



Dr. Atresh Kumar Singh

Assistant Professor

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- 1. Name** : Dr. Atresh Kumar Singh
- 2. Father's Name** : Sri Nand Kumar Singh
- 3. Mother's Name** : Smt. Sonmati Devi
- 4. Department** : Chemistry
- 5. Date of Joining the University:** 02.07.2018
- 6. Total Teaching Experience** : **UG - 20 Years, PG - 10 Years**
- 7. Total Research Experience** : 20 Years

1. Area of Specialization

Coordination Chemistry, Synthetic Inorganic/ Organic Chemistry, Nanomaterials, Catalysis, Organometallic Chemistry

2. Academic Qualifications:

Examination	Board / University	Year	Subject / Specialization	Division
High School	U.P. Board	1988	Hindi, English, Mathematics-2, Science-2, Social Science, Biology	I st
Intermediate	U.P. Board	1990	Mathematics, Physics, Chemistry General Hindi, English,	I st
UG	D.D.U. Gorakhpur University, Gorakhpur	1993	Maths, Physics & Chemistry	I st
PG	D.D.U. Gorakhpur University, Gorakhpur	1996	Chemistry (Physical)	I st
Ph.D.	D.D.U. Gorakhpur University, Gorakhpur	2003	Chemistry	-

3. International/National award/recognition for academics

S. No.	Name of the award/recognition	Year of Award	National/International	Awarding Agency
1	UGC-BSR Research Start-Up Grant from UGC, New Delhi	2020	National	UGC, New Delhi
2	Outstanding contribution to the Research and Teaching in the field of Higher Education	2021	University Level	DDU Gorakhpur University, Gorakhpur

3	Outstanding contribution to the Research and Teaching in the field of Higher Education	2022	University Level	DDU Gorakhpur University, Gorakhpur
4	The certificate is awarded for serving as a reviewer for Environmental Progress & Sustainable Energy (Impact Factor = 2.824)	2022	International	WILEY
5	Acted as a reviewer for the New Journal of Chemistry (Impact Factor = 3.925)	2017	International	Royal Society of Chemistry
6	Acted as a reviewer for the Journal of Molecular Structure (Impact Factor = 3.841)	2013	International	Elsevier
7	Guest Lecture on "Effect of Green House Effect & Global Warming in Human Life"	2023	College Level	VBS Gov. D.C. Kampiyargang, Gorakhpur, India
8	Acted as a reviewer for the Journal of Polymer Bulletin (Impact Factor = 3.2)	2024	International	Springer Science

4. Ph.D. supervised

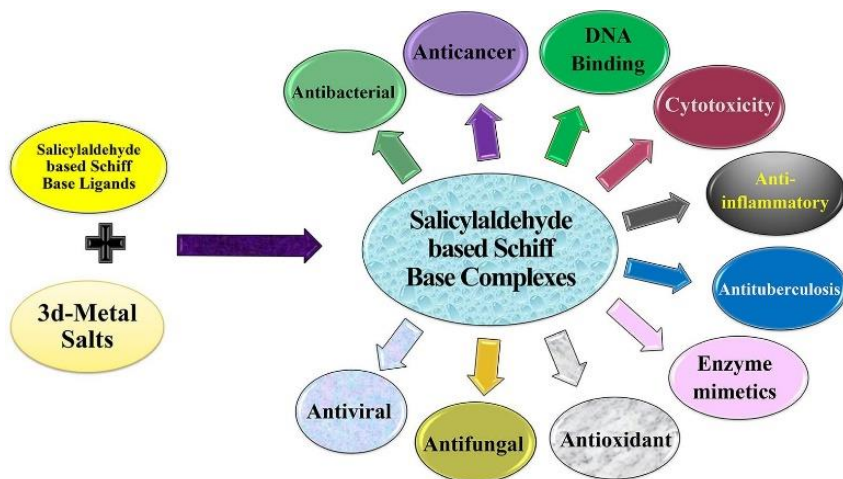
S. No.	Name of the Ph.D. Scholar	Title of the thesis	Year of registration of the scholar	Year of award of Ph.D.
1.	Manoj Kumar	Synthesis and characterization of Iron & Cobalt complexes containing N- & O-donor Ligands	2020	Ongoing

5. Research/Review Papers published

❖ Highest Impact Factor Publication: *Coord. Chem. Rev.*, **Impact factor = 24. 833**

➤ Best Five Publications:

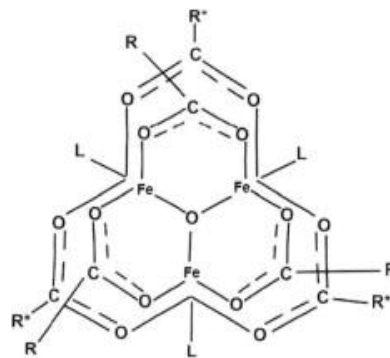
❖ Recent developments in the biological activities of 3d-metal complexes with salicylaldehyde-based N, O-donor Schiff base ligands, Manoj Kumar, **Atresh K. Singh ***, V. K. Singh, R. K. Yadav, A. P. Singh, S. Singh, *Coordination Chemistry Reviews*, 505 (2024) 215663, (**Impact factor = 24. 833**) (ISSN: 0010-8545) (***Corresponding author**). www.elsevier.com/locate/ccr. <https://doi.org/10.1016/j.ccr.2024.215663>.



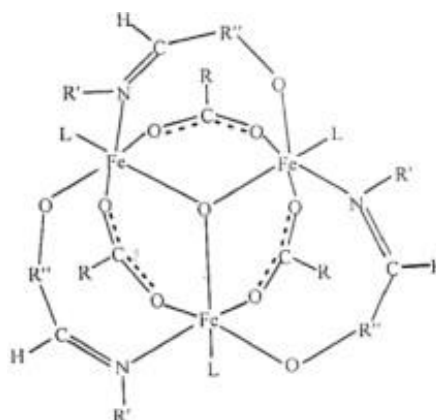
- Recent advances in 3d-block metal complexes with bi, tri, and tetradentate Schiff base ligands derived from salicylaldehyde and its derivatives: Synthesis, characterization and applications, M. Kumar, **Atresh K. Singh** *, Alok K. Singh, R. K. Yadav, S. Singh, A. P. Singh, A. Chauhan, *Coordination Chemistry Reviews*, 488 (2023) 215176 (**Impact factor = 24. 833**) (ISSN: 0010-8545) (*Corresponding author). www.elsevier.com/locate/ccr. <https://doi.org/10.1016/j.ccr.2023.215176>



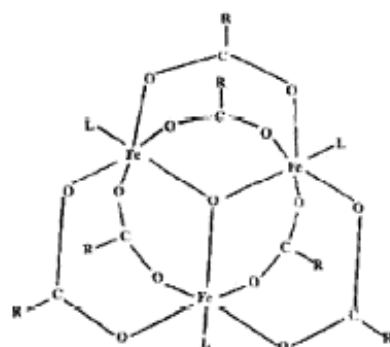
- Spectroscopic studies of oxo-centred, carboxylate-bridged, trinuclear mixed-valence iron (III, III, II) complexes with aromatic hydroxycarboxylic acids, **Atresh K. Singh***, A. K. Singh, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 422-428 (2013)112 (**Impact factor = 4.4**) (ISSN: 1386-1425) (*Corresponding author). <https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy>. doi: 10.1016/j.saa.2013.04.008.



- ❖ Synthesis and spectral characterization of trinuclear, oxo-centred, carboxylate-bridged, mixed-valence iron complexes with Schiff bases, **Atresh K. Singh***, A. K. Singh, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 96, (2012) 986-991, (**Impact factor = 4.4**) (ISSN: 1386-1425) (***Corresponding author**).
<https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy>. doi: 10.1016/j.saa.2012.07.130.

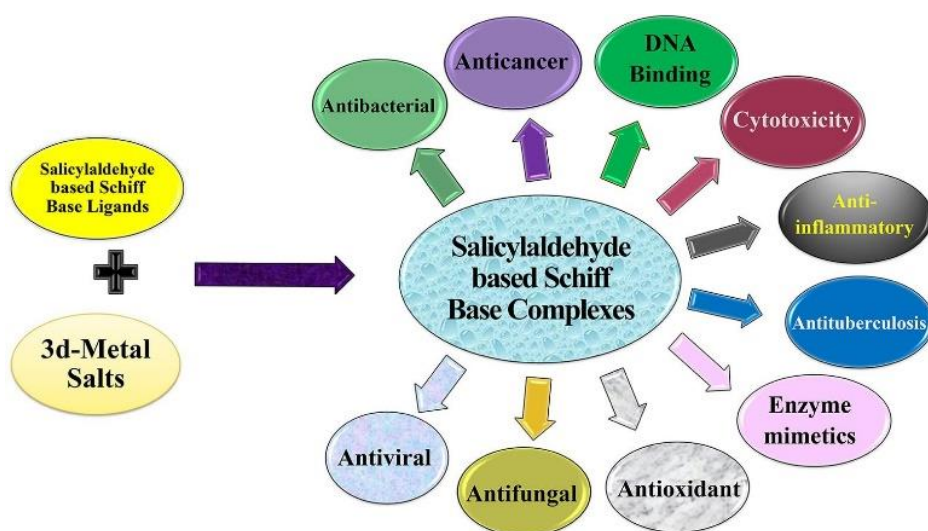


- ❖ Novel trinuclear, oxo-bridged materials of mixed-valence iron with fatty acids, B.P. Baranwal, S.S. Das, T. Gupta, **Atresh K. Singh**, *Progress in Crystal Growth and Characterization of Materials*, 45(1-2), (2002)147-153, (**Impact factor = 5.1**) (ISSN:0960-8974).
<https://www.journals.elsevier.com/progress-in-crystal-growth-and-characterization-of-materials>. DOI:10.1016/s0960-8974(02)00041-4.



➤ All Publications

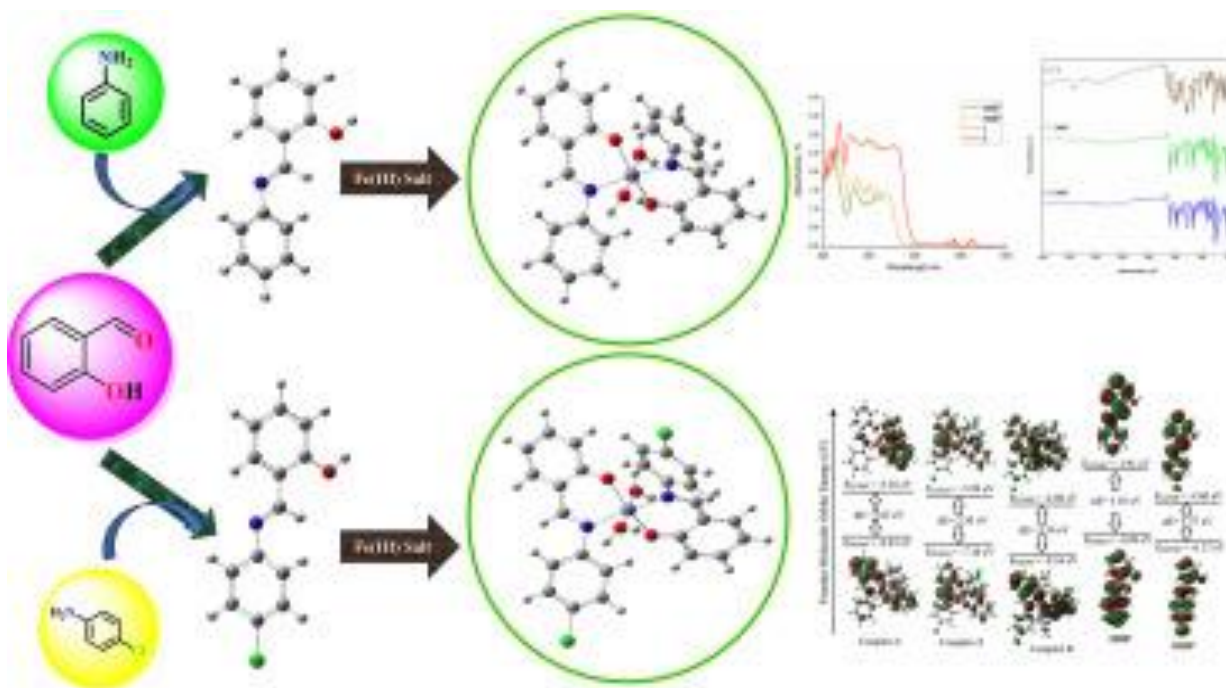
- ❖ Recent developments in the biological activities of 3d-metal complexes with salicylaldehyde-based N, O-donor Schiff base ligands, Manoj Kumar, **Atresh K. Singh ***, V. K. Singh, R. K. Yadav, A. P. Singh, S. Singh, *Coordination Chemistry Reviews*, 505 (2024) 215663, (**Impact factor = 24.338**) (ISSN: 0010-8545) (***Corresponding author**). <https://doi.org/10.1016/j.ccr.2024.215663>(Copy is attached).



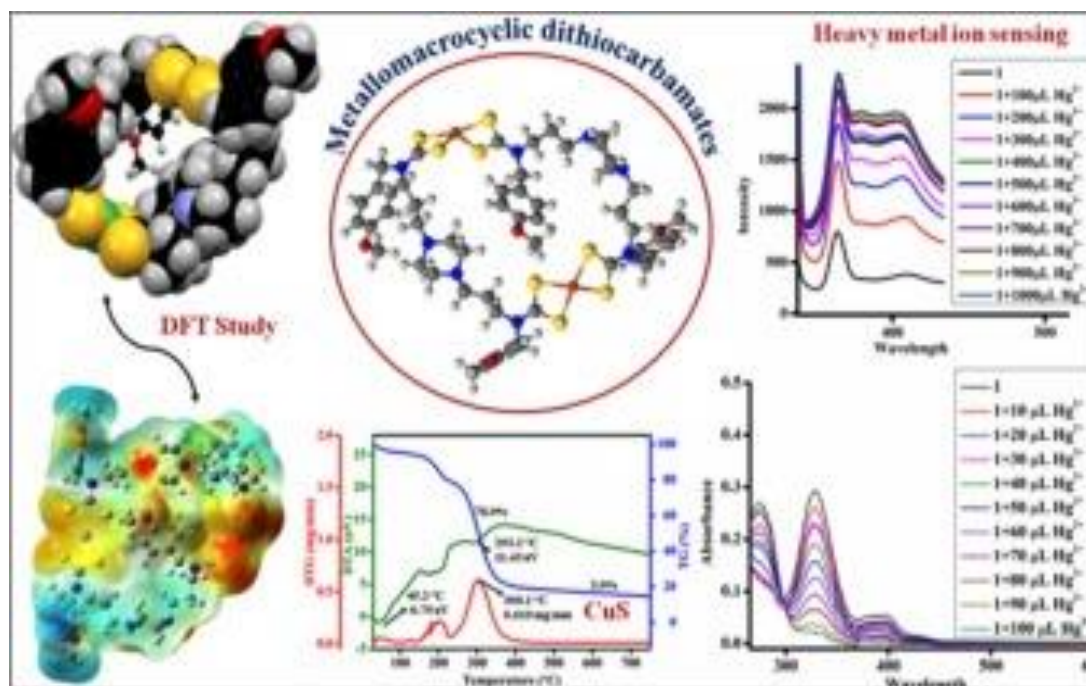
- ❖ Recent advances in 3d-block metal complexes with bi, tri, and tetradentate Schiff base ligands derived from salicylaldehyde and its derivatives: Synthesis, characterization and applications, M. Kumar, **Atresh K. Singh***, Alok K. Singh, R. K. Yadav, S. Singh, A. P. Singh, A. Chauhan, *Coordination Chemistry Reviews*, 488 (2023) 215176 (**Impact factor = 24.338**) (ISSN: 0010-8545) (***Corresponding author**). www.elsevier.com/locate/ccr. <https://doi.org/10.1016/j.ccr.2023.215176>. (Copy is attached).



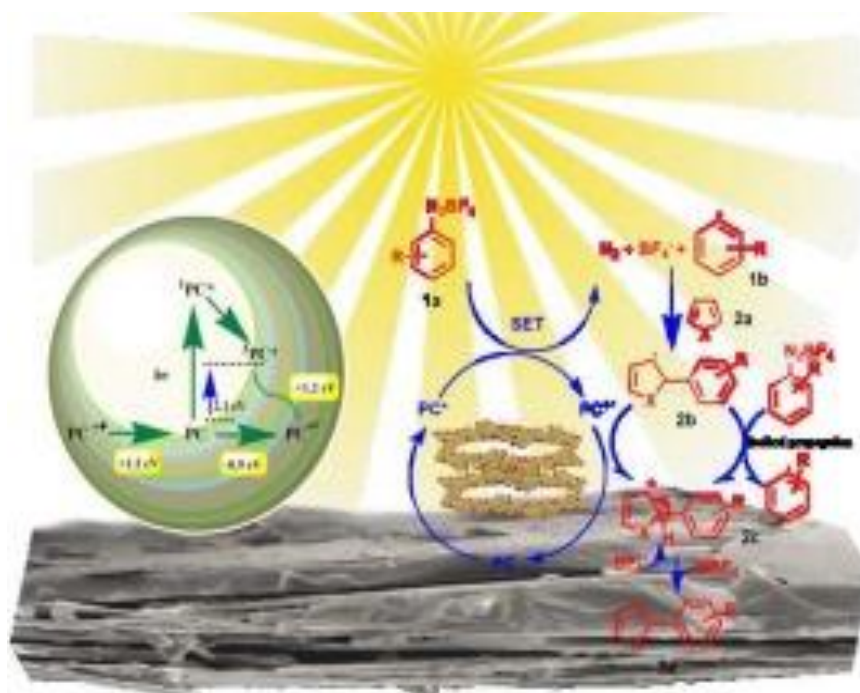
- ❖ Exploration of iron(III) Complexes with Bidentate N, O-Donor Schiff Base Ligands through Synthesis, Characterization, DFT, and Antibacterial Studies, Manoj Kumar, **Atresh K. Singh***, Satyam Singh, Alok K. Singh, Pradeep K. Rao, Rajesh K. Yadav, Atul P. Singh, U.N. Tripathi, *Journal of Molecular Structure* **1319(2) (2024) 139496** (*Corresponding author), 139496(2024) (Impact factor = 4.0) (ISSN 0022-2860), <https://doi.org/10.1016/j.molstruc.2024.139496>



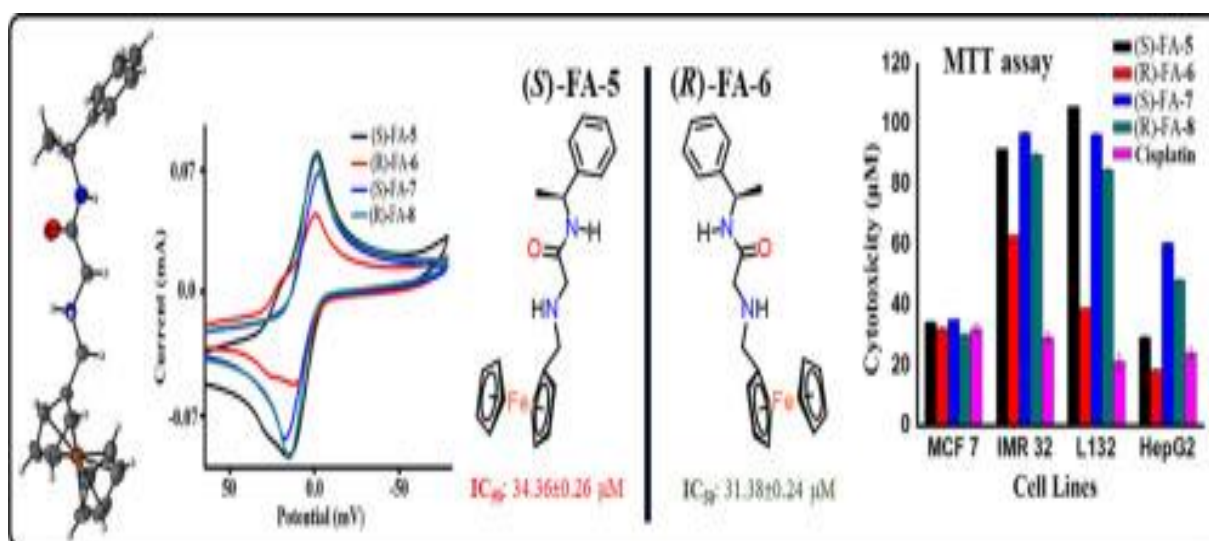
- ❖ H. Vats, R. Shahin, R. K. Yadav, A. K. Singh, **Atresh K. Singh**, David G. Churchill & Atul P. Singh (2024) Oxidized-Sulfur Decorated Two-Dimensional Cobalt(II) Porphyrin Covalent Organic Framework as a Photocatalyst and Proof-of-Action Study in Oxidative Cyclization of Thioamide. *Catal Surv Asia*. <https://doi.org/10.1007/s10563-024-09433-2>.
- ❖ F. Bano, R. K. Yadav, R. Shahin, S. Mishra, S. Singh, A. K. Dubey, Jin O. Baeg, Atul P. Singh, A. K. Singh, **Atresh K. Singh**, Pramod Kumar, Navneet K. Gupta, (2024) Highly efficient nitrogen-doped graphene coupled eosin-B photocatalyst for fixation and regeneration of N_2 and NADH cofactors under visible light, *Main Group Chemistry*, pp. 1-15, DOI: 10.3233/MGC-240036.
- ❖ R. Devi, S. Singh, K. Pal, R. K. Yadav, A. K. Singh, **Atresh K. Singh**, N. K. Gupta & Atul P. Singh (2024), Erythrosine B Loaded Sulfone Conjugated Pyrene-based Covalent Organic Framework as a Photocatalytic Tool for Oxidative Thioamide Cyclization, *Journal of Inorganic and Organometallic Polymers and Materials* (Impact factor = 3.9) <https://doi.org/10.1007/s10904-024-03314-x>
- ❖ *N,N'*-bis(3-dithiocarbamatopropyl) piperazine bridged metallomacrocyclic complexes of Ni(II), Cu(II) and Zn(II): Synthesis, characterization, photophysical, in-silico study and their potential utility in heavy metal ion sensing, Komal Kolte, Alka Singla, **Atresh K. Singh**, Arun Kumar Das, Vinay K. Singh,



- ❖ Synthesis of well-defined ester-linked covalent organic polymer and its potential applications in C–H bond activation, Renu Devi, S. Singh, V. S. Rana, O. Singh, K. Kumar, R. Shrivastava, R. K. Yadav, Atresh K. Singh, N. K. Gupta, Atul P. Singh, *Journal of Photochemistry and Photobiology A: Chemistry*, 447, (2024), 115248 (Impact Factor=5.14), <https://doi.org/10.1016/j.jphotochem.2023.115248>. (Copy is attached).



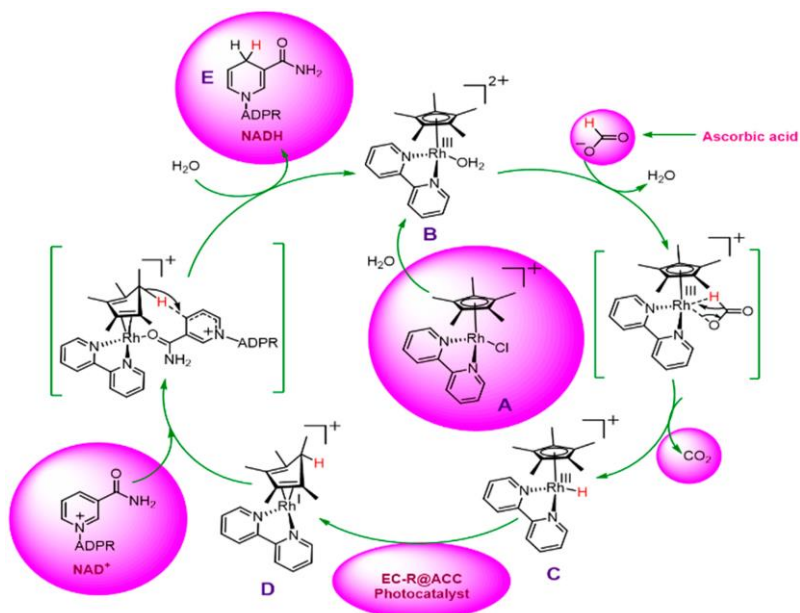
- ❖ Disulfide Bridged Two-Dimensional Erythrosine-B Polymer as a Tool for Photo-catalytic C-H Activation, Himanshu, R. Devi, S. Singh, R. K. Yadav, M. Nemiwal, N. K. Gupta, **Atresh K. Singh**, A. P. Singh, *Catalysis Surveys from Asia*, 2024 (Impact factor = 2.964). <https://doi.org/10.1007/s10563-023-09421-y>(Copy is attached).
- ❖ Sulfone-infused covalent organic polymer derived from poly(2-aminothiophenol) and erythrosine B as an excellent tool for C-H Activation, V. S. Rana, R. Devi, S. Singh, R. K. Yadav, R. Shrivastva, D. P. Murale, **Atresh K. Singh**, A. P. Singh *Main Group Chemistry*, (2023) 1-12 DOI: 10.3233/MGC-230092. (Copy is attached).
- ❖ Photocatalytic oxygenation of sulfide using solar light and ingenious GQDs@ AQ catalyst: Mechanistic and synthetic investigations, Rahnuma Siddique, Rajesh K Yadav, Satyam Singh, Rehana Shahin, Arun K Dubey, Alok Kumar Singh, **Atresh K Singh**, N. K. Gupta, Jin-Ook Baeg, Tae Wu Kim, *Photochemistry and Photobiology*, 2023, 1-8 (Impact factor = 3.521) <https://doi.org/10.1111/php.13859>.
- ❖ Dependence of anti-proliferative activity on chirality and redox potentials (Eh) of new ferrocene derivatives: Synthesis, crystallographic, photophysical and *in-silico* study, C. J. Savani, R. B. Pateliya, R. R. Srivastava, D. R. Vennapu, S. Nath, **Atresh K. Singh**, H. Roy, D. K. Rajak, and V. K. Singh, *Journal of Organometallic Chemistry* ,1001 (2023) 122854. (Impact factor = 2.345) (ISSN: 0022-328X), www.elsevier.com/locate/jorganchem DOI: <https://doi.org/10.1016/j.jorganchem.2023.122854>. (Copy is attached).



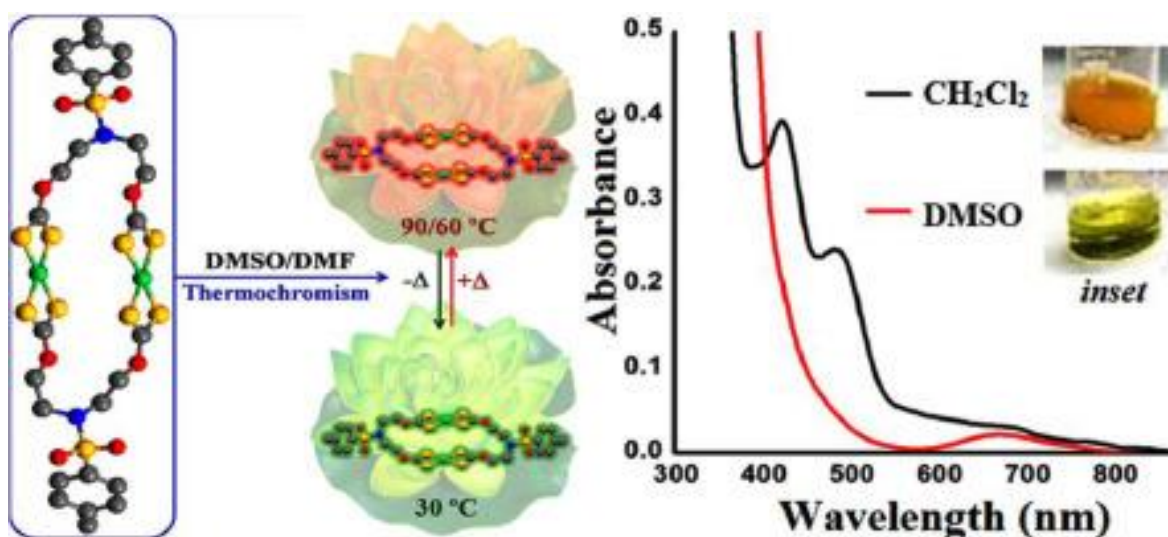
- ❖ Highly Efficient Self-Assembled Activated Carbon Cloth-Templated Photocatalyst for NADH Regeneration and Photocatalytic Reduction of 4-Nitro Benzyl Alcohol, V. Gupta, R. K. Yadav, A. Umar, A. A. Ibrahim, S. Singh, R. Shahin, R. K. Shukla, D. Tiwary, D. K. Dwivedi, A. K. Singh, **Atresh K. Singh**, S. Baskoutas, *Catalysts*, 13, (2023), 666. (*Impact factor* = 4.5) (ISSN:2073-4344) <https://www.mdpi.com/journal/catalysts> <https://doi.org/10.3390/catal13040666>. (Copy is attached).



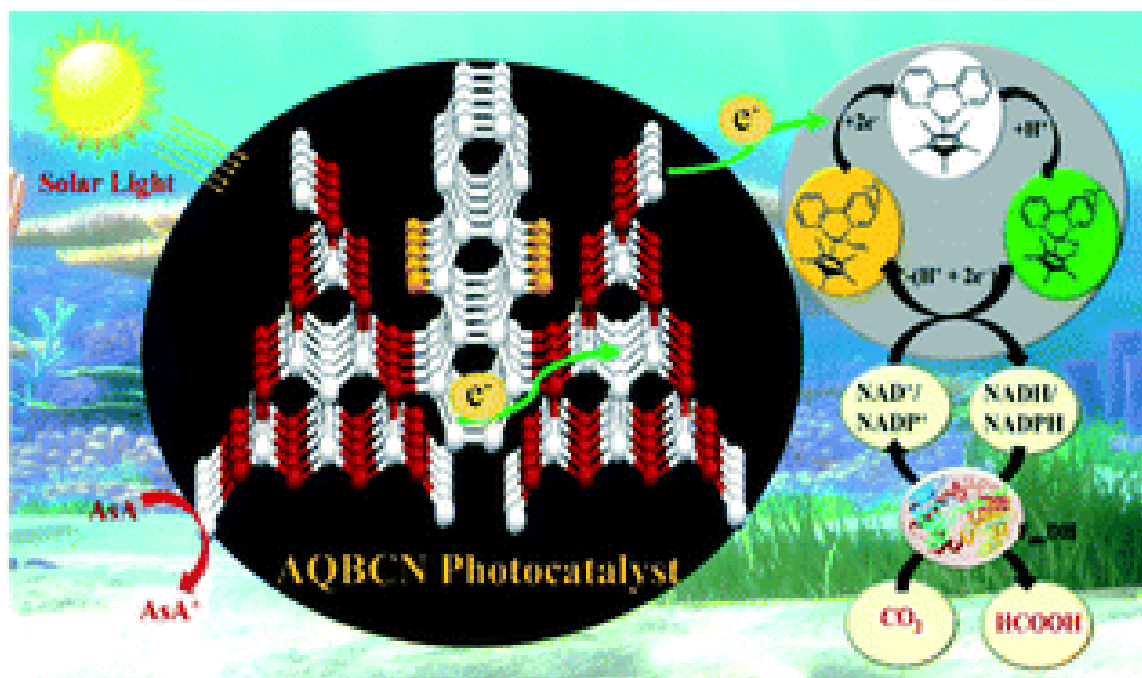
catalysts



- ❖ Macrocyclic NiII-Xanthate $[\text{Ni}^{\text{II}}_2-\mu_2\text{-bis-}\{(\kappa_2\text{S}, \text{S-S}_2\text{COCH}_2\text{CH}_2)_2\text{N}(\text{Ts})\}]$ Complex and a Cyclic Thiocarbonate Monomer: Synthesis, Crystallography, Photophysical, TD-DFT and Investigation of Thermochromism, R. Kadu, K. Kolte, C. Savani, S. S. Zade, A. A. Isab, **Atresh K. Singh**, V. K. Singh, *Journal of Molecular Structure*, 1287 (2023) 135657, (*Impact factor* = 4.0) (ISSN: 0022-2860), <https://www.sciencedirect.com/journal/journal-of-molecular-structure> DOI: [10.1016/j.molstruc.2023.135657](https://doi.org/10.1016/j.molstruc.2023.135657) (Copy is attached).



- ❖ Rational Design of graphitic carbon Nitride Catalytic- Biocatalytic as a Photocatalytic Platform for Solar Fine Chemical Production from CO₂, S. Singh, R. K. Yadav, T.W. Kim, C. Singh, P. Singh, A. P. Singh, A.K. Singh, **Atresh K. Singh**, J. O. Baeg, S.K. Gupta, *Reaction Chemistry & Engineering*, 7 (2022)1566-1572, (ISSN 2058-9883), *Impact factor* = 4.239 <https://www.rsc.org>. DOI: <https://doi.org/10.1039/D2RE00079B>(Copy is attached).



- ❖ Applications, Nanotoxicity, Environmental Aspects and Future Challenges of Nanotechnology in the Oil and Gas Industry: A Review, **Atresh K. Singh***, A.K Singh, S. Shankar, *R JC*, 15(3) (2022) 1943-1954. (ISSN 0976-0083), (*Corresponding author), <http://rasayanjournal.co.in>, DOI: <http://doi.org/10.31788/RJC.2022.1536921>(Copy is attached).
- ❖ Water Quality–A Review, S. S. Dubey, **Atresh Kumar Singh** and U. N. Tripathi, *Asian Journal of Research in Chemistry*, 15(5), (2022) 381-385, (ISSN 0974-4150), <https://www.ajrconline.org> DOI: 10.52711/0974-4150.2022.00067(Copy is attached).
- ❖ Impact of N-substituents on crystal packing of N-alkyl N' -tosylpiperazines and development of new polymorph of tosylbis (2-(tosyloxy)ethyl) amine: Synthesis, DFT, photophysical, cytotoxic property, R. Kadu, C. Savani, H. Roy, P.H. Soni, **Atresh Kumar Singh**, D.R. Vennapu, V. K. Singh, *Journal of Molecular Structure*, 1230, (2021)129635. (*Impact factor* = 4.0) (ISSN 0022-2860), <https://www.sciencedirect.com/journal/journal-of-molecular-structure> DOI: <https://doi.org/10.1016/j.molstruc.2020.129635>(Copy is attached).
- ❖ Spectroscopic studies of oxo-centred, carboxylate-bridged, trinuclear mixed-valence iron (III, III, II) complexes with aromatic hydroxycarboxylic acids, **Atresh K. Singh***, A. K. Singh,

<https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy>. doi: 10.1016/j.saa.2013.04.008.

- ❖ Synthesis and spectral characterization of trinuclear, oxo-centred, carboxylate-bridged, mixed-valence iron complexes with Schiff bases, **Atresh K. Singh***, A. K. Singh, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 96, (2012) 986-991, (**Impact factor = 4.4**) (ISSN: 1386-1425) (***Corresponding author**).
<https://www.sciencedirect.com/journal/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy>. doi: 10.1016/j.saa.2012.07.130.
- ❖ Synthesis and characterization of ternary carboxylato complexes of cobalt (II) with Schiff bases, B.P. Baranwal, **Atresh K. Singh**, T. Fatma, T. Gupta, *Indian Journal of Chemistry: Section A*, 45A, (2006) 2006-2010, (**Impact factor = 0.412**) (ISSN 0975-0975),
[http://nopr.niscair.res.in/bitstream/123456789/20039/1/IJCA%2045A\(9\)%202006-2010.pdf](http://nopr.niscair.res.in/bitstream/123456789/20039/1/IJCA%2045A(9)%202006-2010.pdf)
DOI: <http://op.niscair.res.in/index.php/IJCA/index>
- ❖ Synthesis, spectral and magnetic studies of some polynuclear mixed-ligand complexes of iron and cobalt with 3-mercaptopropionic acid, B.P. Baranwal, T. Gupta, **Atresh K. Singh**, *Indian Journal of Chemistry: Section A*, 42A, (2003) 1905-1909, (**Impact factor = 0.412**) (ISSN 0975-0975),
<http://nopr.niscair.res.in/bitstream/123456789/20718/1/IJCA%2042A%288%29%201905-1909.pdf> DOI: <http://op.niscair.res.in/index.php/IJCA/index>.
- ❖ Synthesis and characterization of some polynuclear mixed carboxylates of cobalt (II), B. P. Baranwal, S. S. Das, T. Gupta, **Atresh K. Singh**, *Revue Roumaine de Chimie*, 48 (1) (2003) 15-19, (**Impact factor = 0.41**) (ISSN 0035-3930), <https://revroum.lew.ro>.
- ❖ Novel trinuclear, oxo-bridged materials of mixed-valence iron with fatty acids, B.P. Baranwal, S.S. Das, T. Gupta, **Atresh K. Singh**, *Progress in Crystal Growth and Characterization of Materials*, 45, (2002)147-153, (**Impact factor = 5.1**) (ISSN:0960-8974).
<https://www.journals.elsevier.com/progress-in-crystal-growth-and-characterization-of-materials>. DOI:10.1016/s0960-8974(02)00041-4.

6. Books and chapters in edited volumes / books published

S No.	Title of the book	National / international	Year of publication	ISBN number	Affiliating Institute at the time of publication	Name of the publisher
1.	Advanced Physical Chemistry	National	2021	978-81-938174-6-9	D.D.U. Gorakhpur University, Gorakhpur	Kanha Publishing House
2.	Chemical Dynamics and Coordination Chemistry	National	2022	978-93-93509-09-3	D.D.U. Gorakhpur University, Gorakhpur	Discount Group of Publication
3.	Fundamentals of Chemistry and Quantitative Analysis	National	2023	978-81-956677-4-1	D.D.U. Gorakhpur University, Gorakhpur	Kanha Publishing House

7. Professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes

S. No.	Year	Title of the professional development Programme	Date and Duration (from - to)
1.	2020	118 th Orientation Programme	From 04-01-2020 to 24-01-2020
2.	2021	12 th Refresher Course in Chemistry	From 11-09-2021 to 24-09-2021
3.	2021	e- faculty development Programme	From 10- 05 -2021 to 15- 05 2021
4.	2021	Faculty Development Programme	From 23-06-2021 to 29-06-2021
5	2023	13 th Refresher Course in Chemistry	From 08-12-2023 to 21-12-2023

8. Research projects sponsored by government agencies

S. No.	Name of the principal Investigator	Name of the Research Project	Name of funding agency	Amount/F und provided	Year of sanction	Duration of the project	Status (Completed/ Ongoing)
1.	Dr. Atresh Kumar Singh	UGC-FRPS Start-Up Grant	U.G.C. New Delhi	10 Lakhs	2020	02 Years	Completed

9. Patents filed/granted

S. No.	Name of the patent filed/granted	Patent Number	Year of filing/award/publish of patent
1.	Rational Design of Graphitic Carbon Nitride Catalytic- Biocatalytic as a Photocatalytic Platform for Solar Fine Chemical Production from CO ₂	Application Number: 202311014047	2022
2	C-H Bond Activation Enabled Ester-Linked Covalent Organic Polymer And Method For Synthesis Thereof	Application No- 202311088285	2023
3	Disulfide Bridged Two-Dimensional Erythrosine-B Polymer as a Tool for Photo-catalytic C-H Activation	CU 3373	2024

10. E-content is developed

i. For e-PG-Pathshala, ii. For CEC (Under Graduate), iii. For SWAYAM, iv. For other MOOCs platform, v. For NPTEL/NMEICT/any other Government Initiatives

Name of the module developed	Platform on which module is developed	Date of launching e- content	Link to the relevant document and facility available in the institution
Schrodinger Equation for H Atom	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Separation of Variables	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Solutions of r θ & Φ -equations	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Aromaticity & Antiaromaticity	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302file/
Gouy Chapman Model	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Helmholtz-Perrin Model of EDL	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Corrosion and factors affecting the corrosion	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Prevention of corrosion	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Stern Model OF THE ELECTRICAL DOUBLE LAYER	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
HMO Theory for linear and monocyclic polyenes	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Huckel MOs and orbital energies for the allyl radical	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Huckel Molecular Orbital Theory for Conjugated Systems	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302

Intermolecular Potentials	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Laws of Photochemistry	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Quantum Yield	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Jablonski Diagram	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Fluorescence	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Phosphorescence	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Photoluminescence	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302
Nuclear Models	e-pathshala of DDUGU	2020	https://erp.ddugu.ac.in/faculty_profile/faculty_profile_1.aspx?uid=302

11. Details of Conference/Seminar/ Workshop attended -

- ❖ Participated & presented a research paper on 'Carbon Nanotubes in Healthcare: Multifaceted Applications' at the International Conference on "Multifaceted Applications of Chemical Sciences (ICMACS-2024) on 30 & 31 March 2024" organized by the Department of Chemistry, M.L.K. P.G. College Balrampur, U.P., India.
- ❖ Participated & delivered an invited lecture on "Nanotechnology for Humanity" at the National Conference on "Recent Trends in Chemical Sciences Research and Future Prospects"(NCRTCSRFP-2024)" organized by the Department of Chemistry, St.Andrews P.G. College, Gorakhpur
- ❖ Participated & presented a research paper on "Application of Nanomaterials and Drilling Engineering in Petroleum Industry" at the National Conference on "Molecules to Materials for Sustainable Development" organized by the Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur.
- ❖ Participated in the one-day workshop on " NEP-2020: CREATE AWARENESS BY ACCADEMIC COMMUNITY", organized by D.D.U. Gorakhpur University Gorakhpur, 29 August 2022.
- ❖ Participated & presented a research paper on "Role of the Nath Panth in the Propagation of Yoga" in a three-day International Conference on 'Global Contribution of Nath Panth, organized by D.D.U. Gorakhpur University Gorakhpur, 20-22 March 2021.
- ❖ Participated & presented a research paper on "Environmental pollution by heavy metals" in the National Conference on Omics for Food, Health and Environmental, 2020(OFHE-2020), organized by the Department of Biotechnology, D.D.U. Gorakhpur University Gorakhpur, 14 & 15 February 2020.
- ❖ Participated & presented a research paper on "Synthesis and spectral characterization of mixed ligand complexes of cobalt (II) containing higher fatty acids and hydroxycarboxylic acids" in the National Conference on "Smart Materials and Sustainable Technologies" Organized by the Department of Chemistry, D.D.U. Gorakhpur University Gorakhpur, 23- 24 February 2019.
- ❖ Participated & presented a Lecture on the Use of Hindi words for scientific words in chemistry in a National seminar on "Use of Technical words in the teaching of science" Organized by the Commission for Scientific and Technical Terminology, Ministry of HRD, Department of Higher Education in M.G.P.G. College Gorakhpur, 08-09 February 2019.

- ❖ Participated & presented a research paper on “Iron Oxide Nanomaterials: Features and applications” in the National Symposium on "Advanced Materials Science" Organized by the Department of Physics, D.D.U. Gorakhpur University Gorakhpur, 07 & 08 December 2018.
- ❖ Participated & presented a research paper on “Pollutants of Emerging Concern” in International conference on "Advances in Biological and Environmental Research for Human Welfare, Organized by the Department of Zoology, D.D.U. Gorakhpur University Gorakhpur, 16- 18 November, 2018.
- ❖ Participated & presented a research paper on” Oxo-centered Carboxylate- bridged trinuclear mixed-valence iron complexes, at the International Conference on “Emerging Trends in Chemical Sciences ‘organized by the Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur, February 24th - 25th, 2018.
- ❖ Participated & presented research paper “Synthesis, reactivity and spectroscopic studies on iron (III) complexes with Schiff base ligands” in an international conference on “Green Chemistry & Environmental Health” organized by M.B.S. Gorakhpur, September 25th- 26th, 2017.
- ❖ Participated & presented a research paper in the National Seminar on “Structural Chemistry” organized by the Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur, August 08th, 2015.
- ❖ Participated & presented a research paper in National Seminar on“ Recent Advances in Chemical Sciences” organized by the Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur(under UGC-DSA Programme) , March 28th– 29th , 2007.
- ❖ Participated in the National Seminar on “Thermodynamics & Reaction Dynamics” organized by Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur, March 23rd– 25th, 2003.
- ❖ Participated in the 48th BRNS-IANCAS National Workshop on “Radiochemistry & Applications of Radioisotopes”, conducted jointly with the Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur and Indian Association of Nuclear Chemists and Allied Science, October, 19-28, 2002.
- ❖ Participated & presented research paper in the National Seminar on “Advanced Materials ” organized by the Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur, March 22-24, 2002.
- ❖ Participated & presented research paper in the National Seminar on “Heterocyclic Chemistry- New Dimensions”, organized by the Department of Chemistry, Gorakhpur, March, 18-20, 2001.
- ❖ Participated & presented research paper in the National Symposium on “Chemical Sciences: Advancing Frontiers” jointly organized by CDRI, Lucknow & Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur, June 3rd- 4th, 2001
- ❖ Participated in the Twelfth National Symposium and Workshop on “Thermal Analysis” jointly organized by the Indian Thermal Analysis Society (ITAS) and Department of Chemistry, D.D.U. Gorakhpur University, Gorakhpur, March 26th- 29th, 2000.
- ❖ Participated in the NEP-2020: Create Awareness By Academic Community, one day Work, organized by the D.D.U. Gorakhpur University Gorakhpur, 20-22 March 2021.

12. NATIONAL/ INTERNATIONAL WEBINAR / e- WORKSHOP PARTICIPATED:

- ❖ Participated in One Week National e- Workshop on “Innovation & Intellectual Property Rights organized by Innovative Technology Enabling Centre, CSIR-IMMT, Bhubaneswar, 12-17 June 2023
- ❖ Participated in One Week National e- Workshop on “Innovation & Intellectual Property Rights organized by Innovative Technology Enabling Centre, CSIR-IMMT, Bhubaneswar, 14-18 June 2021.
- ❖ Participated in the International webinar on “Current Trends and Future Prospective of Chemistry in Pandemic – Era” organized by the Department of Chemistry, D.D.U. Gorakhpur University Gorakhpur, 28- 29 September, 2020.
- ❖ Participated in the International webinar on “Pandemic Era of Covid-19: Where we Stand ? Where we Go ?” organized by the Department of Zoology, D.D.U. Gorakhpur University Gorakhpur, 09-10 June 2020.
- ❖ Participated in the International webinar on “Post Covid 19 startup Opportunities for Youth, organized by the Department of Commerce, H.C.P.G. College, Varanasi(U.P.), 14 June 2020.
- ❖ Participated in the National webinar on “Climate Change: Local Actions to Global Challenges, organized by H.C.P.G. College, Varanasi (U.P.), 27 June 2020.
- ❖ Participated in an Online Workshop on “Computer Added Drug Design using BIOVIA Discovery Studio’ organized by the Department of Physics, D.D.U. Gorakhpur University Gorakhpur, 13-14 August 2020.
- ❖ Participated in the national webinar on “Medicinal and Aromatic Plants for Boosting Immunity in the Era of COVID-19” organized by the Department of Botany, D.D.U. Gorakhpur University Gorakhpur, 29 May 2020.
- ❖ Participated in the National webinar on “Key Issues and Challenges for Human Resources Management (HRM) During and Post COVID-19, organized by the Department of Commerce, H.C.P.G. College, Varanasi (U.P.), 20 June 2020.
- ❖ Participated in an Online Workshop on “Computer Added Drug Design using BIOVIA Discovery Studio’ organized by the Department of Physics, D.D.U. Gorakhpur University Gorakhpur, 13-14 August 2020.
- ❖ Participated in the webinar on “Leveraging Science and Technology to Combat COVID-19” organized by the Faculty of Science, D.D.U. Gorakhpur University Gorakhpur, 23- 24 May 2020.

13. Any other information: Administrative/ Other Academic Experiences

- Assistant Proctor
- Alumni committee member
- NEP mentor at the U.G. level
- Chair Chairperson of Tug of War
- Member of e- Content Quality Assessment Committee
- Member of BOS
- Member of Council of Science Faculty
- Coordinator in U.G label Entrance Exam-2020
- Member of Departmental Committee
- Coordinator in B. Ed. Entrance Exam-2023