

DR. REKHA NAGWANSHI

ASSISTANT PROFESSOR
DEPARTMENT OF CHEMISTRY
GOVERNMENT MADHAV SCIENCE PG COLLEGE
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UJJAIN MP 456010



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Lenovo
Dr. Rekha Nagwanshi
Assistant professor
Department of chemistry
Government Madhav science PG college
Vikram university
456010

Ujjain MP

Teaching experience: 15 years

Research interest: Organic Chemistry, Photochemistry and nanomaterials

Research Publication: Vidwan-ID: 164086, (<https://vidwan.inflibnet.ac.in/myprofile>)

15 research paper in referred journals (2015-2020)

Chapters in Books: 1

1. Nano sensors for smart manufacturing ISBN: 978-0-12-823358-0, 2021 Elsevier
2. Russian Book Volga

Awards and Achievements:

UGC research award in 2016

Subject Related Activities:

1. Guided UG and PG students for chemistry Projects
2. Organised power point presentation of PG students on pericyclic reactions, organometallic chemistry etc.

3. PG students study tour to Pingleshwar
4. Name Game of Periodic table with PG students
5. Annual Refresher Course in Chemistry (ARPIT) by HRDC
Pt. Ravishankar Shukla University Raipur CG
6. Poster presentation on detection of organophosphate in "56th Annual
Convention of chemists 2019

Major Social engagements:

1. Blood donation camp
2. Plantation at Vikram university Ujjain and College
3. Cleaning at Kothi Campus with 10 MP NCC cadets
4. Celebration of Independence Day, Republic Day
NCC day with NCC cadets
5. Teacher parent scheme (Guidance, Counselling and solved
The problems of students)
6. Chemistry popularization by doing webinars

Teaching learning Pedagogy:

Interactive Video Lectures
Power Point Presentations
e-content Type
e-Notes in Pdf or doc format
Scanned Notes & images
Images drawn using various software
Random & shuffled questions based on QUIZ activity

Discussion Forums
Rubric usage for online evaluation

Google Scholar

	All	Since 2016
Citations	289	262
h-index	11	10
i10-index	11	10

Annexure 1

Publication: 23

[Influence of octanohydroxamic acid on the association behavior of cationic surfactants: Hydrolytic cleavage of phosphate ester](#)

ML Satnami, HK Dewangan, N Kandpal, R Nagwanshi, KK Ghosh

Journal of Molecular Liquids 221, 805-814, 2016

Impact factor: 4.850

[Protein nanoparticle interaction: A spectrophotometric approach for adsorption kinetics and binding studies](#)

SK Vaishnav, K Chandraker, J Korram, R Nagwanshi, KK Ghosh, ...

Journal of Molecular Structure 1117, 300-310, 2016

Impact factor: 2.463

[Adsorption kinetics and binding studies of protein quantum dots interaction: a spectroscopic approach](#)

SK Vaishnav, J Korram, R Nagwanshi, KK Ghosh, ML Satnami

Journal of fluorescence 26 (3), 855-865, 2016

Impact factor: 2.093

[Spectrofluorometric determination of mercury and lead by colloidal CdS nanomaterial](#)

ML Satnami, SK Vaishnav, R Nagwanshi, KK Ghosh

Journal of Dispersion Science and Technology 37 (2), 196-204, 2016

Impact factor: 1.479

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

HK Dewangan, N Kandpal, R Nagwanshi, ML Satnami

NISCAIR-CSIR, India, 2016

IJC: 0.489

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

N Kandpala, HK Dewangana, ML Satnami, R Nagwanshib

J. Indian Chem. Soc 93, 1-8, 2016

Impact factor: 0.158

Hydrolytic Cleavage of Paraoxon by Octanohydroxamate Ion in Cationic Microemulsions

ML Satnami, HK Dewangan, R Nagwanshi

International Journal of Chemical Kinetics 48 (10), 601-608, 2016

Impact factor: 1.531

PHOTOLYSIS OF FLUORENE AND 9-FLUORENONE A TOXIC ENVIRONMENTAL CONTAMINANT: STUDIES IN THE EFFECT OF SOLVENT AND INTENSITY OF THE SOURCE

R Nagwanshi, JS Solanki, S Bageriab, S Jain

International Journal of Engineering Technologies and Management Research 4 ..., 2017

Impact factor: 0.69, ISBN: 2454-1907

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

JS Solanki, A Bhardwaj, A Padidar, K Singh, R Nagwanshi

International Journal of Engineering Technologies and Management Research 4 ..., 2017

Kinetic Investigation of Micellar Promoted Pyridine based Oximate and Hydroxamate Catalysis on Phosphotriester Pesticides

HK Dewangan, R Nagwanshi, KK Ghosh, ML Satnami

Catalysis Letters 147 (2), 602-611, 2017

[Reactivity of hydroxamate ions in cationic vesicular media for the cleavage of carboxylate esters](#)

N Kandpal, HK Dewangan, R Nagwanshi, SK Vaishnav, KK Ghosh, ...

Journal of Surfactants and Detergents 20 (2), 331-340, 2017

[Green luminescent CdTe quantum dot based fluorescence nano-sensor for sensitive detection of arsenic \(III\)](#)

SK Vaishnav, J Korram, P Pradhan, K Chandraker, R Nagwanshi, ...

Journal of fluorescence 27 (3), 781-789, 2017

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

SK Vaishnav, K Patel, K Chandraker, J Korram, R Nagwanshi, KK Ghosh, ...

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 179, 155-162, 2017

[Mn²⁺ doped-CdTe/ZnS modified fluorescence nanosensor for detection of glucose](#)

SK Vaishnav, J Korram, R Nagwanshi, KK Ghosh, ML Satnami

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

[Antibacterial properties of amino acid functionalized silver nanoparticles decorated on graphene oxide sheets](#)

K Chandraker, R Nagwanshi, SK Jadhav, KK Ghosh, ML Satnami

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 181, 47-54, 2017

[An investigation of kinetic and physicochemical properties of vesicular surfactants with oximate and hydroxamate ions: Hydrolytic reactions of organophosphorus pesticides](#)

N Kandpal, HK Dewangan, R Nagwanshi, KK Ghosh, ML Satnami

Journal of Molecular Liquids 243, 178-186, 2017

[Hydrolytic Dephosphorylation of *p*-Nitrophenyl Diphenyl Phosphate by Alkyl Hydroxamate Ions](#)

N Kandpal, HK Dewangan, R Nagwanshi, KK Ghosh, ML Satnami

Journal of Surfactants and Detergents 21 (2), 209-220, 2018

[Gold nanoprobe for inhibition and reactivation of acetylcholinesterase: an application to detection of organophosphorus pesticides](#)

ML Satnami, J Korram, R Nagwanshi, SK Vaishnav, I Karbhal, ...

Sensors and Actuators B: Chemical 267, 155-164, 2018

[Micellar-accelerated hydrolysis of organophosphate and thiophosphates by pyridine oximate](#)

N Kandpal, HK Dewangan, R Nagwanshi, KK Ghosh, ML Satnami

International Journal of Chemical Kinetics 50 (11), 827-835, 2018

[A carbon quantum dot-gold nanoparticle system as a probe for the inhibition and reactivation of acetylcholinesterase: detection of pesticides](#)

J Korram, L Dewangan, R Nagwanshi, I Karbhal, KK Ghosh, ML Satnami

New Journal of Chemistry 43 (18), 6874-6882, 2019

[A colorimetric nanoprobe based on enzyme-immobilized silver nanoparticles for the efficient detection of cholesterol](#)

L Dewangan, J Korram, I Karbhal, R Nagwanshi, VK Jena, ML Satnami

RSC Advances 9 (72), 42085-42095, 2019

[Influence of pyridine oximate and quaternized pyridinium oximate ions on the hydrolysis of phosphate esters in cationic microemulsions](#)

N Kandpal, HK Dewangan, R Nagwanshi, KK Ghosh, ML Satnami

Journal of Dispersion Science and Technology 40 (4), 604-611, 2019

[CdTe QD-based inhibition and reactivation assay of acetylcholinesterase for the detection of organophosphorus pesticides](#)

J Korram, L Dewangan, I Karbhal, R Nagwanshi, SK Vaishnav, ...

RSC Advances 10 (41), 24190-24202, 2020

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