi H.S.

Dept. of Botany, Govt. Madhav Science P.G. College, Ujjain (M.P.)  
 \*Corresponding author: [prativaibhav01072k9@gmail.com](mailto:prativaibhav01072k9@gmail.com)

**Abstract**

In the present study diversity of aquatic macrophytes of Govardhan Sagar water body was investigated in the year 2010-11. This pond is biotical affected by various anthropogenic factors. This pond receives a large amount of sewage in rainy season. It is a high polluted water body with dens macrophytic vegetation. High diversity of aquatic macrophytes was observed during study period in the selected water body. Nine macrophytic species *Eichhornia crassipes*, *Ipomoea aquatica*, *Spirodela polyrrhiza*, *Lemna trineris*, *Limnophila sessiliflora*, *Elodea sp.*, *Wolffia arrhiza*, *Typha angustifolia* and *Ipomoea fistulosa* were reported in Govardhan Sagar water body.

**Keywords:** Macrophytic diversity, Govardhan Sagar, *Eichhornia crassipes*, *Ipomoea aquatic*, *Typha angustifolia*.

**Introduction**

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American Research Journal of Agriculture  
 ISSN (Online) : 2378-9018  
 Volume 3, Issue 1, 14 Pages

AMERICAN RESEARCH JOURNALS  
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Research Article Open Access

**"Comparative Study of Soil Mixed vermicompost and Cattle Dung on the Growth Parameters of *Triticum astivum* (Wheat) and *Faciolus mungo* (Urad) Plant"**

Bhati Praveesh<sup>1</sup>, Shouche Shobha<sup>2</sup>, Jain Sudhir Kumar<sup>3</sup>, Dhundhale Kavita<sup>4</sup>

<sup>1</sup>Former Assit. Professor, Advance College, Ujjain (M.P.), [bhati\\_p212@yahoo.co.in](mailto:bhati_p212@yahoo.co.in)  
<sup>2</sup>Assit. Professor, Govt. Madhav Science PG College, Ujjain (M.P.), [shobha.shouche@gmail.com](mailto:shobha.shouche@gmail.com)  
<sup>3</sup>Reader, SOS in Microbiology, Vikram University, Ujjain (M.P.), [sudhirkjain1@rediffmail.com](mailto:sudhirkjain1@rediffmail.com)  
<sup>4</sup>Research Scholar, Holkar Science College, Indore (M.P.), [kavitajnv01@gmail.com](mailto:kavitajnv01@gmail.com)

Received Date: May 1, 2017 Accepted Date: May 31, 2017 Published Date: July 31, 2017

**Abstract:** The application of vermicompost to improve the physical properties of soils is a promising technology to meet the requirements of high plant growth and cost-effective recovery. Therefore, the aim of this study was to investigate the comparative effect of different proportion of vermicompost and cattle dung mixed soil on *Triticum astivum* (Wheat) and *Faciolus mungo* (Urad) Plant. Different growth parameters viz. germination studies, plant length, dry weight and photosynthetic pigment were analyzed. In the present investigation highest germination percentage, plant length, dry weight of root /shoot and chlorophyll-carotenoid percentage were recorded in 50% soil treated with vermicompost and cattle dung than control soil and other proportions. It has also found that all the selected growth parameters of both Wheat and Urad plant showed significant

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Role of certain Biochemicals In Maintenance of osmotic balance in Philosamia Ricini... 1 / 5 | - 110% + | [ ] [ ] [ ]

ESSENCE - International Journal for Environmental Rehabilitation and Conservation  
Volume VII: No. 2 2016 [81 – 85] [ISSN 0975 - 6272] [www.essence-journal.com]

**Role of certain Biochemicals In Maintenance of osmotic balance in *Philosamia Ricini* during starvation**

Chandorkar, Shuchita; Shouche, Shobha<sup>2</sup> and Pathak, J.P.N.<sup>2</sup>

Received: August 08, 2016 | Accepted: October 10, 2016 | Online: December 31, 2016

**Abstract**  
The impact of starvation was observed in fifth instar larvae of *Philosamia ricini*. Larvae were kept starved for three days under normal temperature and humidity. The haemolymph was taken for the analysis of carbohydrates, proteins and free amino acids. These biomolecules showed a significant decrease in concentration with respect to the control.

**Introduction**  
Insect haemolymph contains a number of solutes, which maintain osmotic balance. Among them organic molecules are very important because they are related to physiology of insect. It is evident that amino acids and protein play an important role to maintain the internal environment of haemolymph in different stages of insect life. They largely affect various metabolic pathways as well as physiological conditions of insect (Edwards,1982). Chen (1962)

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essence-journal.com/wp-content/uploads/Archives/Volume\_VII/Issue\_2/Role-of-certain-Biochemicals-In-Maintenance-of-osmotic-balance-in-Philosamia-Ricini-during-starvation.pdf

Role of certain Biochemicals In Maintenance of osmotic balance in Philosamia Ricini... 1 / 5 | - 110% + | [ ] [ ] [ ]

Larvae were kept starved for three days under normal temperature and humidity. The haemolymph was taken for the analysis of carbohydrates, proteins and free amino acids. These biomolecules showed a significant decrease in concentration with respect to the control.

Among them organic molecules are very important because they are related to physiology of insect. It is evident that amino acids and protein play an important role to maintain the internal environment of haemolymph in different stages of insect life. They largely affect various metabolic pathways as well as physiological conditions of insect (Edwards,1982). Chen (1962) described the presence of various amino acids in seven different orders of insects. Wyatt *et al.* (1955) studied the concentration of sugar, proteins and free amino acids in the silk worm *Bombyx mori* and other species of insect. Treherne (1958) investigated the absorption and metabolism of some sugars in the locust, *Schistocerca gregaria*. Cohen *et al.* (1982) determined the role of free amino acids during dehydration and rehydration of insect which loses water even in mildly stressful conditions. Various forms of stress such as dietary inadequacy (Collet, 1976) starvation (Lim and Lee, 1981) have been shown to influence haemolymph contents. Free amino acid concentration was measured in the haemolymph samples of third instar

**Keywords:** Haemolymph | Starvation | Larvae | Biomolecules

**For Correspondence:**  
<sup>1</sup>Future vision, college Ujjain (M.P.)  
<sup>2</sup>Govt. MVM Ujjain, (M.P.)  
Email: shuchita.chandorkar@gmail.com;  
shobha.shouche@gmail.com

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Original Research Article



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Section: Healthcare  
Sci. Journal  
Impact Factor  
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# CHANGES IN BIOCHEMICAL COMPOSITION IN THE HAEMOLYMPH OF FIFTH INSTAR LARVAE OF *PHILOSAMIA RICINI* DURING THERMAL STRESS

**Shuchita Chandorkar<sup>1</sup>, Shobha Shouche<sup>2</sup>, JPN Pathak<sup>2</sup>**

<sup>1</sup>Assistant Professor, Future Vision, College Ujjain (M.P.) 456010, India; <sup>2</sup>Govt. MVM Ujjain, (M.P.) 456010, India.

## ABSTRACT

Haemolymph of *Philosamia ricini* is a water reservoir which maintains homeostasis. When the insect is exposed to stresses naturally then it passes through various changes in biochemical composition. Fifth instar larvae of eri silk worm *Philosamia ricini* were kept under thermal stress of low and high temperature to observe the changes in carbohydrates, proteins and free amino acids. At high temperature carbohydrates showed a significant increase and a significant decrease at low temperature. Proteins and amino acids showed a significant decrease at high temperature and increase at low temperature.

**Key Words:** Homeostasis, Stress, Haemolymph, Temperature

## INTRODUCTION

by reducing the haemolymph volume up to 60% when the

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## Screenshots of research papers published during 2017-18

The screenshot shows a web browser window displaying an article from the Journal of Surfactants and Detergents. The article title is "Hydrolytic Dephosphorylation of *p*-Nitrophenyl Diphenyl Phosphate by Alkyl Hydroxamate Ions". The authors listed are Neha Kandpal, Hitesh K. Dewangan, Rekha Nagwanshi, Kallol K. Ghosh, Manmohan L. Satnami, and others. The article was first published on 24 March 2018. The abstract discusses the kinetics of the hydrolysis of *p*-nitrophenyl diphenyl phosphate (PNPDP) by hydroxamate ions. A search box for the author's name is visible, and a "Recommended" sidebar on the right lists related articles. The browser's taskbar at the bottom shows the system date and time as 1:52 PM on 28/08/2021.

The screenshot displays a research paper from the International Journal of Engineering Technologies and Management Research (IJETMR). The paper title is "EFFECT OF OPERATIONAL PARAMETER ON PHOTOCATALYTIC DEGRADATION OF OXAMYL PESTICIDE". The authors are Brijesh Pare<sup>1</sup>, Satish Piplode<sup>2\*</sup>, and Vaishali Joshi<sup>3</sup>. Their affiliation is the Laboratory of Photocatalysis, Department of Chemistry, Government Madhav Science P G College, Ujjain, Madhya Pradesh, India. The abstract describes the synthesis of flower-like bismuth oxy chloride (BiOCl) and its photocatalytic activity in degrading Oxamyl (OM) under solar light. The journal's ISSN is 2454-1907 and its DOI is 10.29121/ijetmr.v4.i12.2017.595. A QR code is provided for the article. The browser's address bar shows the URL: granthaalayahpublication.org/ijetmr-ojms/index.php/ijetmr/article/view/IJETMR17-SCIENCEFEST-12/490.

View of EFFECT OF OPERATIONAL PARAMETERS ON PHOTOCATALYTIC DEGRADATION OF TOLUIDINE BLUE UTILIZING BiOCl NANOPLATES IN SOLAR LIGHT



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EFFECT OF OPERATIONAL PARAMETERS ON PHOTOCATALYTIC DEGRADATION OF TOLUIDINE BLUE UTILIZING BiOCl NANOPLATES IN SOLAR LIGHT

1 of 12 Automatic Zoom


[Joshi et. al., Vol.4 (Iss.12: SE): December, 2017]  
[New Frontiers in Science: A Paradigm Shift to Policy Planning]

ISSN: 2454-1907  
DOI: 10.29121/ijetmr.v4.i12.2017.590

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**EFFECT OF OPERATIONAL PARAMETERS ON PHOTOCATALYTIC DEGRADATION OF TOLUIDINE BLUE UTILIZING BiOCl NANOPLATES IN SOLAR LIGHT**

Brijesh Pare<sup>1</sup>, Vaishali Joshi<sup>2\*</sup>, Satish Piplode<sup>2</sup>


<sup>1,2</sup>Laboratory of Photocatalysis, Department of Chemistry, Govt. Madhav Science P. G. College, Vikram University, Ujjain- 456010, India 

**Abstract:**  
*This work is devoted to the study of the effects of various operational parameters such as H<sub>2</sub>O<sub>2</sub>, K<sub>2</sub>S<sub>2</sub>O<sub>8</sub>, NaCl, Na<sub>2</sub>CO<sub>3</sub>, FeCl<sub>3</sub>, Fenton's reagent, O<sub>2</sub>, N<sub>2</sub> purging, effect of other photocatalysts on the photocatalytic degradation of toluidine blue dye by as synthesized nano BiOCl under solar light in following conditions pH= 11, catalyst loading= 30 mg/100ml and initial dye concentration= 4 × 10<sup>-5</sup> mol L<sup>-1</sup>. Nano BiOCl was prepared by a simple hydrolysis method at room temperature and characterized by X-ray diffraction (XRD) and High*

Solar light assisted photocatalytic: x Solar light assisted photocatalytic: x

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 **International Journal of Scientific Research in Physics and Applied Sciences** **Research Paper**  
Volume-5, Issue-5, pp.5-11, October (2017) E-ISSN: 2348-3423

**Solar light assisted photocatalytic degradation of hazardous and highly water soluble pesticide Methomyl using Flower like nano BiOCl**

B. Pare<sup>1</sup>, S. Piplode<sup>2\*</sup>, V. Joshi<sup>3</sup>

<sup>1</sup>Dept. of Chemistry, J. N. S. Govt. College (Vikram University), Shujalpur, India  
<sup>2</sup>Department of Chemistry, Govt. Madhav Science College (Vikram University), Ujjain, India  
<sup>3</sup>Department of Chemistry, Govt. Madhav Science College, Vikram University, Ujjain, India

\*Corresponding Author: satish.piplode@gmail.com  
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Receive 06<sup>th</sup> Aug 2017, Revised 14<sup>th</sup> Aug 2017, Accepted 18<sup>th</sup> Sep 2017, Online 30<sup>th</sup> Oct 2017


**Abstract**—Flower like nano bismuth oxy chloride (BiOCl) was successfully synthesized by a simple hydrolytic method using Bi (NO<sub>3</sub>)<sub>3</sub>·5H<sub>2</sub>O as Bi source material at room temperature. The as-prepared samples were characterized by X-ray diffraction (XRD), High Resolution Field Emission Scanning Electron Microscope (HR FESEM). The results indicated that the as-prepared BiOCl sample is self-assembled hierarchically with nano sheets. The photocatalytic activity of BiOCl was tested on the degradation of the methomyl under solar light irradiation. The results showed that pesticide molecules could be efficiently degraded over BiOCl under solar light irradiation.

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 International Research Journal of Environmental Sciences \_\_\_\_\_ ISSN 2319-1414  
Vol. 7(1), 37-40, January (2018) Int. Res. J. Environmental Sci.

## Photocatalytic degradation of environmentally hazardous textile dye azure B in the presence of solar light using Nano BiOCl

Brijesh Pare<sup>1</sup>, Vaishali Joshi<sup>2</sup> and Satish Piplode<sup>2\*</sup>  
<sup>1</sup>Govt. J.N.S. P.G. College, Shujalpur-465331, India  
<sup>2</sup>Department of Chemistry, Govt. Madhav Science P.G. College, Vikram University, Ujjain-456010, India  
satish.piplode@gmail.com

Available online at: [www.isca.in](http://www.isca.in), [www.isca.me](http://www.isca.me)  
Received 7<sup>th</sup> November 2017, revised 13<sup>th</sup> January 2018, accepted 20<sup>th</sup> January 2018

### Abstract

This paper studies the environmental application of AOPs in treating dye wastewater. The azure B dye has been chosen as a pollutant. Photocatalytic degradation of azure B by nanoBiOCl was studied under solar light. BiOCl was prepared by a simple method and characterized by XRD and SEM. XRD pattern suggested that the synthesized nano BiOCl was highly pure and crystalline, SEM images depicted the platelike morphology of nanoBiOCl. The average particle size of nanoBiOCl was obtained as 45 nm. The photocatalytic studies have revealed that optimum pH was 8, initial dye concentration was  $4.0 \times 10^{-5} \text{ mol L}^{-1}$ , catalyst loading was 30 mg/100 ml of dye solution. The optimum concentrations of electron scavengers and salts have also been obtained.

**Keywords:** AOPs, wastewater remediation, Solar light, BiOCl.


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MOLECULAR DOCKING OF AMITRIPTYLINE TO CERULOPLASMIN, RETINOL-BINDING PROTEIN, AND SERUM ALBUMIN Download

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Vol 11, Issue 2, 2018

## MOLECULAR DOCKING OF AMITRIPTYLINE TO CERULOPLASMIN, RETINOL-BINDING PROTEIN, AND SERUM ALBUMIN

RAMCHANDER MERUGU<sup>1</sup>, KALPANA V SINGH<sup>2\*</sup>

<sup>1</sup>Department of Biochemistry, University College of Science, Mahatma Gandhi University, Nalgonda, Telangana, India. <sup>2</sup>Department of Chemistry and Pharmaceutical Chemistry, Government Madhav Science Postgraduate College, Ujjain, Madhya Pradesh, India.  
Email: [singhkalpana297@gmail.com](mailto:singhkalpana297@gmail.com)

Received: 22 August 2017, Revised and Accepted: 07 November 2017

### ABSTRACT

**Objective:** A drug's efficiency depends on the binding capacity of the drug with the particular plasma protein. The less bound drug can be easily diffused through cell membranes. The present study deals with *in silico* studies of amitriptyline binding to three plasma proteins human ceruloplasmin (HCP), cellular retinol-binding protein (CRBP), and human serum albumin (HSA) and tries to establish the binding capacity behavior with the frontier molecular orbital approach.

**Methods:** Amitriptyline is selected as legend and docked with three plasma proteins HCP, HCP PDB ID 1KCW, CRBP PDB ID 5LJC, and HSA. Docking calculations were carried out using docking server. frontier molecular orbital calculations are performed through web-based computational chemistry interface WEBMO version 17.0.012e using server Buchner.chem.hope.edu. on computational engine MOPAC.

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View of BIOLOGICAL EVALUATION OF GLYCOGEN SYNTHASE KINASE-3 B INHIBITORS AS ANTIDIABETIC AGENT


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BIOLOGICAL EVALUATION OF GLYCOGEN SYNTHASE KINASE-3 B INHIBITORS AS ANTIDIABETIC AGENT

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
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[New Frontiers in Science: A Paradigm Shift to Policy Planning]

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**BIOLOGICAL EVALUATION OF GLYCOGEN SYNTHASE KINASE-3 B INHIBITORS AS ANTIDIABETIC AGENT**

Jeeven S. Solanki<sup>1</sup>, Arpan Bhardwaj<sup>2</sup>, Amit Padidar<sup>3</sup>, Kalpana Singh<sup>4</sup>, Rekha Nagwanshi<sup>5</sup>

<sup>1,2,3,4,5</sup> Department of Chemistry, Govt. Madhav Science P.G. College Ujjain (M.P.) Pin 456010, India 

**Abstract:**  
*A series of phenylmethylenhydantoin and phenylmethylenethodanine derivatives (Der 1 to Der 8) were synthesized. These newly synthesized derivatives have been characterized by elemental analysis molecular weight measurements as well as spectral (IR, 1H NMR 13CNMR) studies. All the compounds show significant increase in liver glycogen level at 25 mg/kg dose levels, in- vivo & these compounds were also screened for anti diabetic activity on albino rats. Most of these compounds have shown significant antidiabetic activity at 25 mg/kg*

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
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**COMPUTER AIDED DRUG DESIGN: A PARADIGM SHIFT TO RATIONAL DRUG DESIGN (A CASE STUDY OF ALZHEIMER'S DRUG INTERPIRDINE FAILURE)**

Dr. Kalpana Virendra Singh<sup>1</sup>, Dr. Shobha Shouche<sup>2</sup>, Dr. Ramchander Merugu<sup>3</sup>, Dr. Jeeven Singh Solanki<sup>4</sup>

<sup>1,4</sup> P.G. Department of Chemistry and Pharmaceutical Chemistry, Govt. Madhav Science P.G. College Ujjain, M.P., India 

<sup>2</sup> P.G. Department of Zoology, Govt. Madhav Science P.G. College Ujjain, M.P., India  
<sup>3</sup> Department of Biochemistry, Mahatma Gandhi University, Nalgonda, Telangana, India

**Abstract:**  
*Drug discovery and design is a tedious and lengthy process which takes enormous time, and when this process reaches it's final stage that is the final stage of clinical trials 90% of the promising drug candidates fail levving a huge financial burden of around \$2-3bn on the*

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[Merugu et. al., Vol.4 (Iss.12: SE): December, 2017] ISSN: 2454-1907  
[New Frontiers in Science: A Paradigm Shift to Policy Planning] DOI: 10.29121/ijctmr.v4.i12.2017.588

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**NANO ROBOTS IN MEDICINE: A REVIEW**

Ved Prakash Upadhyay<sup>1</sup>, Mayank Sonawat<sup>1</sup>, Kalpana V.Singh<sup>2</sup>, Ramchander Merugu<sup>3</sup>

<sup>1</sup> Government Engineering College, Bikaner, Rajasthan, India  
<sup>2</sup> Govt. Madhav Science P.G.College Ujjain, M.P., India  
<sup>3</sup> Department of Biochemistry, Mahatma Gandhi University, Nalgonda, Telangana, India

**Abstract:**  
*In coming years, nanotechnology is likely to have a significant impact in different fields like medicine and electronics. Nanorobotics is emerging as a demanding field dealing with miniscule things at molecular level. Nano robots perform a specific task with precision at nanoscale dimensions. Nano robots are especially used for studies on Alzheimer disease and cancer treatments. These can be seen as the first Nano medicines, with potential application in medicine. Present day treatment includes surgeries which are considered outdated when compared to today's technology.*

**Keywords:** Nanorobots; Design; Types; Applications.

**Cite This Article:** Ved Prakash Upadhyay, Mayank Sonawat, Kalpana V.Singh, and Ramchander Merugu. (2017). "NANO ROBOTS IN MEDICINE: A REVIEW." *International Journal of Engineering Technologies and Management Research*, 4(12: SE), 27-37. DOI:

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← PRODUCTION OF BIOGAS FROM CELLULOSE AND BENZOATE USING ANAEROBIC BACTERIAL CONSORTIA

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[Rudra et. al., Vol.4 (Iss.12: SE): December, 2017] ISSN: 2454-1907  
[New Frontiers in Science: A Paradigm Shift to Policy Planning] DOI: 10.29121/ijctmr.v4.i12.2017.593

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**PRODUCTION OF BIOGAS FROM CELLULOSE AND BENZOATE  
USING ANAEROBIC BACTERIAL CONSORTIA**

Manisha D R<sup>1</sup>, Karunakar Rao Kudle<sup>1</sup>, Kalpana V.Singh<sup>3</sup>, Ramchander Merugu<sup>2</sup>,  
M.P.Pratap Rudra<sup>1</sup>

<sup>1</sup> Department of Biochemistry, Osmania University, Nalgonda, Telangana, India  
<sup>2</sup> Department of Biochemistry, Mahatma Gandhi University, Nalgonda, Telangana, India  
<sup>3</sup> P.G. Department of Chemistry and Pharmaceutical Chemistry Govt. Madhav Science P.G.  
College Ujjain, M.P., India

**Abstract:**  
*Among the energy sources, the depletion of non-renewable energy is of great concern in the present days. The non-renewable energy deposits are continuously depleted by human withdrawals. An alarming situation of continuous depletion in the natural resources by an increased consumption of energy, the urge to look out for alternate ways for energy*

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[Namdeo et. al., Vol.4 (Iss.12: SE): December, 2017]  
[New Frontiers in Science: A Paradigm Shift to Policy Planning] ISSN: 2454-1907  
DOI: 10.29121/ijetmr.v4.i12.2017.587

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**SYNTHESIS OF MIXED LIGAND METAL COMPLEX OF CU (II) WITH  
SCHIFF BASE AND THIOACETAMIDE**

**Pratibha Namdeo <sup>\*1</sup>, Arpan Bhardwaj <sup>2</sup>, S.K. Verma <sup>3</sup>**  
<sup>\*1,2</sup> Government Madhav Science College, Ujjain (M.P.), India  
<sup>3</sup> Government College, Sikar (Rajasthan), India 

**Abstract:**  
*Complex compounds were identified in the 19th century. The formation of hexammine cobalt (III) chloride [CO (NH<sub>3</sub>)<sub>6</sub>] Cl<sub>3</sub> which is prepared from cobalt chloride and ammonia is the first compound, studied and real beginning of coordination Chemistry [1]. Alfred Werner first explained the nature of bonding and structure of these complexes and he was awarded Noble*

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[Jain et. al., Vol.4 (Iss.12: SE): December, 2017]  
[New Frontiers in Science: A Paradigm Shift to Policy Planning] ISSN: 2454-1907  
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**PHOTOLYSIS OF FLUORENE AND 9-FLUORENONE A TOXIC  
ENVIRONMENTAL CONTAMINANT: STUDIES IN THE EFFECT OF  
SOLVENT AND INTENSITY OF THE SOURCE**

**Rekha Nagwanshi <sup>1</sup>, Dr. Jeeven Singh Solanki <sup>1</sup>, Sandhya Bageriab <sup>2</sup>, Shubha Jain <sup>\*3</sup>**  
<sup>1</sup> Government Madhav Science PG College, Ujjain, India  
<sup>2</sup> Laxminarayan College of Technology Indore, India  
<sup>\*3</sup> School of studies in chemistry and Biochemistry, Vikram University Ujjain, India 

**Abstract:**  
*Polycyclic aromatic hydrocarbons (PAHs) are a class of genotoxic environmental contaminants and are always exposed to solar radiations. Fluorenes are important PAHs*



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PHOTOCATALYTIC AND ANTIBACTERIAL ACTIVITIES OF TiO<sub>2</sub> AND SILVER AND ZINC DOPED TiO<sub>2</sub> NANOPARTICLES


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[Chelaramani et. al., Vol.4 (Iss.12: SE): December, 2017]  
[New Frontiers in Science: A Paradigm Shift to Policy Planning]


ISSN: 2454-1907  
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**PHOTOCATALYTIC AND ANTIBACTERIAL ACTIVITIES OF TiO<sub>2</sub> AND SILVER AND ZINC DOPED TiO<sub>2</sub> NANOPARTICLES**  
Chelaramani K. <sup>1</sup>, Varshney R. <sup>2</sup>, Bhardwaj A. <sup>3</sup>  
<sup>\*1,2,3</sup> Government Madhav Science P.G. College, Ujjain (M.P.), India



**Abstract:**  
*The TiO<sub>2</sub> and Ag and Zn doped TiO<sub>2</sub> nanoparticles were synthesized by sol-gel method. The sol-gel method is one of the versatile method to prepare doped and co-doped nanoparticles. sol gel method has emerged as simpler and better option than physical and chemical procedures as it is fast, clean and eco-friendly alternative that does not involve any costly instruments. Synthesis of doped and co-doped nanoparticles having good photocatalytic activity have great*

IJHAF | Transformation of Sandalwood Leaves into Nutrient Rich Compound through Vermicomposting

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International Journal of Horticulture, Agriculture and Food science (IJHAF) [Vol-2, Issue-3, May-Jun, 2018]  
<https://dx.doi.org/10.22161/ijhaf.2.3.3> ISSN: 2456-8635

**Transformation of Sandalwood Leaves  
(*Santalum album*) into Nutrient Rich Compound  
through Vermicomposting**  
Ritu Nagar<sup>1\*</sup>, Anurag Titov<sup>2</sup>, Praveesh Bhati<sup>3</sup>

<sup>1</sup>Research Scholar, Govt. Madhav Science PG College, Ujjain, (M.P.), India. [ritunagar021@gmail.com](mailto:ritunagar021@gmail.com)  
<sup>2</sup>Asst. Professor, Govt. Madhav Science PG College, Ujjain, (M.P.), India. [anurag.singh1961@gmail.com](mailto:anurag.singh1961@gmail.com)  
<sup>3</sup>Scientific Officer, DNA Finger printing Unit, Sagar (M.P.), India. [bhati\\_p212@yahoo.co.in](mailto:bhati_p212@yahoo.co.in)

**Abstract**—It is significant to use renewable resources to maximize crop yields and minimize the environmental risks accompanying with chemical residues. Composting is an age old practice for the biological conversion of organic waste into a humus-like substance which can enhance physical, chemical and biological soil properties. Vermicomposting of leaf litter by *Eisenia foetida* and *Eudrilus eugenia* potentially play a substantial role in remediation of organic waste as well as building up of soil fertility for sustainable agriculture. Present study was based on the conversion of Sandal wood leaf waste into nutrient rich best source. Sandal wood leaf were chopped at fine level and later mixed with cattle dung in order to

moist condition generate pollution. Such pollution cause adverse impact on living being health and eminence of life (Techobanoglous et al.,1993). Although decomposition is a part of composting which is a long standing natural process for recycling of organic waste but with appropriate approach it might be a noble substitute for solid organic waste. In composting process, the biological waste containing complex organic compound turn into feasible simple organic by-product called compost might be added to the soil without injurious effects on crop growth (Atiyeh et al., 2000). Such compost improves fertility of soil, porosity, and water-holding capacity. It also provides nourishment of

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*International Journal of Environment, Agriculture and Biotechnology (IJEAB)* Vol-2, Issue-6, Nov-Dec- 2017  
<http://dx.doi.org/10.22161/ijeab/2.6.6> ISSN: 2456-1878

## Vermicomposting of green Eucalyptus leaf litter by *Eisenia foetida* and *Eudrilus eugenia*

Miss. Ritu Nagar<sup>1\*</sup>, Dr. Anurag Titov<sup>2</sup>, Dr. Praveesh Bhati<sup>3</sup>

<sup>1,2</sup>Department of Botany, Govt. Madhav Science PG College, Ujjain, (M.P.) India,  
<sup>3</sup>Department of Microbiology, Govt. Madhav Science PG College, Ujjain, (M.P.), India.  
 \*corresponding author

**Abstract**— Effective clearance of different types of waste has become significant to sustain healthy environment. Vermicomposting has become a suitable substitute for the safe, hygienic and cost effective disposal of organic solid wastes. Earthworms decompose organic waste leading to the production of compost which is high in nutrient content. The present work has been designed to reveal competitive and / or beneficial interactions by studying

is a microbiologically active organic material formed from the interactions between earthworms and different type of microorganisms (Dominguez, 2004). Through the vermicomposting process, environmental risk of leaf waste material reduces by transforming into a safer and more stable product suitable for application to soil (Lazcano *et al.*, 2008), and also reduces the transportation costs because of the significant reduction in the water

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 RESEARCH ARTICLE ISSN 2250-1770

## Vermicomposting of Leaf litters: Way to convert waste in to Best

Ritu Nagar, Anurag Titov and Praveesh Bhati\*

Government Madhav Science PG College, Ujjain, (MP), India  
 \*Corresponding author: bhati\_p212@yahoo.co.in

**Abstract**

Scientific research has recognized the using of earthworms as a bioreactor for numerous organic solid wastes to producing organic fertilizers i.e. vermicompost. Vermicompost considered as an excellent product since it is homogenous, has desirable aesthetics, has reduced level of contaminates, has plant growth hormones, higher level of soil enzymes, greater microbial population and tends to hold more nutrients over a longer period without adversely impacting the environment. The present paper has appraisal the current state of knowledge on biology and species of earthworm, interaction between earthworm and microorganisms and the use of earthworms for organic waste stabilization. Aim of this paper to generate awareness in peoples towards simple method (vermicomposting) for clean

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**Volume No.07, Special Issue No. (03), January 2018**  
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**THE STUDY OF EFFECT ON *GLYCINE MAX*  
 (L.)MERRILL TISSUE CULTURE BY PLANT  
 GROWTH REGULATORS (PGRS) AND UV-B  
 SUPPLEMENTATION**

**Reena Panchlaniya<sup>1</sup>, Anurag Titov<sup>2</sup>**

<sup>1</sup>Research Scholar, Deptt. of Botany, Govt. Madhav Science PG College, Ujjain,M.P (India)  
<sup>2</sup>Associate Professor, Deptt. of Botany, Govt. Madhav Science PG College, Ujjain,M.P(India)

**ABSTRACT**  
*In the present study we optimized the role of Plant Growth Regulators (PGRs) and UV-B light on the tissue culture of Glycine max. Tissue cultures of Glycine max seeds were established in different culture media. MS Media were prepared by mixing all the necessary ingredients then added required hormones alone or in combination (2,4-D, 2.0 to 4.0 mg/l) and NAA (2.0 to 4.0 mg/l). Cultures were placed under filters which allowed only UV-B radiation to pass. UV-B radiation was provided continuously for 7 days (2 Hours in a day). It result obtained exhibit that the Callus induction rate of UV-B treated groups range from 20% to 92%. Nature and Morphology of the callus of PGRs groups were Greenish yellow and Friable callus while Yellowish brown*

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**IJHER (ISSN 2277 260X)**

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**EFFECT OF WATER EXTRACT OF VERMICOMPOST OF DIFFERENT GREEN LEAF LITTER WASTE ON THE SEED GERMINATION AND SEEDLING GROWTH OF MUNG (*Vigna radiata*)**

**Ritu Nagar<sup>1</sup>, Anurag Titov<sup>2</sup> and\* Praveesh Bhati<sup>3</sup>**

<sup>1</sup>Research Scholar, Govt. Madhav Science PG College, Ujjain,(M.P.),India.  
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 E-mail: bhati\_p212@yahoo.co.in

**ABSTRACT**

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PHYSICO-CHEMICAL PARAMETERS OF ORGANIC MANURE, SOIL AND IMPACT OF ORGANIC MANURE AND NPK FERTILIZER ON SEED GERMINATION OF SOYBEAN AND WHEAT  
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[Sheikh et. al., Vol.4 (Iss.12: SE): December, 2017]  
[New Frontiers in Science: A Paradigm Shift to Policy Planning] ISSN: 2454-1907  
DOI: 10.29121/ijetmr.v4.i12.2017.604

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**PHYSICO-CHEMICAL PARAMETERS OF ORGANIC MANURE, SOIL  
AND IMPACT OF ORGANIC MANURE AND NPK FERTILIZER ON  
SEED GERMINATION OF SOYBEAN AND WHEAT**


**Muzafer Ahmad Sheikh<sup>\*1</sup>, Pinky Dwivedi<sup>2</sup>**

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India  
<sup>2</sup> Assistant Professor, Department of Botany, Govt Madhav Science PG College Ujjain, M.P.,  
India

**Abstract:**  
*In order to investigate the comparative analysis of physico-chemical parameters of experimental soil (black cotton soil), vermicompost, farmyard manure and their impact on seed germination, the study was conducted by using Randomized block design (RBD) with three replications at the Department of Botany Govt. Madhav Science P.G. College Ujjain.*

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*Int. J. Pure App. Biosci.* 6 (2): 448-454 (2018)  
Research Article  
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 **International Journal  
of Pure & Applied  
Bioscience**

**Seasonal Diversity of Phytoplankton in Relation to Seasonal  
Changes in physicochemical Parameters of Khedi Kalan  
Station of Dholawad Dam of Ratlam District M. P.**

**Roshani Rawat<sup>\*</sup> and Seema Trivedi<sup>\*\*</sup>**  
Govt. Girls P. G. College Ratlam M. P.<sup>\*</sup>  
Govt. P. G. College Khachrod, Dist. Ratlam M. P.<sup>\*\*</sup>  
<sup>\*</sup>Corresponding Author E-mail: [vedantrawat11@gmail.com](mailto:vedantrawat11@gmail.com)  
Received: 28.02.2018 | Revised: 26.03.2018 | Accepted: 2.04.2018

**ABSTRACT**  
*In the present study an attempt has been made to assess the Phytoplankton species diversity in reference to physicochemical parameters of fresh water Khedi Kalan station of Dholawad Dam (Saroj sarovar Dam) of Ratlam District (M. P.). Present paper is based on evaluation of Phytoplankton Diversity of fresh water perennial Dholawad Dam of rural area of Ratlam. The present work is useful to explore Phytoplankton species, their composition along with relation with physicochemical parameters of Dholawad Dam. Phytonlankton could be used as the*


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International Journal for Research in Applied Science & Engineering Technology (IJRASET)  
 ISSN: 2221-9653; IC Value: 45.98; SJ Impact Factor: 6.887  
 Volume 6 Issue 1, January 2018- Available at www.ijraset.com

## A Classification Of analyzed Detection and Improvement OS Fingerprinting and Various finger stamping scanning ports

Nitin Tiwari<sup>1</sup>  
<sup>1</sup>Dept. of Information Technology, Swami Vivekananda University, Sagar, India

**Abstract:** Finger stamping is an overview and analyzed operating system and detection methods using port scanning .OS to specify based on stack finger stamping. Finger stamping to used various protocol and host such like as TCP/IP, FTP, TELNET, HTTP, DNS.OS detection also used concern of system or safety admin using the port. Finger stamping method was working version different o/s version. Similar o/s to perform the various task. The main aim of finger stamping method to used trace to another receiver hand. Its tracer worked by the search that exists some TCP/IP protocol. More and more analysed for the fingerprint to use some tools like inactive and active tools. Both tools are identifying remote o/s finger stamping. Active proceed work done by remote host analyzed and resisted. These are two methods to be recognized white-hat method and black-hat method to implement by active way Ip packet sent to the host. And detection method is also used .many normal process used for fin investigation to checking is usually to transfer signal by the sender to receiver. Finger stamping is scanning method like as half scanning, full scanning, stealth scanning .to locate open, closed port on the server. All scan method to client level used on SYN and server level used of SYN/ACK .and after this process to client ask to connect to the full connection to remote host.  
**Keywords:** Finger Stamping, Host Detection, Port Scanning, Open Scanning, Half-Open Scanning, Stealth Scanning

### I. INTRODUCTION

At the present time everyone is connected to the internet, so the need to secure him from the intrusions is essential. What happens if a bank data was hacked and taken down? This external threaten the organizations trigger them to use multiple security applications like firewalls/intrusion detection systems (IDSs) to insure themselves from the hackers. The operating system fingerprinting is a manner of remotely identifying and determining the identity of a scapegoat system by observing the TCP/IP packets that generated by that method[1]. The operating system detection can view from two parties. First, from the contrary point of view for the hackers needs. For example, the hackers detect OS to exploit. It's vulnerabilities for their hacking purposes to solved in the system. Another part of the network executives needs to access tool and mechanism. It is crucial for necessary data. Them to get as much information as probable about their networks. It is also wanted for the system administrator to have the specific summary about the peripherals

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International Journal of Scientific Research in \_\_\_\_\_ **Review Paper**  
 Computer Science and Engineering  
 Vol.5, Issue.6, pp.69-74, December (2017) E-ISSN: 2320-7639

## An Overview and Analysis Based on Biometric Framework Technique and Fingerprint Biometric Technology

Nitin Tiwari  
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 Available online at: www.isroset.org

Received: 07/Nov/2017, Revised: 19/Nov/2017, Accepted: 14/Dec/2017, Published: 31/Dec/2017

**Abstract—** Biometric technique area a strange and reliable structure and creation biometric, recognition has pulled in various researchers and achieved great success. This paper of overview of analysis work is to how is process, biometric are review and principal of the biometric techniques, taking both secure information and personal integrity into consideration. But my point of view every individual has unique characteristics. It is more secure and often more convenient. Biometrics are extra of high accuracy in today's can be used for identification biometric framework. The reason for our paper is to overview and analysis to know how to use biometric system and working for creation assessment whether the combination of structure and creation and unique mark biometric method used success execution that may not be believable utilizing a friendless technique innovation. The term biometrics encompasses together which means that Biometric information is more and more useful and can replace passwords identity verification of user's. This improves privacy for both user and administrator. Various method are used to discover and study and outcome result, biometric functions are advantage and for their strength and properly working in the completion of the biometric technology.

**Keywords—**Network Security, Biometric Technique, Fingerprinting Biometric, Numerous Biometric System, New and Emerging Biometric Techniques

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A Proteomic analysis of haemolys... Comparative Study of Soil Mixed... Shobha Shouche, A Proteomic...

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Comparative Study of Soil Mixed vermi-compost and Cattle Dung on the Growth Par... 1 / 14 110%

American Research Journal of Agriculture  
ISSN (Online) : 2378-9018  
Volume 3, Issue 1, 14 Pages

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### “Comparative Study of Soil Mixed vermicompost and Cattle Dung on the Growth Parameters of *Triticum astivum* (Wheat) and *Faciolus mungo* (Urad) Plant”

Bhati Praveesh<sup>1</sup>, Shouche Shobha<sup>2</sup>, Jain Sudhir Kumar<sup>3</sup>, Dhundhale Kavita<sup>4</sup>

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<sup>2</sup>Assit. Professor, Govt.Madhav Science PG College, Ujjain (M.P.), [shobha.shouche@gmail.com](mailto:shobha.shouche@gmail.com)  
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Received Date: May 1, 2017 Accepted Date: May 31, 2017 Published Date: July 31, 2017

**Abstract:** The application of vermicompost to improve the physical properties of soils is a promising technology to meet the requirements of high plant growth and cost-effective recovery. Therefore, the aim of this study was to investigate the comparative effect of different proportion of vermicompost and cattle dung mixed soil on *Triticum astivum* (Wheat) and *Faciolus mungo* (Urad) Plant. Different growth parameters viz. germination studies, plant length, dry weight and photosynthetic pigment were analyzed. In the present investigation highest germination percentage, plant length, dry weight of root /shoot and chlorophyll-carotenoid percentage were recorded in 50% soil treated with vermicompost and cattle dung than control soil and other proportions. It has also found that all the selected growth parameters of both Wheat and Urad plant showed significant improvement in vermicompost treated soil than cattle dung treated soil. The present investigation clearly revealed that the addition of vermicompost to soil greatly enhanced the yield in Wheat and Urad plant.

**Keywords:** Vermicompost, cattle dung compost, chlorophyll, dry weight, germination.

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## Bioinformatics and horticulture

Opinion

Bioinformatics is an interdisciplinary field that utilizes mathematics, engineering, biology, statistics and computer science to analyze biological data and solve complex biological problems. With the development of Human Genome Project, the data of biology increased tremendously. There was a growing need to develop a system that could measure, analyze and track this data effectively. This led to the birth of Bioinformatics which provided tools that helped in developing algorithms and software to record and analyze biological data. This includes information and characteristics of genes, proteins, drug ingredients and metabolic pathways. The key research areas in Bioinformatics are:

- Sequence Analysis,
- Genome Annotation,
- Computational Evolutionary Biology,
- Analysis of Mutations in Cancer,

successful in inserting genes in the genome of rice to increase Vitamin A levels. The genetically modified rice contains more Vitamin A, a Vitamin which is essential to maintain healthy eyes, has helped in reducing the blindness rate worldwide. Some varieties of cereal have been modified to be drought/submergence resistant and enhanced to grow in infertile soils. Bioinformatics tools are also indispensable to agriculture and horticulture from the climate change perspective.

Volume 2 Issue 1 - 2018

Shobha Shouche, Sachin Rahangdale  
Department of Bioinformatics, Govt Madhav Science PG College, India

**Correspondence:** Shobha Shouche, Department of Bioinformatics, Govt Madhav Science PG College, Ujjain, Madhya Pradesh, India, Email [shobha.shouche@gmail.com](mailto:shobha.shouche@gmail.com)

**Received:** July 23, 2017 | **Published:** January 22, 2018

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**Molecular screening of some antiviral compounds against four viral diseases  
H1N1, Chikungunya, Ebola and Dengue**

**Shobha Shouche\*, Ravikant Yadav, Pradeep Saini and Harshad Sharma**

Department of Bioinformatics Govt. Madhav Science College Ujjain (M.P.)

\* Email- shobha.shouche@gmail.com

**Abstract-**

In last few years H1N1, Chikungunya, Ebola and Dengue epidemic was lethal which was found to be affecting multiple countries including India and till date there is no reported common drug which can be used against these viral diseases. That's why we have designed this study. For this purpose we have selected these four viruses which are responsible for H1N1, Chikungunya, Ebola and Dengue so that we have prepared the 3D structure of their conserved region and then targeted these with the different ligands taken from the pubchem available selected antiviral compounds. This study was performed with the help of homology modeling & molecular docking followed by the multiple sequence alignment of different target sequence to find out a drug to cure H1N1, Chikungunya, Ebola and Dengue with a common medicine.

**Keywords:** Epidemic, H1N1, Alignment, Conserved.

**Introduction**

Some human diseases are apparently caused by the body response to virus infection. Viruses cause many diseases

been shown to be protective in mice against CHIKV challenge [6].

**Ebola**

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Micellar-accelerated hydrolysis of organophosphate and thiophosphates by pyridine oximate

INTERNATIONAL JOURNAL OF CHEMICAL KINETICS

Volume 50, Issue 11  
November 2018  
Pages 827-835

ARTICLE

Micellar-accelerated hydrolysis of organophosphate and thiophosphates by pyridine oximate

Neha Kandpal, Hitesh K. Dewangan, Rekha Nagwanshi, Kallol K. Ghosh, Manmohan L. Satnami

First published: 05 September 2018

Department of Chemistry, Govt. Madhav Science P. G. College, Ujjain, India

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Abstract

Rate constants for the hydrolysis reaction of phosphate (paraoxon) and thiophosphate (parathion, fenitrothion) esters by oximate (pyridinealdoxime 2-PyOX<sup>-</sup> and 4-PyOX<sup>-</sup>) and its functionalized pyridinium surfactants 4-(hydroxyimino) methyl-1-alkylpyridinium bromide ions (alkyl = C<sub>n</sub>H<sub>2n+1</sub>, n = 10, 12, 14, 16) have been measured kinetically at pH 9.5 and 27°C in micellar media of cationic surfactants cetyltrimethylammonium bromide (CTAB) and cetylpyridinium bromide (CPB). Acid dissociation constant, pK<sub>a</sub>, of oximes has also been determined by spectrophotometric, kinetic, and potentiometric methods. The rate acceleration effects of cationic micelles have been explored. Cationic micelles of the pyridinium head group (CPB) showed a large catalytic effect than the ammonium head group (CTAB). The effects of pH, oximate concentration, and surfactants have been discussed.

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<sup>b</sup> Department of Chemistry, Govt. Madhav P.G. Science College, Ujjain, Madhya Pradesh, India

Abstract

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A colorimetric nanoprobe based on enzyme-immobilized silver nanoparticles for the efficient detection of cholesterol

From the journal: **RSC Advances**

**A colorimetric nanoprobe based on enzyme-immobilized silver nanoparticles for the efficient detection of cholesterol**

Lakshita Dewangan,<sup>a</sup> Jyoti Korram,<sup>a</sup> Indrapal Karbhaj,<sup>a</sup> Rekha Nagwanshi,<sup>b</sup> Vinod K. Jena<sup>c</sup> and Manmohan L. Satnam<sup>a</sup>

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Article type	Paper
Submitted	12 Oct 2019
Accepted	05 Dec 2019
First published	18 Dec 2019

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Synthesis of Mn/NiO and Mn/BiOCl nanoparticles for degradation of Nile blue dye contaminated water under visible light illumination

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Volume 38, 2020 - Issue 6

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**Synthesis of Mn/NiO and Mn/BiOCl nanoparticles for degradation of Nile blue dye contaminated water under visible light illumination**

Bhawna Sarwan, Brijesh Pare  
Pages 659-666 | Received: 04 Mar 2019  
DOI: 10.1080/02726351.2019.1570991

Laboratory of Photocatalysis, Department of Chemistry, Govt. Madhav Science Post Graduate College, Vikram University, Ujjain, MP, India

Abstract

For developing visible-light-responsive photocatalytic materials, the photocatalyst with large surface area and superior charge carrier mobility is of vital importance. Here, we have synthesized Mn/BiOCl and Mn/NiO nanoparticles to achieve efficient charge collection at the Mn/BiOCl and Mn/NiO

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ELSEVIER

**Synthesis, characterization and antimicrobial study of poly (methyl methacrylate)/Ag nanocomposites**

Nayma Siddiqui<sup>a,\*</sup>, Arpan Bhardwaj<sup>a</sup>, Renu Hada<sup>b</sup>, Vishwajeet Singh Yadav<sup>b</sup>, Deepti Goyal<sup>c</sup>

<sup>a</sup> Department of Chemistry, Govt. Madhav Science P.G. College, Ujjain, MP, India  
<sup>b</sup> Department of Chemistry, MUIS, Ganpat University, Kherva, Mahesana, Gujarat, India  
<sup>c</sup> Department of Applied Chemistry, Gautam Buddha University, Gautam Budh Nagar, UP, India

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**ARTICLE INFO**

Article history:  
Received 15 December 2017

**ABSTRACT**

The main aim of this study is to investigate the effect of Ag loading on UV absorption and antimicrobial behavior of Poly (methyl methacrylate)/silver nanocomposites. In this research, silver nanocomposites

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ISSN: 0970-020 X  
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2018, Vol. 34, No.(6):  
Pg. 3140-3144

**Synthesis, Photocatalytic and Antibacterial Activities of Nickel Doped TiO<sub>2</sub> Nanoparticles**

RITU VERSHNEY<sup>1</sup>, KOMAL CHELARAMANI<sup>2</sup> ARPAN BHARDWAJ<sup>3\*</sup> and NAYMA SIDDIQUI<sup>1</sup>, SURESH KUMAR VERMA<sup>1</sup>

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<sup>3</sup> Department of Chemistry, Government Science College, University of Rajasthan, Sikar-332001, India.  
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<http://dx.doi.org/10.13005/ojc/340661>

Received: August 19, 2018; Accepted: December 09, 2018)

**ABSTRACT**

The synthesis of Ni doped titania (TiO<sub>2</sub>) nanoparticles were achieved via simple novel sol-gel technique, in which Titanium-n-butoxide and NiCl<sub>2</sub> were taken as precursors. Effect of different wt% of dopant in TiO<sub>2</sub> was studied on photocatalytic degradation of Aniline blue and Toluidine Blue. The study suggested the increased photocatalytic degradation with increased time duration. The synthesized samples were analyzed by surface electron microscopy (SEM) and X-ray diffraction studies. The antibacterial activity was investigated against Gram-positive *Staphylococcus aureus* bacteria. Studies revealed that on increasing the dopant concentration, the diameter of zone of inhibition also increased upto 1.5 wt%.

**Keywords:** Nanoparticles, Sol-Gel, Antibacterial, Photocatalytic activity

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**Int J Ayu Pharm Chem**  
RESEARCH ARTICLE www.ijapc.com  
e-ISSN 2350-0204

**Pharmacological Evaluation, Phytochemical Screening and Analytical Profiling of Various Extracts of Clerodendron serratum: An Medicinal Herb**

Sapna Malviya<sup>1\*</sup> and P. Dwivedi<sup>2</sup>

<sup>1,2</sup>Govt. Madhav Science P. G. College, Ujjain (M.P.), India

**ABSTRACT**  
*Clerodendron serratum* belongs to family *verbenaceae* known as *Bharangi* commonly found in the India. The *Clerodendron serratum* showed anti-fungal, anti-oxidant, tuberculosis, anti-asthmatic, anti-bacterial and anti-inflammatory properties. The *Clerodendron serratum* contains D-mannitol, cleroflavone, apigenin, scutellarein, serratogenic acid, quercetin and  $\gamma$ -sitosterol. The phytochemical screening was performed on petroleum ether, chloroform and methanol extracts of the plant. Analytical techniques (Thin Layer Chromatography, Fourier Transmittance Infrared and High Performance Thin Layer Chromatography) and chemical test confirmed the presence of alkaloids, flavanoids, phenols, terpenoids, steroids and saponins in plant extracts. Most of the phytochemicals were present in chloroform and methanol extracts. The alkaloid found in chloroform and methanol extract respectively at  $R_f$  0.42 and 0.45. Flavanoids and phenol were present in chloroform and methanol extract. Terpenoids and saponins were present in methanol extract while steroids were observed in chloroform extract only. Further antibacterial and antifungal activities were also performed which showed positive result for plant extracts.

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Malviya et al Journal of Drug Delivery & Therapeutics. 2019; 9(1-s):84-87

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Open Access Research Article

**Extracts of *Ailanthus excels* an Essential Medicine in Ayurveda: Pharmacological evaluation and preliminary screening of phytochemicals**

Sapna Malviya\*, Dr. P. Dwivedi  
Govt. Madhav Science P. G. College, Ujjain (M.P.), India

**ABSTRACT**  
*Ailanthus excels* belongs to family *Simaroubaceae* known as tree of Heaven and Mahanimba commonly found in the India and China. The present study involves preliminary screening, qualitative analysis and pharmacological evaluation of extract. The preliminary phytochemical screening

Extracts of Ailanthus excels an E x View of Physiochemical Analysis x +  
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 Physiochemical Analysis of Sandalwood (*Santalum Album*) Leaf Litters Degraded by *Eisenia foetida* and *Eudrilus eugenia*  
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 **International Annals of Science**  
 ISSN: 2456-7132  
 Volume 7, Issue 1, pp. 6-11, 2019  
 DOI: <https://doi.org/10.21467/ias.7.1.6-11>

**RESEARCH ARTICLE**

**Physiochemical Analysis of Sandalwood (*Santalum Album*) Leaf Litters Degraded by *Eisenia foetida* and *Eudrilus eugenia***

Praveesh Bhati<sup>1\*</sup>, Ritu Nagar<sup>2</sup>, Anurag Titov<sup>2</sup>

<sup>1</sup> DNA Fingerprinting Unit, State Forensic Lab, Civil line Sagar (M.P.), India  
<sup>2</sup> Govt. Madhav Science PG College, Dewas road Ujjain, (M.P.), India


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Received: 25 November 2018 / Revised: 03 February 2019 / Accepted: 10 February 2019 / Published: 10 February 2019

**ABSTRACT**

The decay of leaf litter by microflora and fauna furnish nutrient supply to the soil and also uphold ecological sustainability. Applying of proper technique and exploring of result provides information for the betterment of agricultural system. Vermicomposting of Sandalwood (*Santalum album*) leaf litters were studied with an emphasis of physio-chemical deviation during the process and also compared

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 Study of Changes in Physical Parameters of compost and vermicompost of Eucalyptus leaf litters  
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 **Advanced Journal of Graduate Research**  
 ISSN: 2456-7108  
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 DOI: <https://doi.org/10.21467/ajgr.4.1.34-40>

**GRADUATE RESEARCH ARTICLE**

**Study of Changes in Physical Parameters of compost and Vermicompost of Eucalyptus Leaf Litters**

Ritu Nagar<sup>1\*</sup>, Anurag Titov<sup>1</sup>, Praveesh Bhati<sup>2</sup>

<sup>1</sup> Department of Botany, Madhav Science PG College, Ujjain (M.P.), India  
<sup>2</sup> DNA Finger Printing Unit, State Forensic Science Lab. Sagar, India

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[ritunagar021@gmail.com](mailto:ritunagar021@gmail.com)

Article History  
 Received: 10 March 2018  
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 Accepted: 24 March 2018  
 Published: 04 April 2018

**ABSTRACT**

Vermicompost and compost of leaf litter of Eucalyptus was studied in plastic bins in duplicate sets with two different proportions (100 % and 50 %). For vermicompost experiments, epigeic earthworm species *Eisenia foetida* and *Eudrilus eugeniae* were employed at 10-10 numbers each per vermicompost bins. Cattle dung was taken as control. During the entire process physical factors viz. temperature, pH, moisture content and biomass were measured and compared. The results were found that initial

Extracts of Ailanthus excels an E x View of Seed Germination and S x +

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## “Seed Germination & Seedling Growth of Fenugreek (Methi) (*Trigonella Foenum Graecum* L.) Influenced By Water Extract of Eucalyptus Leaf Litter Vermicompost & Compost”

By Ritu Nagar, Anurag Titov & Praveesh Bhati  
 Govt. Madhav Science PG College

**Abstract-** Germination of seed is the fore most requirement of plant growth which influenced by several physical and chemical parameters. This factor either naturally found in the surrounding environment or some time added into the soil. Such supplementation is done either in the form of chemical or by an organic compound. Present study done to find out effect of different types of vermicompost and compost

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International Journal of Research in Engineering, Science and Management  
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## Estimation of Secondary Metabolites from Methanolic Extract of Treated and Non-Treated Callus of *Withania Somnifera* using Thin Layer Chromatography and High Performance Liquid Chromatography

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**Abstract:** *Withania somnifera* (Ashwagandha-Medicinal plant) is one of the most reputed medicinal plants. It is an important source of drugs of traditional system of medicine. The secondary metabolites have a lot of economic importance in the plant breeding, plant defense, pollination, ecological effects and others. The present study has been undertaken to estimate the secondary metabolites (phenolic compounds) from methanolic extracts of UV-B treated and non-treated eight weeks old callus of *Withania somnifera* leaf explants. Qualitative SMs profiling was done through TLC while quantification was carried out through HPLC. TLC and HPLC results showed that the major secondary medicinal plants for its efficiency, safety and to meet health care needs. Secondary metabolites of medicinal plants have a large use in modern and traditional medicine. It is the sources of important drugs and herbal plant materials containing antioxidant effective in lowering the occurrence of various diseases (Harika et al., 2017). There are ten species under this genus of which three species *Withania somnifera*, *Withania coagulans* and *Withania obtusifolia* are found in India. Among the worldwide list *Withania somnifera*, *Withania coagulans*, *Withania adenensis*, *Withania riebeckii* are examples of known

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View of DIVERGENCE IN THE VERMICOMPOSTING OF GREEN AND SENESCENCE BLACK PLUM (SYZYGIUM CUMINI) LEAF LITTERS


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DIVERGENCE IN THE VERMICOMPOSTING OF GREEN AND SENESCENCE BLACK PLUM (SYZYGIUM CUMINI) LEAF LITTERS

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Science

**DIVERGENCE IN THE VERMICOMPOSTING OF GREEN AND SENESCENCE BLACK PLUM (SYZYGIUM CUMINI) LEAF LITTERS**

**Ritu Nagar<sup>1</sup>, Anurag Titov<sup>2</sup>, Praveesh Bhati<sup>\*3</sup>**

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<sup>2</sup> Assistance Professor, Govt. Madhav Science PG College, Ujjain, (M.P.), India  
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**Abstract**

In the present scenario, generation of organic solid waste is foremost trouble demands healthy and sustainable elucidation. Vermicomposting is an appropriate biotechnological approach to transform organic solid waste into valuable product. Vermicomposting process is carried out by suitable exotic varieties of earthworm. These Earthworms utilize semi digested organic waste

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Online International Interdisciplinary Research Journal, [Bi-Monthly], ISSN 2249-9598, Volume-08, Issue-04, July-Aug 2018 Issue

**Study on the Source of Some Wild Threatened Ethno-Medicinal Plant Species as Therapy of Diverse Human Diseases in Simaiya Province of Mandla District (M.P.)**

**M. K. Thakur<sup>a</sup>, K. P. Sahu<sup>b</sup> and Satish Kumar Jhariya<sup>c</sup>**

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**Corresponding author:** Satish Kumar Jhariya

**Abstract**

The objective of the study is to find out various diseases and the actual work performed by the medicine man (*Gond* and *Baiga*) for their treatments and the time devoted to perform such activities. During this period investigation based on ethno-botanical study the availability of medicinal plants of traditional knowledge systems were graded as poor, satisfactory and good. In order to elicit the actual work performed by the tribal's clan various records of the cure of different ailments such as diabetes, skin disease, arthritis, kidney stone etc. from October 2013 to May 2018 were examined and noted down on a predesigned questionnaire. This was supplemented by direct in-field observation.

**KEYWORDS:** wild medicinal plants, ethno-medicinal practices, Simaiya Village.

**INTERODUCTION**

Wild medicinal plants represent the usually diversified category. This valuable natural resource plays an important role in the health care for 80% of world's population even now (Fransworth and Soejarto 1991). It is widely accepted that

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**Critiquing Brecht's Epic Theatre Theory with Reference to *Mother Courage and Her Children***

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Received: March 07, 2019 Accepted: April 14, 2019

**ABSTRACT :** Bertolt Brecht's *Mother Courage and Her Children* is undoubtedly a tragic play but it deviates markedly from the classical norms of Aristotelian concept of tragedy. Brecht wrote this play in accordance with certain principles of drama which were formulated and evolved to suit his concept of the epic theatre. Ervin Piscator initiated the concept of epic theatre. Brecht took this concept of epic theatre and developed it into a full-fledged theory. In order to create the 'alienation' or 'distancing' or estrangement in his audience Brecht deviated from the generic tradition of tragic drama. This paper is an attempt to discuss the epic theatre and to analyse the action and contemplation of the play to highlight the success and the pitfalls of the theory.

**Key Words:** Episode, Alienation, Plot, Action

**1 Introduction**

Bertolt Brecht is one of the renowned English playwrights, who is known as the untraditional and a totally different dramatist. Brecht's writings show the sound presentation of story, theme and characters. He is known for introducing his new techniques of writing plays in untraditional way. The 'alienation effect' was introduced by Bertolt Brecht and because of this effect broke his play away from the dominant Aristotelian dramaturgy in many ways. This 'alienation effect' was used by Brecht in order to distance the audience from the action of the play. From the Aristotelian point of view the tragedy attaches the audience to see the further action and it enables people to think about the upcoming actions of the play. While Bertolt Brecht tries to detach the audience from what is going to happen. This 'alienation effect' has been achieved

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**Original Article** **Open Access**

**Microbiome analysis from Russell Viper found in western part of Madhya Pradesh, India**

**Lodha Minal and Ishaque Shehla**

[Department of Zoology, Microbiology and Bioinformatics Madhav Science P.G College, Ujjain.](#)

Manuscript details:	ABSTRACT
Received : 02.03.2018 Accepted : 20.04.2018 Published : 26.04.2018	This study involves the study of microflora from the oropharyngeal cavity of Russell viper, which is one of the most venomous species found in India and in Madhya Pradesh. Statistical analysis shows that Russell viper bite is common in Madhya Pradesh which contributes to the mortality rate of the state. Morphological analysis with biochemical testing reveals the presence of microbes like <i>Escherichia coli</i> and <i>Bacillus subtilis</i> , DNA sequencing of the pathogenic bacteria thus helps in the future studies, as finding is first in itself. These findings are helpful in infection treatment at the site of bite.
<b>Editor: Dr. Arvind Chavhan</b>	
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Potential Of Actinomycetes As Bi... x Potential Of Actinomycetes As Bi... x +

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PARIPEX - INDIAN JOURNAL OF RESEARCH Volume-8 | Issue-1 | January-2019 | PRINT ISSN - 2250-1991

**REVIEW PAPER** Microbiology

**POTENTIAL OF ACTINOMYCETES AS BIOREMEDIATING AND BIOCONTROLLING AGENTS** KEY WORDS: Actinomycetes, bioremediation, secondary metabolite production.

**Deepika Tiwari** Govt. Madhav Science College, Department of Zoology, Vikram University, Ujjain

**Praveesh Bhati** Home Police Department, DNA Finger Printing Unit, State Forensic Science Lab, Sagar, India

**Preeti Das** Lecturer, School of Studies in Microbiology, Vikram University, Ujjain

**Shobha Shouche\*** Associate professor, Department of Zoology, Govt. Madhav Science, College, Ujjain \*Corresponding Auhtor

**ABSTRACT**  
Bioremediation and antibiotic resistance are one of the hot areas of research due to increased level of toxic compounds added to the environment and adaptation of defence mechanisms in microbes to current use antibiotics. Technologies in bioremediation are continuously being improved using naturally occurring microorganisms to clean residues and contaminated areas from toxic organic compounds. In most of the publications, Actinomycetes, types of filamentous bacteria are discussed separately as they play a major role in decomposition. They are widely distributed in soils and manmade environment such as compost heaps. As degradation agents, actinomycetes are important in the degradation of soil organic materials into humus. They secrete a range of enzymes that can completely degrade all the components. They are known for the production of bioactive secondary metabolites. The rapid development of drug resistance strains of pathogens has increased the demands for inventions of novel drugs and antibiotics. For this reason, many researchers have vigorously involved in isolation and screening of actinomycetes from diverse and even unexplored habitats, for their production of antibiotics. The potential of actinomycetes as bioremediation and secondary metabolite production has open exciting avenues in the field of biotechnology and biomedical research.

**1 Introduction:**  
Actinomycetes are ubiquitous group of microbes widely distributed in natural ecosystems around the world (Srinivasan et al., 1991). Actinomycetes are gram-positive bacteria showing a filamentous growth like fungi. They are aerobic and widely spread in nature. They are predominant in dry alkaline soil (Jeffrey, 2008). Actinomycetes DNA are rich in G+C content with the GC % of 57 - 75% (Lo et al., 2002). These Gram Positive bacteria have been placed within the phylum Actinobacteria, class Actinobacteria, et al. 2017), marine ecosystem (Attimarad et al., 2012; Mohseni et al. 2013), mangrove ecosystem (Mangamuri et al., 2012; Abidin et al., 2016), composts (Worlike and Abate, 2016), vermicomposts (Gopalkrishnan et al., 2011) Environmental factors influence the type and population of actinomycetes in soil. They are found both at mesophilic (25- 30°C) and thermophilic (40°C) environments (Haseena et al. 2016). The pH is also a major environmental factor determining the distribution and activity of actinomycetes. Most of the actinomycetes grow at optimum pH around 7. Vasavada et al.

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Research Article

DOI: <http://dx.doi.org/10.22192/ijarbs.2018.05.04.002>

**Distribution and composition of butterfly species of the Soya bean plant campus, Ujjain Madhya Pradesh, India**

**Shobha Shouche and Satyendra Singh Ratnakar\***  
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**Abstract**  
Distribution and composition of butterfly species of the soya bean plant campus Ujjain was studied. A total of 146 butterflies with 19 species belonging to five families recorded from Soya bean plant campus Ujjain, during the period from 2014 and 2015. Nymphalidae was the most abundant family with 8 species followed by Lycaenidae with 4 species followed by Pieridae and Papilionidae have 3 species each followed by Hesperidae with only 1 species. *Eurema hecabe* is very common species belong to family Pieridae followed by *Catopsilia pyranthe* belong to family Pieridae than *Junonia lemonias* belong to family Nymphalidae.


**Keywords:** distribution, butterfly, species.

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## Diversity and richness of butterflies from government madhav science college campus, Ujjain, Madhya Pradesh, India

**Shobha Shouche and Satyendra Singh Ratnakar**

**Abstract**  
 A total of 131 butterflies with 22 species belonging to five families were recorded during the period from 2014 and 2015 from Government Madhav Science College campus Ujjain. The maximum number of species were belong to family Nymphalidae with 10 species (*Junonia lemonias*, *Junonia orithya*, *Junonia almana*, *Danaus chrysippus*, *Danaus genutia*, *Euploea core*, *Tirumala limniace*, *Melanitis leda*, *Ariadne merione*, *Phalantha phalantha*) followed by Pieridae with 5 species (*Belenois aurota*, *Eurema hecabe*, *Catopsilia pyranthe*, *Ixias marianne*, *Cepora nerissa*), Lycaenidae with 4 species (*Chilades parrhassius*, *Tarucus nara*, *Zizina otis*, *Arhopala bazalus*), Papilionidae with 2 species (*Papilio demoleus*, *Graphium agamemnon*) and Hesperidae with only one species (*Hasora chromus*).


**Keywords:** butterflies, diversity, Ujjain

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ejbps, 2018, Volume 5, Issue 2, 1100-1102. **Research Article** SJIF Impact Factor 4.382



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### PREVALENCE AND ANTIMICROBIAL SUSCEPTIBILITY OF NASAL CARRIAGE OF *STAPHYLOCOCCUS AUREUS* IN ANGANWARIES CHILDREN IN UJJAIN (M.P.)

Sapna Dey<sup>\*1</sup>, Shobha Shouche<sup>2</sup> and Jai Prakash Narayan Pathak<sup>3</sup>

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Article Received on 21/12/2017      Article Revised on 10/01/2018      Article Accepted on 31/01/2018

**ABSTRACT**  
*Staphylococcus aureus* plays an important role in spreading of diverse range of infection in human as well as in animals. Many evidences that community acquired *S.aureus* infections are spreading among children. A prospective study was done in children between 1 to 6 years of age attending 100 anganwaries. 10 children were randomly selected from each anganwary. A total 1002 children were included in these studies. The isolated colonies were identified using standard laboratory procedure and tested for susceptibility to various commonly used antibiotics according to CLSI. Out of 1002 children, 351 samples were cultured and found positive for

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**International Journal of Life Sciences**  
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Short Communication Open Access

### Grasses Diversity of Mandav region (M.P.) India

Mujalde <sup>1</sup>, Dwivedi HS<sup>2</sup> and Dwivedi Pinky<sup>3</sup>

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**ABSTRACT**  
The sky seems to go on forever! You can look in any direction for miles and see no trees or bushes. It might just seem like a lot of grass, but this place is teeming with life. You are in a grassland biome, grasslands have many names- prairies, pampas, steppes, and savannas. They are all areas where rain isn't predictable. Grasslands receive more rain than deserts and less rain than forests. The rainfall in a grassland doesn't support many trees. Grassland has unique plants and animal. To keep grassland healthy plants and animals work together. Indian grassland have been classified into eight major types and two types Sehima Dichanthium and Dichanthium Cenchrus are present in M.P. Research area - Mandva is situated in the Vindhyanchal Range at 2,000 feet above sea level. There is a deep ravine which separates it from the Malwa Plateau in Central India. In Dhar District is located at western part of M.P. and

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(PDF) Impact of different Fertilizer Combinations on the Biochemical Parameters of Wheat... x +

phytomorphology.com/articles/impact-of-different-fertilizer-combinations-on-the-biochemical-parameters-of-wheat-triticum-aestivum-l.pdf

Impact of different Fertilizer Combinations on the Biochemical Parameters of Wheat... 1 / 6 125%

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Phytomorphology 

RESEARCH ARTICLE

### Impact of different Fertilizer Combinations on the Biochemical Parameters of Wheat (*Triticum aestivum* L.)

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Received: 24. 12. 2019 | Accepted: 17. 02. 2020 | Published: 06. 03. 2020

**Abstract**  
In order to estimate the comparative impact of organic manure (Vermicompost, Farmyard manure), chemical fertilizers (NPK, Urea) and their combinations on protein and carbohydrate content of Wheat during different growth stages, an experiment was conducted by using Randomized Block Design (RBD) with three replications. The results revealed that at 15 days after sowing protein content of wheat (leaves) recorded maximum (15.73 mg/gm) in 10% Vermicompost +100 gm NPK fertilizer treatment and minimum (7.92 mg/gm) in control. However at 60 days after sowing it was reported maximum (17.92 mg/gm) in 10% Vermicompost +100 gm NPK fertilizer combination and minimum (9.68 mg/gm) in control. In the wheat grains, protein content was maximum (127.42 mg/gm) in 10% Vermicompost +100 gm NPK followed by 10% VC+100 gm urea (123.59 mg/gm) and minimum (87.53 mg/gm) in control. Moreover, the carbohydrate content of plant leaves at 15 days after sowing was recorded maximum (37.52 mg/gm) in 10%

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**Dr. Anurag Titov**  
Associate Professor, Department of Botany, Govt. Madhav Science PG College, Ujjain, Madhya Pradesh, India

### Effect of different microbial inoculants on growth and physiology of maize (*Zea mays* L.) and wheat (*Triticum aestivum* L.) in Vertisols of western Madhya Pradesh

Azad Ahmad Wani, Dr. DS Tomar and Dr. Anurag Titov

**Abstract**  
Bio-fertilizers have prodigious potential to improve the plant nutrition by replacing synthetic fertilizers for eco-friendly agriculture. Bio-fertilizers have fabulous tendency for decreasing the requirement of synthetic fertilizers without compromising on crop yield. In order to investigate the effects of plant growth promoting rhizobacteria (PGPR) on improvement in quality parameters and was conducted at KVK (Krishi Vigyan Kendra), Ujjain. In this study, factorial experiment based on completely randomized block design with three replications was used. The microbial inoculants were mixed with compost and cocopit @15g/Kg. Results of the study showed that all treatments significantly increased all growth quality parameters. Maximum increase in germination percentage and other quality parameters were found in Phosphorus solubilizing bacteria (PSB) in case of Maize and *Azotobacter* in case of Wheat seed, respectively. Highest germination % (83.8% / 83.8%), Shoot length (25.8 / 16.13 cm), Root length (10.1 / 10 cm), Total seedling length (35.3 / 25 cm), dry wt. (0.27 / 0.06 mg), SV-I (3429 / 2475 mg), SV-II (26.3 / 6), Leaf area (16.35 / 3.7 cm<sup>2</sup>). Results suggested that applications of all microbial seed treatments did not affect adversely and proved to be beneficial for maximum seed quality parameters of the selected seeds.

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### Vermicomposting of Dry leaf litter of Palash (Bastard teak) tree (*Butea monosperma*)

Ritu Nagar<sup>1</sup>, Anurag Titov<sup>2</sup>, Praveesh Bhati<sup>3\*</sup>

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<sup>2</sup> Assistant Professor, Govt. Madhav Science PG College, Ujjain, Madhya Pradesh, India  
<sup>3</sup> Scientific Officer, DNA Finger printing Unit, Sagar, Madhya Pradesh, India

**Abstract**  
Disposal of waste is a universal problem. Available methods require manpower, lot of money and area to manage waste. Plant generating waste is a type of organic waste which can be use better for soil conditioning and as a tonic for maintain their healthy status. Vermicomposting is a suitable alternative for safe, hygienic and cost effective disposal of organic solid wastes. The present work has been done to reveal changes in physical factors during vermicomposting and also compare the result between different types of composting mixtures. The pH was measured during vermicomposting and found that at initial stage pH was 5.6 ± 0.1 in 100 % leaf litter (LL), 5.8 ± 0.1 in 50% LL while 8.5 ± 0.1 in 100% cattle dung. At the end of process pH raised and set up to 8.1 ± 0.1 in 100 % leaf litter 8.0 ± 0.1 in 50% LL and 100% CD. Obtained result explore that temperate of 100 % leaf litter, 50 % leaf litter (LL) and 100 % cattle dung (CD) was slightly elevated (35.9, 36.5°C and 38.5°C ± 1°C respectively) at beginning phase and later came down to ambient level (21.5°C ± 1°C). The moisture content was recorded 48.25 % and 46.32 % in 100 % leaf litter, 50 % leaf litter (LL) respectively while 60.35 % recorded in 100 % cattle dung. During the initial time loss of water increased but latter stage was it was set at constant point. Reduction of biomass was also studied during process and found that in 100 % leaf litter biomass was reduce up to 22 cm; in 50 % leaf litter this reduction was found about 21cm while in 100 % cattle dung this reduction was found 8.6 cm.

**Keywords:** palash leaf litter, pH temperature, moisture, biomass reduction, vermicomposting