

PROF. R. K. SHARMA



Address: B-109, Department of Chemistry, University of Delhi, Delhi-110007

Email: rksharmagreenchem@hotmail.com

Phone No: 91-11-27666250 (tel/fax) **Mobile No:** 9958313101

Web-Page: <http://greenchem.du.ac.in>

Education Qualifications

- **Ph.D.**, Chemistry Department, University of Delhi, Delhi, India, **1986**
- **M.Phil.**, Chemistry Department, University of Delhi, Delhi, India, **1982**

Career Profile

Organization	Designation	Duration	Role
Kumamoto University Japan & Institute of Medical Science University of Tokyo Japan	Japan Society for Promotion of Science (JSPS) Post-Doctoral Fellow	1998 2002	Research
University of Delhi	Reader	Oct 2004-Oct 2005	Research and Teaching
University of Delhi	Professor	26 th Oct 2005-contd.	Research and Teaching
Deakin University, Australia	Honorary Professor	2019	Research and Teaching

Administrative Assignments

- Provost GWYER HALL, University of Delhi (2015-2020)
- Convener Inorganic Section
- Convener, Undergraduate Examination, University of Delhi
- Convener, Revising Syllabus of Undergraduate courses of Chemistry, University of Delhi based on LOCF
- Secretary Staff Council
- Acted as a Member of various committees of the Department e.g. Bill Committee, Purchase Committee etc.

Areas of Interest / Specialization

- Green Chemistry
- Development of Green Methods
- Development of functionalized silica gel for their applications as scavengers, sensors and catalysts.
- Chemical Speciation and Molecular Modeling Studies for Designing of novel metal-chelating inhibitors of transcription factor NF- κ B-DNA binding.

- Clean Oxidation Process.
- Designing and Synthesis of Magnetite (Fe_3O_4) Silica Based Organic-Inorganic Hybrid Nanocatalysts.

Subjects Taught

More than thirty years teaching experience of Post-graduate Classes

Courses taught:

- Bio-inorganic Chemistry
- Complexation in Analytical Chemistry
- Group Theory
- Metal ion Catalyzed Organic reactions
- Organometallic Chemistry
- d- & f- Block Metal Ions

Research Guidance

1. Supervision of awarded Doctoral Thesis - 29 (Twenty-Nine)

1. **Sherly Joseph, 1998**, Investigation on the Chelation Behaviour of anti-AIDS Chelators, **University of Delhi.**
2. **Sachin Mittal, 2000**, Designing, Synthesis and Use of Chelating Resins for Separation and Preconcentration of Trace Metal Ions and their Uses in the Estimation of Metal Ions in Various Samples, **University of Delhi**
3. **Aparna Rathi, 2001**, Studies on Advanced Oxidation Process for Photo degradation of Azo Dyes, **University of Delhi.**
4. **Shallu Sachdeva, 2002**, Metal Ions-7,8-Dihydroxy-4-methyl Coumarin Antioxidant Interactions: Studies based on Chemical Speciation, Stability Constants and Molecular Modelling, **University of Delhi.**
5. **S. Mary Celin Sandana, 2003**, Studies on Photodegradation of Nitro-Organic Explosives in aqueous phase, **University of Delhi.**
6. **Ashu Goel, 2004**, Designing and Synthesis of Functionalized Polymers for Preconcentration and Determination of Trace Metal Ions: A Green Chemistry Approach, **University of Delhi.**
7. **Shilpa Chopra, 2005**, Studies on the Interaction of Metal Ions with Potential NF- κ B-DNA Binding Inhibitors, **University of Delhi.**

8. **Rajeev Goel, 2006**, Studies on Arsenic Remediation and Development of Arsenic Removal Kit Utilizing Various Adsorbents, **University of Delhi.**
9. **Hament K. Rajor, 2007**, Chemical Speciation, Molecular Modeling and Antioxidant Activity Studies on Polyhydroxyphenols and their Metal Complexes, **University of Delhi.**
10. **Shuchi Dhingra, 2009**, Designing and Synthesis of Functionalized Silica Gels and their Applications as Metal Scavengers, Sensors and Catalysts: A Green Chemistry Approach, **University of Delhi.**
11. **Parul Pant, 2010**, Synthesis, Characterization and Applications of Functionalized Amberlite XAD-16 in Metal Ion Extraction and Catalysis, **University of Delhi.**
12. **Chetna Sharma, 2011**, Synthesis, Characterization and Applications of silica immobilized Metal Complexes as Sustainable Heterogeneous Catalysts for Oxidative Bromination, Esterification and Condensation Reactions, **University of Delhi.**
13. **Deepti Rawat, 2012**, Synthesis, Characterization and Applications of Silica Supported Metal Catalysts for Transesterification, Acetylation and Multicomponent Reactions, **University of Delhi.**
14. **Amit Pandey, 2013**, Synthesis, Characterization and Applications of Silica Based Organic-Inorganic Hybrid Materials as Chelating Resins for Metal Ion Extraction and Catalysts for Various Organic Transformations, **University of Delhi.**
15. **Shikha Gulati, 2013**, Synthesis, Characterization and Investigation of Catalytic activity of Metallophthalocyanines anchored on Silica gel for various Organic Transformations, **University of Delhi.**
16. **Garima Gaba, 2014**, Studies on the interaction of metal ions with curcumin and its analogues: NF- κ B-DNA binding inhibitors, **University of Delhi.**
17. **Anil Kumar Kalotra, 2015**, Synthesis, Characterization and Applications of Functionalized Silica Gel as Efficient Sorbent for the Selective Extraction and Determination of Cr(III), Cu(II), Ni(II) and Mo(VI) Ions, **University of Delhi.**
18. **Aditi Puri, 2015**, Synthesis, Characterization and Applications of Functionalized Silica for Selective and Cyclic Recovery of Zn(II), Cu(II), Cd(II) and Pb(II), **University of Delhi.**
19. **Yukti Monga, 2015**, Synthesis and characterization of silica-magnetite based organic-inorganic hybrid nanocatalysts for various organic transformations, **University of Delhi.**

20. **Shivani Sharma, 2016**, Design, Synthesis and Application of Silica Nanospheres based Organic-Inorganic Hybrid Materials as Sensor for Copper ions and Catalysts for Oxidative Amination and Coupling reactions, **University of Delhi.**
21. **Manavi Yadav, 2016**, Design, Synthesis and Application of Nano Magnetic Silica supported Transition Metal Catalysts for Cross-Coupling and Oxidation Reactions, **University of Delhi.**
22. **Sriparna Dutta, 2019**, Fabrication of sustainable magnetically retrievable core-shell nanocatalysts and their applications in industrially significant C-H activation, tandem oxidative cyclization, reductive amination and enamination reactions, **University of Delhi.**
23. **Rashmi Gaur, 2019**, Designing, Characterization and Application of Magnetically Retrievable Transition Metal Nanocatalysts for CO₂ Fixation and Other Organic Transformations, **University of Delhi.**
24. **Radhika Gupta, 2020**, Design, Synthesis and Application of Recyclable Ionic Liquids Supported Silica-Based Magnetic Nanocatalysts for Various Organic Transformations, **University of Delhi.**
25. **Aditi Sharma, 2020**, Unlocking High Catalytic Performance of Nanostructured Graphene Oxide and Cobalt Oxide Based Materials for Amidation, C-H Activation, Cyclization and Condensation Reactions, **University of Delhi.**
26. **Gunjan Arora, 2021**, Functionalized Hollow Magnetic Materials as Nanoreactors: Fabrication and Catalytic Applications in C-S, Cross-Coupling, Halogenation and Multi-Component Reactions, **University of Delhi.**
27. **Sneha Yadav, 2021**, Unraveling the Potency of Magnetically Responsive Metal Organic Framework Composites: Designing, Fabrication, Characterization and Catalytic Applications in C-H Activation, Multicomponent Click Coupling and Condensation Reactions, **University of Delhi.**
28. **Pooja Rana, 2022**, Visible Light Mediated Cross Dehydrogenative Coupling, C-H Arylation, Cyanation and CO₂ capture via the Design and Development of Surface Engineered Nanosized Photocatalysts, **University of Delhi.**
29. **Bhavya Arora, 2022**, Design & Synthesis of Recyclable Magnetic Halloysite Nanotubes and Ferrite Supported Catalysts: Applications in the Degradation of Emerging Contaminants and Organic Transformations, **University of Delhi.**

2. Supervision of Doctoral Thesis, under progress - 2 (Two)

3. Supervision of awarded M. Phil dissertations - 15 (Fifteen)

- ❖ **Sherly Joseph, 1994**, Metal-Tetracycline and Metal-Nalidixic Acid Interaction: Formation Constant, Chemical Speciation and Molecular Modelling Studies.
- ❖ **Parul, 1999**, Solid Phase Extraction and Estimation of Cadmium Using Glycine Immobilized Cellulose Chelating Resin.
- ❖ **Deepti Goel, 1999**, Metal-Cephalothin Interaction: Formation Constant, Lipophilicity Measurement, Chemical Speciation and Molecular Modelling Studies.
- ❖ **Reena Shrestha, 1999**, Metal-Pyridylcarboxypropanamide and Metal-Pyridylcarboxybenzamide Interactions: Stability Constant, Chemical Speciation and Molecular Modelling Studies.
- ❖ **Shilpa Chopra, 2000**, Chemical Speciation and Molecular Modeling Studies on Interaction of Metal Ions with a Quinolone Drug Analogue.
- ❖ **Hament K. Rajor, 2001**, Formation Constants, Chemical Speciation and Molecular Modeling Studies on Complexation Behaviour of Gallic Acid with Metal Ions present in Biological System.
- ❖ **Satyakam Patnaik, 2002**, Interaction of Metal Ions with Ciprofloxacin: Studies Based on Chemical Speciation and Molecular Modeling.
- ❖ **Chandan K. Singh, 2003**, Chemical Speciation and Molecular Modeling Studies on Complexation Behaviour of 5,7-Dihydroxy-4-Methyl Coumarin with Metal Ions Present in Biological System.
- ❖ **C. Chelladurai, 2005**, Synthesis, Spectroscopic and Molecular Modelling Studies on Ln(III)-Chrysin Complex.
- ❖ **Vineet Dua, 2006**, Designing and Synthesis of Aurin Tricarboxylic Acid Immobilized Silica Gel for Selective Determination of Al(III).
- ❖ **Deepti Rawat, 2006**, Synthesis and Characterization of Surface Modified Silica Supported Zn(II)Schiff Base Complex for use as Catalyst in Transesterification Reaction.
- ❖ **A.D. Tiwari, 2007**, Studies on Inhibition Mechanism of transcription factor NF- κ B-DNA binding by Pyrogallol red on the basis of their interaction with metal ions.
- ❖ **Gauri Ahuja, 2008**, Solventless Synthesis of Porphyrins and One Pot Synthesis of Nickel Porphyrin.

- ❖ **Kanika Sharma, 2009**, Solventless One-Pot Synthesis of Cobalt and Copper Carboxamide Phthalocyanine Complexes.
- ❖ **Seema Gautam, 2010**, Synthesis and Application of 2,2'-Dipyridyl Ketone (DPK) Immobilized Silica Gel for Analysis of Copper (II) Metal Ion.

Publication Profile

1. Books/Monographs (Authored/Edited)

- Edited a book entitled “Green-Bond Forming Reactions: Carbon-Carbon and Carbon-Heteroatom” published by De-Gruyter Publications, 2022, ISBN 978-3-11-075949-5.
- Edited a book entitled “Green-Bond Forming Reactions: Synthesis of Bioactive Scaffolds” published by De-Gruyter Publications, 2022, ISBN 978-3-11-079707-7.
- Edited and authored a book entitled “Green Chemistry for Beginners” published by Stanford Publications, 2021, ISBN 9789814316965.
- Edited and authored a book entitled “An Introductory Text on Green Chemistry” published by Wiley Publications, 2020, ISBN: 978-81-265-5407-2.
- Edited and authored a book entitled “Silica based Organic-Inorganic Hybrid Materials: Application in the field of catalysis” published by World Scientific Publishing Europe Ltd, Sustainable Chemistry Series, 2020, Vol. 4, ISSN: 2514-3042.
- Edited and authored a book entitled “Hazardous Reagent Substitution: A Pharmaceutical Perspective” published by Royal Society of Chemistry, Green Chemistry Series, 2017, ISBN-978-1-78262-050-1.
- Content Editor of Environmental Chemistry Module (MEV-13) published by Indira Gandhi National Open University, 2021, ISBN: 978-93-90773-59-6.
- R.K. Sharma, I.T. Sidhwani and M.K. Chaudhuri, 2012, Green Chemistry Experiment: A monograph I.K. International Publishing House Pvt. Ltd. New Delhi. (ISBN 978-93-81141-55-7).
- R.K. Sharma and S. Dhingra, 2011, Functionalized silica gel as metal scavenger, sensor and catalyst LAP Lambert academic, publishing GmbH & Co, ISBN 978-3-8443-1991-0.
- M.K. Chaudhuri, R.K. Sharma, and A. Sharma, 2006, Edited collection of Green Chemistry articles written by World leaders in Green Chemistry from US and India in the form of a book as Proceedings of the Indo-US S & T Forum workshop on Green Chemistry published by NISCAIR (CSIR) and also written an article on Phyto-extraction of Heavy metals.
www.niscair.res.in/sciencecommunication/ScholarlyBooks/scholarlybooks.htm

- Author of Bio-inorganic Chemistry E-book Module for National Science Digital Library (NSDL), a X Five Year Plan Network Project of the CSIR with the active collaboration of UGC, MHRD.
<http://nsdl.niscair.res.in/>
- Prepared a monograph on Green Chemistry Experiments for undergraduate and postgraduate courses as a member of DST Green Chemistry monograph committee constituted by DST Green Chemistry Task Force.
<http://dst.gov.in/green-chem.pdf>

2. Book Chapters

- Sriparna Dutta, Prashant Kumar, Sneha Yadav, Ranjana Dixit and R. K. Sharma, Recyclable magnetically retrievable nanocatalysts for C-heteroatom bond formation reactions In *Green Bond Forming Reactions: Carbon-Carbon and Carbon-Heteroatom*, 2022, Doi.org/10.1515/psr-2021-0101. Physical Sciences Reviews, De Gruyter. Edited by: Rakesh Kumar Sharma and Bubun Bannerjee.
- Manavi Yadav, Sriparna Dutta, Anju Srivastava and R. K. Sharma, Chapter 10, Silica-coated magnetic nanocatalysts as efficient green catalysts for organic synthesis, In *Synthetic Applications*, 2022, pp-379. Edited by: Rajender S. Varma and Bubun Banerjee.
- Sriparna Dutta, Ranjana Dixit and R. K. Sharma, Remediation of heavy metals with nanomaterials, In *Separations of Water Pollutants with Nanotechnology*, 2022, Volume 15, 97-138. Elsevier. Edited by: Satinder Ahuja.
- Anju Srivastava, Sriparna Dutta, Satinder Ahuja, and R. K. Sharma, Green chemistry: key to reducing waste and improving water quality, In *Handbook of Water Purity and Quality*, 2021, 359-407. Academic Press. Edited by: Satinder Ahuja.
- Manavi Yadav, Radhika Gupta, Gunjan Arora, Priya Yadav, Anju Srivastava and R. K. Sharma, Current Status of Heavy Metal Contaminants and Their Removal/Recovery Techniques. In *Contaminants in Our Water: Identification and Remediation Methods*, 2020, 41-64. American Chemical Society. Edited by: Satinder Ahuja and B. G. Loganathan.
- Sriparna Dutta and R. K. Sharma, Chapter 15, Sustainable Magnetically Retrievable Nano-adsorbents for Selective Removal of Heavy Metal Ions From Different Charged Wastewaters, In *Separation Science and Technology*, 2019, 11, 371-416, Academic Press. Edited by: Satinder Ahuja.
- R. K. Sharma, Sneha Yadav and Sriparna Dutta, Gold Nanoparticles by Green Chemistry. In *21st Century Nanoscience—A Handbook*, 2019, 10-1, CRC Press. Edited by: Klaus D. Sattler.
- R. K. Sharma, Bhavya Arora, Sriparna Dutta and M. B. Gawande, Photo-oxidation Technologies for Advanced Water Treatment. In *Advanced Nano-Bio Technologies for Water and Soil Treatment*, 2020, 221-255, Springer, Cham. Edited by: Jan Filip, Tomáš Cajthaml, Petra Najmanová, Miroslav Černík and Radek Zbořil.

- Manavi Yadav, Radhika Gupta and R. K. Sharma, Green and sustainable pathways for wastewater purification, In *Advances in water purification techniques: meeting the needs of developed and developing countries*, 2019, 355-383, Elsevier Publications. Edited by: Satinder Ahuja.
- Shivani Sharma, Sriparna Dutta and R. K. Sharma, Chapter 2, Recyclability of Reagents, In *Hazardous Reagent Substitution*, 2017, 18-52, <http://dx.doi.org/10.1039/9781782623847-00018>. Edited by: Rakesh Kumar Sharma, Rakeshwar Bandichhor.
- Manavi Yadav, Sriparna Dutta and R. K. Sharma, Chapter 8, New Directions from Academia, In *Hazardous Reagent Substitution*, 2017, 130-167, <http://dx.doi.org/10.1039/9781782623847-00130>. Edited by: Rakesh Kumar Sharma, Rakeshwar Bandichhor.
- R. K. Sharma, Manavi Yadav and Manoj B. Gawande, Chapter 1, Silica-Coated Magnetic Nano-Particles: Application in Catalysis, 2016, pp 1-38, Ferrites and Ferrates: Chemistry and Applications in Sustainable Energy and Environmental Remediation, Edited By: Virender K. Sharma, Ruey-an Doong, Hyunook Kim, Rajender S. Varma, Dionysios D. Dionysiou.
- R. K. Sharma, Manavi Yadav and Radhika Gupta, Chapter 5, Water Quality and Sustainability in India: Challenges and Opportunities, 2016, pp 183-206, Chemistry and Water, Edited By: Satinder Ahuja.
- R.K. Sharma, Shikha Gulati and Aditi Puri, Chapter 3, Green Chemistry Solutions to Water Pollution, 2014, pp 57-75, Elsevier Publications, Water Reclamation and Sustainability, Edited By: Satinder Ahuja.
- R.K. Sharma and Shikha Gulati, Chapter 3, Water Quality Issues and Solutions in India, vol. 1, 2014, pp 21-39, Elsevier Publications, Comprehensive Water Quality and Purification, Edited By: Satinder Ahuja.
- R.K. Sharma, Garima Gaba, Anil Kumar and Aditi Puri, Chapter 6, Functionalized silica gel as green material for metal remediation, 2013, pp 105-134, RSC Publications, Green Materials for Sustainable Water Remediation and Treatment, Edited By: James H Clark.
- R.K. Sharma, Alok Adholeya, Manab Das and Aditi Puri, Chapter 2, Green materials for sustainable remediation of metals in water, 2013, pp 11-29, RSC Publications, Green Materials for Sustainable Water Remediation and Treatment, Edited By: James H Clark.
- R.K. Sharma, A. Adholeya, A. Puri and M. Das, Biomass Conversion: The Interface of Biotechnology, Chemistry and Materials Science, 2012, Chapter 14, Bioextraction: The Interface of Biotechnology and Green Chemistry, pp 435-456. Springer-Verlag, Heidelberg New York Dordrecht London. Edited by: Chinnappan Baskar, Shikha Baskar and Ranjit S. Dhillon.
- R.K. Sharma, 2005, "Photo-degradation of organic pollutants" in the book "Trends in Water Pollution Research" published by Nova Science Publishers, Inc. NY USA (2005).

3. Complete list of Research papers published in Refereed/Peer Reviewed Journals

.....(Year 2023).....

1. P. Rana, R. Dixit, S. Sharma, S. Dutta, S. Yadav, B. Arora, B. Kaushik, M. B. Gawande and **R. K. Sharma**, Preparation and characterization of the h-BN/Fe₃O₄/APTES-AMF/Cu^{II} nanocomposite as a new and efficient catalyst for the one-pot three-component synthesis of 2-amino-4-aryl(or heteroaryl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4H-chromene-3-carbonitriles, **Nanoscale**, 2023, 10.1039/D2NR05852A.

Impact Factor: 8.307

2. S. Dutta, P. Kumar, S. Yadav, R. D. Sharma, P. Shivaprasad, K. S. Vimalaswaran, A. Srivastava and **R. K. Sharma**, Accelerating innovations in C-H activation/functionalization through intricately designed magnetic nanomaterials: From genesis to applicability in liquid/region/photo catalysis, **Catalysis Communications**, 2023, 175, 106615.

Impact Factor: 3.51

.....(Year 2022).....

3. Priyanka, S. Yadav, S. Dutta, P. Rana, B. Arora, R. Sharma, A. Srivastava and **R. K. Sharma**, Unleashing the catalytic potency of nanoporous Copper oxide particles derived from Copper 5-nitroisophthalate MOF towards the multicomponent synthesis of 2,3-dihydroquinazolinones. **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, 2022, 130847.

Impact Factor: 5.518

4. B. Kaushik, P. Rana, D. Rawat, K. Solanki, P. Rana, S. Sachdeva, D. R. Naikwadi, A. V. Biradar & **R. K. Sharma**, Synergic effect of Type II ZnO/BiVO₄ magnetic heterostructures for visible light-driven degradation of bisphenol A and methyl violet. **Applied Organometallic Chemistry**, 2022, 37, e6936.

Impact Factor: 4.072

5. B. Arora, S. Sharma, S. Dutta, A. Sharma, S. Yadav, P. Rana, S. Mehta & **R. K. Sharma**, Design and Fabrication of a Retrievable Magnetic Halloysite Nanotubes Supported Nickel Catalyst for the Efficient Degradation of Methylviolet 6B and Acid Orange 7. **ChemistrySelect**, 2022, 7, e202202751.

Impact Factor: 2.307

6. P. Rana, B. Kaushik, K. Solanki, K. M. Saini & **R. K. Sharma**, Development of heterogeneous photocatalysts via the covalent grafting of metal complexes on various solid supports. **Chemical Communications**, 2022, **58**, 11354-11377.

Impact Factor: 6.065

7. P. Rana, R. Dixit, S. Sharma, S. Dutta, S. Yadav, B. Arora, Priyanka, B. Kaushik, M. B. Gawande & **R. K. Sharma**, Insights into the catalytic potential of rationally designed magnetic boron nitride nanosheets supported nickel catalyst for the efficient synthesis of 1,4-dihydropyridines. **Reaction Chemistry & Engineering**, 2022, 8, 244-253.

Impact Factor: 5.2

8. Priya Yadav, Radhika Gupta, Gunjan Arora, Anju Srivastava & **R. K. Sharma**, One-pot Synthesis of Propargylamines using Aldehydes-Amines-Acetylene via an Efficient Nickel-Based Silica-Coated Magnetic Nanocatalyst. **ChemistrySelect**, 2022, 7, e202200875.

Impact Factor: 2.307

9. P. Rana, R. Dixit, S. Sharma, S. Dutta, S. Yadav, B. Arora, B. Kaushik, P. Rana & **R. K. Sharma**, Magnetic Boron Nitride Nanosheets Decorated with Cobalt Nanoparticles as Catalyst for the Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones/thiones. **ACS Applied Nanomaterials**, 2022, 5, 4875–4886.

Impact Factor: 6.14

10. B. Kaushik, P. Rana, K. Solanki, D. Rawat, S. Yadav, P. Rana, D. R. Naikwadi, A. V. Biradar & **R.K. Sharma**, In-situ Synthesis of 3-D Hierarchical ZnFe₂O₄ modified Cu₂S snowflakes: Exploring their bifunctionality in Selective Photocatalytic Reduction of Nitroarenes and Methyl Orange Degradation. **Journal of Photochemistry and Photobiology A: Chemistry**, 2022, 114165.

Impact Factor: 5.141

11. B. Arora, S. Sharma, S. Dutta, S. Yadav, P. Rana, Priyanka & **R.K. Sharma**, Fabrication of a recyclable magnetic halloysite-based cobalt nanocatalyst for the efficient degradation of bisphenol A and malachite green. **Materials Advances**, 10.1039/D2MA00500J.

12. S. Yadav, R. Dixit, S. Sharma, S. Dutta, B. Arora, P. Rana, B. Kaushik, K. Solanki and **R. K. Sharma**, Unravelling the catalytic potential of a magnetic CoFe₂O₄/Cu-ABDC MOF composite in the sustainable synthesis of 2H-Indazole motifs. **New Journal of Chemistry**, 2022, 46, 10829-10843.

Impact Factor: 3.925

13. B. Kaushik, P. Rana, D. Rawat, K. Solanki, S. Yadav, P. Rana & **R. K. Sharma**, Magnetically separable type-II semiconductor based ZnO/MoO₃ photocatalyst: a proficient system for heteroarenes arylation and rhodamine B degradation under visible light. **New Journal of Chemistry**, 2022, 46, 10829-10843, 8478-8488.

Impact Factor: 3.925

14. B. Kaushik, S. Yadav, P. Rana, P. Rana, K. Solanki, D. Rawat & **R.K. Sharma**, Precisely Engineered Type II ZnO-CuS based Heterostructure: A Visible Light Driven Photocatalyst for Efficient Mineralization of Organic Dyes. **Applied Surface Science**, 2022, **590**, 153053.
Impact Factor: 7.392
15. P. Yadav, R. Gupta, G. Arora, A. Srivastava & **R.K. Sharma**, Synthesis of phenol esters by direct CH activation of aldehydes using highly efficient and reusable copper immobilized polyimide covalent organic framework (Cu@ PI-COF). **New Journal of Chemistry**, 2022, **46**, 4715-4723.
Impact Factor: 3.925
16. B. Arora, S. Sharma, S. Dutta, A. Sharma, S. Yadav, P. Rana, P. Rana, & **R.K. Sharma**, A sustainable gateway to access 1, 8-dioxo-octahydroxanthene scaffolds via surface engineered halloysite based magnetically responsive catalyst. **New Journal of Chemistry**, 2022, **46**, 5405-5418.
Impact Factor: 3.925
17. P. Rana, B. Kaushik, R. Gaur, S. Dutta, S. Yadav, P. Rana, K. Solanki, B. Arora, A. Biradar, M. B. Gawande, and **R. K. Sharma**. Earth-Abundant Cobalt based photocatalyst: Visible light induced direct (Het) Arene CH arylation and CO₂ capture. **Dalton Transactions**, 2022, **51**, 2452-2463.
Impact Factor: 4.569
18. P. Yadav, M. Yadav, R. Gaur, R. Gupta, G. Arora, A. Srivastava, A. Goswami, M. B. Gawande, and **R. K. Sharma**. Chemistry of magnetic covalent organic frameworks (MagCOFs): From synthesis to separation applications. **Materials Advances**, 2022, **3**, 1432-1458.
19. **R. K. Sharma**, B. Kaushik, S. Yadav, P. Rana, P. Rana, K. Solanki and D. Rawat, Ingeniously designed Silica nanostructures as an exceptional support: Opportunities, potential challenges and future prospects for viable degradation of pesticides, **Journal of Environmental Management**, 2022, **301**, 113821.
Impact Factor: 8.91

.....(Year 2021).....

20. **R. K. Sharma**, S. Yadav, S. Dutta, H. B. Kale, I. R. Warkad, R. Zbořil, R. S. Varma and M. B. Gawande, Silver nanomaterials: synthesis and (electro/photo) catalytic applications, **Chemical Society Reviews**, 2021, **50**, 11293-11380.

Impact Factor: 60.615

21. S. Yadav, R. Dixit, S. Sharma, S. Dutta, B. Arora, P. Rana, B. Kaushik, P. Rana, A. Adholeya, M. B. Gawande and **R. K. Sharma**, Unlocking the catalytic potency of a magnetic responsive $\text{CoFe}_2\text{O}_4/\text{Ni-BTC}$ MOF composite for the sustainable synthesis of tri and tetra-substituted imidazoles, **Materials Chemistry Frontiers**, 2021, **5**, 7343-7355.

Impact Factor: 8.683

22. P. Rana, R. Dixit, S. Sharma, S. Dutta, S. Yadav, A. Sharma, B. Kaushik, P. Rana, A. Adholeya, and **R. K. Sharma**. Enhanced Catalysis through Structurally Modified Hybrid 2-D Boron Nitride Nanosheets Comprising of Complexed 2-hydroxy-4-methoxybenzophenone Motif. **Scientific Reports**, 2021, 11:24429.

Impact Factor: 4.996

23. P. Rana, R. Gaur, B. Kaushik, P. Rana, S. Yadav, P. Yadav, P. Sharma, M. B. Gawande and **R. K. Sharma**, Surface engineered Iridium-based magnetic photocatalyst paving a path towards visible light driven C-H arylation and cyanation reaction, **Journal of Catalysis**, 2021, **401**, 297-308.

Impact Factor: 8.047

24. G. Arora, M. Yadav, R. Gaur, R. Gupta, P. Yadav, R. Dixit and **R. K. Sharma**, Fabrication, Functionalization and Advanced Applications of Magnetic Hollow Materials in Confined Catalysis and Environmental Remediation. **Nanoscale**, 2021, **13**, 10967-11003.

Impact Factor: 8.307

25. **R. K. Sharma**, K. Solanki, R. Dixit, S. Sharma and S. Dutta, Nanoengineered Iron Oxide Based Sorbents for Separation of Various Water Pollutants: Current Status, Opportunities and Future Outlook, **Environmental Science: Water Research and Technology**, 2021, **7**, 818-860.

Impact Factor: 5.819

26. S. Yadav, R. Dixit, S. Sharma, S. Dutta, K. Solanki and **R. K. Sharma**, Magnetic Metal Organic Framework Composites: Structurally Advanced Catalytic Materials for Organic Transformations, **Materials Advances**, 2021, **2**, 2153-2187.

27. A. Sharma, R. Dixit, S. Sharma, S. Dutta, S. Yadav, B. Arora and **R. K. Sharma**, Efficient and sustainable Co_3O_4 nanocages based nickel catalyst: A suitable platform for the synthesis of quinoxaline derivatives. **Molecular Catalysis**, 2021, **504**, 111454.

Impact Factor: 5.089

28. R. Gupta, G. Arora, P. Yadav, R. Dixit, A. Srivastava and **R. K. Sharma**, A magnetically retrievable copper ionic liquid nanocatalyst for cyclooxidative synthesis of 2-phenylquinazolin-4(3H)-ones, **Dalton Transactions**, 2021, **50**, 890-898.

Impact Factor: 4.569

29. G. Arora, R. Gupta, P. Yadav, R. Dixit, A. Srivastava and **R. K. Sharma**, Ultrasonically-mediated one-pot synthesis of substituted imidazoles via sulfamic acid functionalized hollow magnetically retrievable solid-acid catalyst, **Current Research in Green and Sustainable Chemistry**, 2021, **4**, 100050-100057.

30. G. Arora, R. Shrivastava, P. Kumar, R. Bandichhor, D. Krishnamurthy, **R. K. Sharma** and M. Rizwan, Recent advances made in the synthesis of small drug molecules for clinical applications: An insight. **Current Research in Green and Sustainable Chemistry**, 2021, **4**, 100097.

.....(Year 2020).....

31. R. Gupta, M. Yadav, R. Gaur, G. Arora, P. Yadav and **R. K. Sharma**, Magnetically Supported Ionic Liquids: A Sustainable Catalytic Route for Organic Transformations, **Materials Horizons**, 2020, **7**, 3097-3130.

Impact Factor: 15.717

32. Y. Monga, P. Kumar, **R. K. Sharma**, J. Filip, R. S. Varma, R. Zbořil, M. B. Gawande, Sustainable Synthesis of Nanoscale Zerovalent Iron Particles for Environmental Remediation, **ChemSusChem**, 2020, **13**, 3288-3305.

Impact Factor: 9.14

33. S. Yadav, S. Sharma, S. Dutta, A. Sharma, A. Adholeya and **R. K. Sharma**, Harnessing the Untapped Catalytic Potential of a CoFe₂O₄/Mn-BDC Hybrid MOF Composite for Obtaining a Multitude of 1,4-Disubstituted 1,2,3-Triazole Scaffolds, **Inorganic Chemistry**, 2020, **59**, 8334–8344.

Impact Factor: 5.436

34. **R.K. Sharma**, B. Arora, S. Sharma, S. Dutta, A. Sharma, S. Yadav and K. Solanki, In-situ hydroxyl radical generation using the synergism of Co-Ni bimetallic centres of developed nanocatalyst with potent efficiency of degrading toxic water pollutants, **Materials Chemistry Frontiers**, 2020, **4**, 605-620.

Impact Factor: 8.683

35. **R.K. Sharma**, P. Yadav, M. Yadav, R. Gupta, P. Rana, A. Srivastava and M. B. Gawande, Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. **Materials Horizons**, 2020, **7**, 411-454.

Impact Factor: 15.717

36. G. Arora, M. Yadav, R. Gaur, R. Gupta, P. Rana, P. Yadav and **R.K. Sharma**, A template free protocol for fabrication of a Ni(II)-loaded magnetically separable nanoreactor scaffold for confined synthesis of unsymmetrical diaryl sulfides in water, **RSC Advances**, 2020, **10**, 19390.

Impact Factor: 4.036

37. P. Yadav, M. Yadav, R. Gaur, R. Gupta, G. Arora, P. Rana, A. Srivastava and **R. K. Sharma**, Fabrication of Copper-based Silica-coated Magnetic Nanocatalyst for Efficient One-pot Synthesis of Chalcones via A3 Coupling of Aldehydes-Alkynes-Amines, **ChemCatChem**, 2020, **12**, 1–10.

Impact Factor: 5.497

.....(Year 2019).....

38. **R.K. Sharma**, A. Sharma, S. Sharma, S. Dutta, S. Yadav and B. Arora, Design and Exploration of Catalytic Activity of Two-Dimensional Surface-Engineered Graphene Oxide Nanosheets in the Transannulation of N-Heterocyclic Aldehydes or Ketones with Alkylamines, **ACS Omega**, 2019, **4**, 3146-3158.

Impact Factor: 4.132

39. R. Gupta, M. Yadav, R. Gaur, G. Arora, P. Rana, P. Yadav and **R.K. Sharma**, Silica-Coated Magnetic-Nanoparticle-Supported DABCO-Derived Acidic Ionic Liquid for the Efficient Synthesis of Bioactive 3, 3-Di (indolyl) indolin-2-ones, **ACS Omega**, 2019, **4**, 21529–21539.

Impact Factor: 4.132

40. P. Rana, R. Gaur, R. Gupta, G. Arora, J. Anireddy and **R.K. Sharma**, Cross-dehydrogenative C(sp³)-C(sp³) coupling via C-H activation using magnetically retrievable ruthenium-based photoredox nanocatalyst under aerobic conditions, **Chemical Communications**, 2019, **55**, 7402-7405.

Impact Factor: 6.065

41. **R.K. Sharma**, S. Yadav, R. Gupta and G. Arora, Synthesis of Magnetic Nanoparticles Using Potato Extract for Dye Degradation: A Green Chemistry Experiment, **Journal of Chemical Education**, 2019, 96(12), 3038–3044.

Impact Factor: 3.208

.....(Year 2018).....

42. **R.K. Sharma**, S. Yadav, S. Sharma, S. Dutta and A. Sharma, Expanding the Horizon of Multicomponent Oxidative Coupling Reaction via the Design of a Unique, 3D Copper Isophthalate MOF-Based Catalyst Decorated with Mixed Spinel CoFe₂O₄ Nanoparticles, **ACS Omega**, 2018, 3(11), 15100-15111.

Impact Factor: 4.132

43. **R.K. Sharma**, A. Sharma, S. Sharma and S. Dutta, Unprecedented Ester–Amide Exchange Reaction Using Highly Versatile Two-Dimensional Graphene Oxide Supported Base Metal Nanocatalyst, **Industrial & Engineering Chemistry Research**, 2018, 57(10), 3617-3627.

Impact Factor: 4.326

44. R. Gaur, M. Yadav, R. Gupta, G. Arora, P. Rana and **R.K. Sharma**, Aerobic Oxidation of Thiols to Disulfides by Silver-Based Magnetic Catalyst. **Chemistry Select**, 2018, 3(9), 2502-2508.

Impact Factor: 2.307

45. **R.K. Sharma**, R. Gaur, M. Yadav, A. Goswami, R. Zbořil and M. B. Gawande, An efficient copper-based magnetic nanocatalyst for the fixation of carbon dioxide at atmospheric pressure, **Scientific reports**, 2018, 8(1), 1901.

Impact Factor: 4.379

.....(Year 2017).....

46. G. Arora, M. Yadav, R. Gaur, R. Gupta and **R.K. Sharma**, A Novel and Template-Free Synthesis of Multifunctional Double-Shelled Fe₃O₄-C Nanoreactor as an Ideal Support for Confined Catalytic Reactions, **Chemistry Select**, 2017, 2, 10871-10879.

Impact Factor: 2.307

47. R. Gupta, M. Yadav, R. Gaur, G. Arora and **R.K. Sharma**, Straightforward one-pot synthesis of bioactive N-aryl oxazolidin-2-ones via highly efficient Fe₃O₄@SiO₂-supported acetate-based butylimidazolium ionic liquid nanocatalyst under metal- and solvent-free conditions, **Green Chemistry**, 2017, 19(16), 3801-3812.

Impact Factor: 11.034

48. S. Dutta, S. Sharma, A. Sharma and **R.K. Sharma**, Fabrication of Core–Shell-Structured Organic–Inorganic Hybrid Nanocatalyst for the Expedient Synthesis of Polysubstituted Oxazoles via Tandem Oxidative Cyclization Pathway, **ACS Omega**, 2, 2017, 2778–2791.

Impact Factor: 4.132

.....(Year 2016).....

49. **R.K. Sharma**, M. Yadav, R. Gaur, R. Gupta, A. Adholeya and M. B. Gawande, Synthesis of Iron Oxide Palladium Nanoparticles and Their Catalytic Applications for Direct Coupling of Acyl Chlorides with Alkynes, **ChemPlusChem**, 81, 2016, 1312-1319.

Impact factor: 3.21

50. **R.K. Sharma**, S. Dutta, S. Sharma, R. Zboril, R. S. Varma and M. B. Gawande, Fe₃O₄ (iron oxide)-supported nanocatalysts: synthesis, characterization and applications in coupling reactions, **Green Chemistry**, 18, 2016, 3184-3209.

Impact factor: 11.034

51. **R.K. Sharma**, M. Mishra, S. Sharma and S. Dutta, Zinc(II) complex immobilized on amine functionalized silica gel: a novel, highly efficient and recyclable catalyst for multicomponent click synthesis of 1,4-disubstituted 1,2,3-triazoles, **Journal of Coordination Chemistry**, 69, 2016, 1152–1165.

Impact factor: 1.869

52. **R.K. Sharma**, M. Yadav, Y. Monga, R. Gaur, A. Adholeya, R. Zboril, R. S. Varma and M. B. Gawande, Silica-Based Magnetic Manganese Nanocatalyst-Applications in the Oxidation of Organic Halides and Alcohols, **ACS Sustainable Chemical and Engineering**, 4 (3), 2016, 1123-1130.

Impact factor: 9.224

53. **R.K. Sharma**, S. Dutta and S. Sharma, Nickel(II) complex covalently anchored on core shell structured SiO₂@Fe₃O₄ nanoparticles: a robust and magnetically retrievable catalyst for direct one-pot reductive amination of ketones, **New Journal of Chemistry**, 40, 2016, 2089-2101.

Impact factor: 3.925

54. **R.K. Sharma**, S. Sharma, G. Gaba and S. Dutta, Coordinated copper(II) supported on silica nanospheres applied to the synthesis of α -ketoamides via oxidative amidation of methyl ketones, **Journal of Materials Science**, 51, 2016, 2121-2133.

Impact factor: 4.682

.....(Year 2015).....

55. **R.K. Sharma**, R. Gaur, M. Yadav, A. K. Rathi, J. Pechousek, M. Petr, R. Zboril and M. B. Gawande, Maghemite-Copper Nanocomposites: Applications for Ligand-Free Cross-Coupling (C–O, C–S, and C–N) Reactions, **ChemCatChem**, 7, 2015, 3495-3502.

Impact factor: 5.497

56. **R.K. Sharma**, M. Mishra and S. Sharma, A highly efficient and recyclable silica supported organic-inorganic hybrid copper catalyst: Preparation, characterization and catalytic application in oxidative homocoupling of terminal alkynes, **International Journal of Chemistry**, 4(1), 2015, 49-64.

Impact factor: 1.6

57. **R.K. Sharma**, S. Sharma, S. Dutta, R. Zboril and M.B. Gawande, Silica-nanosphere-based organic–inorganic hybrid nanomaterials: synthesis, functionalization and applications in catalysis, **Green Chemistry**, 17, 2015, 3207-3230.

Impact factor: 11.034

58. **R.K. Sharma**, H. Kumar and A. Kumar, A highly efficient and magnetically retrievable functionalized nano-adsorbent for ultrasonication assisted rapid and selective extraction of Pd²⁺ ions from water samples, **RSC Advances**, 5, 2015, 43371-43380.

Impact factor: 4.036

59. **R.K. Sharma**, M. Yadav, R. Gaur, Y. Monga and A. Adholeya, Magnetically retrievable silica-based nickel nanocatalyst for Suzuki–Miyaura cross-coupling reaction, **Catalysis Science and Technology**, 5, 2015, 2728-2740

Impact factor: 6.177

60. M.B. Gawande, Y. Monga, R. Zaboril and **R.K. Sharma**, Silica-decorated Magnetic Nanocomposites for Catalytic Applications, **Coordination Chemistry Reviews**, 288, 2015, 118-143.

Impact factor: 24.833

61. **R.K. Sharma**, S. Dutta and S. Sharma, Quinoline-2-carboimine copper complex immobilized on amine functionalized silica coated magnetite nanoparticles: a novel and magnetically retrievable catalyst for the synthesis of carbamates via C–H activation of formamides, **Dalton Transactions**, 44, 2015, 1303-1316.

Impact factor: 4.569

.....(Year 2014).....

62. **R.K. Sharma**, S. Sharma and G. Gaba, Silica nanospheres supported diazafluorene iron complex: an efficient and versatile nanocatalyst for the synthesis of propargylamines from terminal alkynes, dihalomethane and amines, **RSC Advances**, 4, 2014, 49198-49211.

Impact factor: 4.036

63. **R.K. Sharma**, A. Puri, Y. Monga and A. Adholeya, Acetoacetanilide-functionalized Fe₃O₄ nanoparticles for selective and cyclic removal of Pb²⁺ ions from different charged wastewaters, **Journal of Materials Chemistry A**, 2, 2014, 12888-12898

Impact factor: 14.511

64. **R.K. Sharma**, Y. Monga and A. Puri, Magnetically separable silica@Fe₃O₄ core–shell supported nano-structured copper(II) composites as a versatile catalyst for the reduction of nitroarenes in aqueous medium at room temperature, **Journal of Molecular Catalysis A: Chemical**, 393, 2014, 84-95

Impact factor: 5.089

65. **R.K. Sharma**, A. Puri, Y. Monga and A. Adholeya, Newly modified silica-based magnetically driven nanoadsorbent: A sustainable and versatile platform for efficient and selective recovery of cadmium from water and fly-ash ameliorated soil, **Separation and Purification Technology**, 127, 2014, 121-130.

Impact factor: 9.136

66. **R.K. Sharma**, A. Puri, A. Kumar, Y. Monga, G. Gaba and A. Adholeya, Diacetylmonoxime Functionalized Silica Gel: An Efficient and Recyclable Organic Inorganic Hybrid Material for Selective Removal of Copper from Fly Ash Ameliorated Soil Samples, **Separation Science and Technology**, 49, 2014, 709-720.

Impact factor: 2.799

67. **R.K. Sharma** and S. Sharma, Silica nanosphere-supported palladium(II) furfural complex as a highly efficient and recyclable catalyst for oxidative amination of aldehydes, **Dalton Transactions**, 43, 2014, 1292-1304.

Impact factor: 4.569

.....(Year 2013).....

68. **R.K. Sharma**, Y. Monga, A. Puri and G. Gaba, Magnetite (Fe₃O₄) Silica Based Organic-Inorganic Hybrid Copper(II) Nanocatalyst: A Platform For Aerobic N-alkylation of Amines, **Green Chemistry**, 15, 2013, 2800-2809

Impact factor: 11.034

69. **R.K. Sharma**, Y. Monga and A. Puri, Zirconium(IV)-modified silica@magnetic nanocomposites: Fabrication, characterization and application as efficient, selective and reusable nanocatalysts for Friedel–Crafts, Knoevenagel and Pechmann condensation reactions, **Catalysis Communications**, 2013, 35, 110-114.

Impact factor: 3.51

70. **R.K. Sharma**, A. Puri, A. Kumar and A. Adholeya, Chemically modified silica gel with 1-{4-[(2-hydroxy-benzylidene)amino]phenyl}ethanone: synthesis, characterization and application as an efficient and reusable solid phase extractant for selective removal of Zn(II) from mycorrhizal treated fly-ash samples, **Journal of Environmental Sciences**, 2013, 25 (6), 1252-1261.

Impact Factor: 6.796

71. **R.K. Sharma**, S. Sharma, S. Gulati and A. Pandey, Fabrication of Novel Nano-composite carbon paste sensor based on silica-nanospheres functionalized with isatin thiosemicarbazone for potentiometric monitoring of Cu²⁺ ions in real samples, **Analytical Methods**, 2013, 5, 1414-1426.

Impact Factor: 3.532

72. **R.K. Sharma** and Y. Monga, Silica encapsulated magnetic nanoparticles supported Zn(II) Nanocatalyst: a versatile integration of excellent reactivity and selectivity for the synthesis of

azoxyarenes, combined with facile catalyst recovery and recyclability, **Applied Catalysis A: General**, 2013, 454, 1-10.

Impact Factor: 5.723

73. **R.K. Sharma**, S. Gulati and A. Pandey, Polyfluorinated-Zinc(II)phthalocyanine complex immobilized on silica: A novel, highly selective and recyclable inorganic-organic hybrid catalyst for the synthesis of biologically important 1,5-Benzodiazepines, **Inorganica Chimica Acta**, 2013, 397, 21-31.

Impact Factor: 3.118

74. **R.K. Sharma**, M. Otsuka, G. Gaba and S. Mehta, Inhibitors of transcription factor nuclear factor-kappa beta (NF- κ B)-DNA binding, **RSC Advances**, 2013, 3, 1282-1296.

Impact factor: 4.036

.....(Year 2012).....

75. **R.K. Sharma**, S. Gulati and A. Pandey, Porous silica supported Co^{2+} -tetrachlorophthalocyanine ($\text{CoPcCl-APTES@SiO}_2$): A novel and recyclable organic-inorganic hybrid catalyst for eco-friendly oxidation of secondary alcohols, **Journal of Porous Materials**, 2012, 20, 937-949.

Impact Factor: 2.523

76. **R.K. Sharma**, C. Sharma and Perna. An efficient and one pot synthesis of polysubstituted imidazoles catalyzed by BiCl_3 , **Indian Journal of Chemistry**, 2012, 51B, 1489-1493.

Impact Factor: 0.592

77. **R.K. Sharma** and S. Gulati, Manganese phthalocyanine immobilized on silica gel: Efficient and recyclable catalyst for single-step oxidative esterification of aldehydes with alcohols, **Journal of Molecular Catalysis A: Chemical**, 2012, 363-364, 291-303.

Impact Factor: 5.089

78. **R.K. Sharma**, S. Gulati and S. Mehta, Preparation of Gold Nanoparticles Using Tea: A Green Chemistry Experiment, **Journal of Chemical Education**, 2012, 89, 1316-1318.

Impact Factor: 3.208

79. **R.K. Sharma**, A. Pandey and S. Gulati, Silica supported molybdenum complex: A novel reusable organic-inorganic hybrid catalyst for eco-friendly oxidation of sulfides and olefins, **Polyhedron**, 2012, 45, 86-93.

Impact Factor: 2.975

80. **R.K. Sharma**, A. Pandey, S. Gulati and A. Adholeya, Silica modified with 2,6-diacetylpyridine-monosalicyloylhydrazone: A novel and selective organic-inorganic sorbent for separation of molybdenum ions in a newly designed reactor, **Chemical Engineering Journal**, 2012, 210, 490-499.

Impact Factor: 16.744

81. **R.K. Sharma**, S. Gulati, A. Pandey and A. Adholeya, Novel, efficient and recyclable silica based organic-inorganic hybrid Nickel catalyst for degradation of dye pollutants in a newly designed chemical reactor, **Applied Catalysis B: Environmental**, 2012, 125, 247– 258.

Impact factor: 24.319

82. **R.K. Sharma**, A. Pandey, S. Gulati and A. Adholeya, An Optimized procedure for preconcentration, determination and on-line recovery of palladium using Highly Selective Diphenyldiketone-monothiosemicarbazone modified Silica gel, **Journal of Hazardous Materials**, 2012, 209-210, 285-292.

Impact factor: 14.224

83. **R.K. Sharma**, A. Pandey and S. Gulati, Silica-supported palladium complex: An efficient, highly selective and reusable organic–inorganic hybrid catalyst for the synthesis of E-stilbenes, **Applied Catalysis A: General**, 2012, 431-432, 33-41.

Impact factor: 5.723

84. **R.K. Sharma**, D. Rawat and G. Gaba, Inorganic–organic hybrid silica based tin(II) catalyst: Synthesis, characterization and application in one-pot three-component Mannich reaction, **Catalysis Communications**, 2012, 19, 31–36.

Impact factor: 3.51

85. **R.K. Sharma** and D. Rawat, Silica immobilized nickel complex: An efficient and reusable catalyst for microwave-assisted one-pot synthesis of dihydropyrimidinones, **Inorganic Chemistry Communications**, 2012, 17, 58-63.

Impact factor: 3.428

86. **R.K. Sharma**, S. Gulati and S. Sachdeva, One pot and Solvent-free Synthesis of 2,9,16,23-tetrachlorometal(II)phthalocyanines, **Green Chemistry Letters and Reviews**, 2012, 5, 83-87.

Impact factor 6.016

.....(Year 2011).....

87. **R.K. Sharma** and C. Sharma, Zirconium (IV)-modified silica gel: Preparation, characterization and catalytic activity in the synthesis of some biologically important molecules, **Catalysis Communications**, 2011, 12, 327–331

Impact factor: 3.51

88. **R.K. Sharma** and D. Rawat, An Efficient and Recyclable Silica Based Inorganic–Organic Hybrid Zinc Catalyst for Transesterification of β -Ketoesters, **Journal of Inorganic and Organometallic Polymers and Materials**, 2011, 21, 619-626.

Impact factor: 3.543

89. **R.K. Sharma**, C. Sharma and I.T. Sidhwani, Solventless and One-Pot Synthesis of Cu (II) Phthalocyanine Complex: A Green Chemistry Experiment, **Journal of Chemical Education**, 2011, 88(1), 85-87

Impact factor 3.208

90. **R.K. Sharma** and C. Sharma, Efficient Oxidative Methyl Esterification of Aldehydes by Silica-supported Manganese Complex: Clean and Recyclable Catalyst, **Journal of Macromolecular Science, Part A: Pure and Applied Chemistry**, 2011, 48, 155–163

Impact factor: 1.349

.....(Year 2010).....

91. **R.K. Sharma** and D. Rawat, Modified Silico-Tungstate: An Easy and Efficient Catalyst for the Acetylation of Amines Under Solvent-Free Condition, **Journal of Inorganic and Organometallic Polymers**, 2010, 20, 698–705

Impact factor: 3.543

92. **R.K. Sharma** and C. Sharma, Oxidative bromination reaction using Cu^{2+} -perfluorophthalocyanine-immobilized silica gel catalyst under mild reaction conditions, **Tetrahedron Letters**, 2010, 51, 4415-4418

Impact factor: 2.032

93. **R.K. Sharma** and C. Sharma, A highly efficient synthesis of oxindoles using a functionalized silica gel as support for Indium(III) acetylacetonate catalyst in an aqueous-acetonitrile medium, **Journal of Molecular Catalysis A: Chemical**, 2010, 332, 53-58

Impact factor: 5.089

.....(Year 2009).....

94. **R.K. Sharma** and P. Pant, Preconcentration and determination of trace metal ions from aqueous samples by newly developed Gallic Acid modified Amberlite XAD-16 Chelating Resin, **Journal of Hazardous Materials**, 2009, 163, 295-301

Impact factor: 14.224

95. **R.K. Sharma** and P. Pant, Solid Phase Extraction and determination of metal ions in aqueous samples using Quercetin modified Amberlite XAD-16 chelating Polymer as Metal Extractant, **International Journal of Environmental Analytical Chemistry**, 2009, 89(7), 503-514

Impact factor 2.826

96. **R.K. Sharma**, G. Ahuja and I.T. Sidhwani, A New One-Pot Solvent-free Synthesis of Nickel porphyrin Complex, **Green Chemistry Letters and Reviews**, 2009, 2(2), 101-105.

Impact factor 6.016

.....(Year 2008).....

97. **R.K. Sharma**, D. Rawat and P. Pant, Synthesis, Characterization and Catalytic Behaviour of Silica Supported Zinc Salicylaldehyde Complex, **Journal of Macromolecular Science, Part A: Pure and Applied Chemistry**, 2008, 45, 394-399

Impact factor 1.349

98. **R.K. Sharma**, C. Chelladurai, A.D. Tiwari, H.K. Rajor, S. Mehta and M. Otsuka, Studies on inhibition mechanism of transcription factor NF- κ B and DNA binding by chelator pyrogallol

red on the basis of its interaction with metal ions, **Bioorganic & Medicinal Chemistry**, 2008, 16, 9018-9022

Impact factor: 3.461

.....(Year 2007).....

99. P. Singh, S. Mittal and **R.K. Sharma**, Solid Phase Extraction and Estimation of Cadmium using Glycine immobilized cellulose Chelating Resin, **Indian Journal of Chemical Technology**, 2007, 14(2), 204-208

Impact factor 0.568

100. B.K. Singh, U.K. Jetley, **R.K. Sharma** and B.S. Garg, Synthesis, characterization and biological activity of complexes of 2-hydroxy-3,5-dimethylacetophenoneoxime (HDMAOX) with copper (II), cobalt (II), nickel (II) and palladium (II), **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 2007, 68(1), 63-73

Impact factor: 2.536

.....(Year 2006).....

101. **R.K. Sharma**, S. Chopra, V. Pande, M.J. Ramos, K. Meguro, J. Inoue and M. Otsuka, Biological Evaluation, Chelation and Molecular Modeling Studies of Novel Metal-Chelating Inhibitors of NF- κ B-DNA Binding: Structure Activity Relationship, **Journal of Medicinal Chemistry**, 2006, 49, 3595-3601

Impact factor: 8.039

102. B.K. Singh, **R.K. Sharma** and B.S. Garg, Cobalt(II) complexes of biologically active glutathione: Spectroscopic and molecular modeling studies, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 2006, 63, 96-102

Impact factor: 2.536

103. S. Sachdeva, D.N. Kumar, **R.K. Sharma** and B.S. Garg, Chemical speciation and computer modeling studies on interaction of an antioxidant 7,8-dihydroxy-4-methylcoumarin with bivalent metal ions, **Journal of Indian Chemical Society**, 2006, 83, 356-360

Impact factor 0.251

104. B.K. Singh, **R.K. Sharma** and B.S. Garg, Kinetics and Molecular Modeling of Biologically Active Glutathione Complexes with Lead(II) ions, **Journal of Thermal Analysis and Calorimetry**, 2006, 84(3), 593-600

Impact factor: 2.610

105. S. Sachdeva, D.N. Kumar, **R.K. Sharma** and B.S. Garg, Stability constant studies of trivalent lanthanides with an antioxidant 7,8-dihydroxy-4-methylcoumarin, **Proc.Nat.Acad.Sci.India**, 2006, 76(A) I, 23-28

Impact factor: 0.396

.....(Year 2005).....

106. **R.K. Sharma** and A. Goel, Development of a Cr(III) specific potentiometric sensor using aurintricarboxylic acid modified silica, **Analytica Chimica Acta**, 2005, 534, 137-142

Impact factor: 6.911

107. **R.K. Sharma**, S. Mittal, S. Azami and A. Adholeya, Surface modified silica gel for extraction of metal ions: an environment friendly method for waste treatment, **Surface Engineering**, 2005, 21(3), 232-237.

Impact factor: 2.451

108. S.D. Sharma, H. Rajor, S. Chopra and **R.K. Sharma**, Studies on structure activity relationship of some dihydroxy-4-methylcoumarin antioxidants based on their interaction with Fe(III) and ADP, **BioMetals**, 2005, 18, 143-154

Impact factor 3.378

109. B.S. Garg, **R.K. Sharma** and E. Kundra, Copper(II), nickel(II), cobalt(II) and zinc(II) complexes of 2-[2-(6-methylaminobenzoic acid: synthesis, spectral, thermal and molecular modeling studies, **Transition Metal Chemistry**, 2005, 30, 552-559

Impact factor 2.266

110. B.K. Singh, **R.K. Sharma** and B.S. Garg, Characterization, kinetics of thermal decomposition and molecular modelling studies on mercury(II) complexes of biologically active glutathione, **Main Group Chemistry**, 2005, 4(4), 247-261

Impact factor 0.641

111. **R.K. Sharma**, V. Pande, M. Ramos, H. Rajor, S. Chopra, K. Meguro, J. Inoue and M. Otsuka, Inhibitory activity of polyhydroxycarboxylate chelators against recombinant NF- κ B p50 protein-DNA binding, **Bioorganic Chemistry**, 2005, 33, 67-81

Impact factor: 5.307

.....(Year 2004).....

112. **R.K. Sharma**, V. Pande, J. Inoue, M. Otsuka and M.J. Ramos, Evans Blue: A Novel Inhibitor of Nuclear Factor-Kappa B DNA Binding-A Potential Anti-HIV Drug, **Bioorganic & Medicinal Chemistry Letters**, 2004, 14, 6123-6127

Impact factor: 2.94

113. S.M. Celin, M. Pandit, J.C. Kapoor and **R.K. Sharma**, Photoperoxidation of nitrobenzene in aqueous phase, **Indian Journal of Chemical Technology**, 2004, 11, 266-270

Impact factor 0.568

114. R. Goel, S.K. Kapoor, K. Misra and **R.K. Sharma**, Removal of Arsenic from Water by Different Adsorbents, **Indian Journal of Chemical Technology**, 2004, 11, 518-525

Impact factor: 0.568

.....(Year 2003).....

115. **R.K. Sharma**, S. Mittal and M. Koel, Analysis of trace amounts of metal ions using silica based chelating resins: A green analytical method, **Critical Reviews in Analytical Chemistry**, 2003, 33(3), 183-197

Impact factor: 5.686

116. V. Pande, **R.K. Sharma**, J. Inoue, M. Otsuka and M.J. Ramos, A molecular modeling study of inhibitors of nuclear factor kappa-B (p50)-DNA binding, **Journal of Computer-Aided Molecular Design**, 2003 17, 825-836

Impact factor: 3.028

117. H. Kurosaki, **R.K. Sharma**, M. Otsuka and M. Goto, Crystal Structure of 7,8-Dihydroxy-4-methylcoumarin, **Analytical Sciences**, 2003, 19, 647

Impact factor 1.967

118. S.M. Celin, M. Pandit, J.C. Kapoor and **R.K. Sharma**, Studies on Advanced Oxidation Process for Treatment of 2,4-Dinitro Toluene (DNT) in Aqueous Phase, **Chemosphere**, 2003, 53(1) 63-69

Impact factor: 8.943

119. Rathi, H.K. Rajor and **R.K. Sharma**, Photodegradation of direct yellow-12 using UV/H₂O₂/Fe⁺⁺ **Journal of Hazardous Materials**, 2003, B102, 231-241

Impact factor: 14.224

.....(Year 2002).....

120. B.S. Garg, **R.K. Sharma**, R. Shrestha, S. Mittal and M. Sarbhai, Metal-pyridylcarboxypropanamide (PCPAH) and metal-pyridylcarboxybenzamide (PCBAH) interactions: Stability constant, chemical speciation and molecular modelling studies, **Indian Journal of Chemistry**, 2002, 41A, 1625-1628

Impact factor: 0.494

121. B.S. Garg, **R.K. Sharma**, V. Kumar, M.J. Reddy and S. Mittal, Synthesis and studies on metal coordination with a novel carboxyamide ligand, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 2002, 58(12), 2789-2794

Impact factor: 2.536

.....(Year 2001).....

122. Kurosaki, **R.K. Sharma**, M. Otsuka and M. Goto, Synthesis, Characterization, and Spectroscopic Properties of Three Novel Pentadentate Copper (II) Complexes Related to the Metal-Chelating Inhibitors against the DNA Binding with HIV-EP1, **Journal of Chemical Society Dalton Transactions**, 2001, 441-447 First Published on Web as Advanced Article

Impact factor 4.029

123. **R.K. Sharma**, D. Goel, S. Mittal and S. Sindhvani, Chemical Speciation and Molecular Modelling Studies on Interaction of Cephalothin with Metal Ions, **Indian Journal of Chemistry**, 2001, 40A, 616-618

Impact factor 0.494

124. **R.K. Sharma**, S. Chopra and M. Kidwai, Formation constants and molecular modeling studies on interaction of metal ions with 6-fluoro-7-(5-nonyl 1,3,4-oxadiazol-2-ylsulphanyl)-4-quinolone-3-carboxylic acid [QDA], **Indian Journal of Chemistry**, 2001, 40A, 1240-1242
Impact factor 0.494
125. P. Sharma, B. Swaika, S. Mittal, **R.K. Sharma** and S.K. Sindhvani, Solution and molecular modeling studies on some bivalent metal complexes of higher analogues of biologically active 1,3-diaryl-4,5,6-pyrimidinetrioxone-2-thioxo-5-oxime, **Indian Journal of Chemistry**, 2001, 40A, 1076-1081
Impact factor 0.494
126. **R.K. Sharma**, Designing, Synthesis & Application of Chelating Polymer for Separation and Determination of Trace and Toxic Metal Ions A Green Analytical Method, **Pure and Applied Chemistry**, 2001, 73(1), 181-186
Impact factor 2.32
.....(Year 2000).....
127. B.S. Garg, **R.K. Sharma**, J.S. Bisht, N. Bhojak, S. Mittal and S. Sindhvani, Column Chromatographic Preconcentration of Cobalt and Zinc with 3-Hydroxy-4-imino-(N-2'-Pyridyl)-2-methylnaphthalen-1-one Adsorbed on Naphthalene and their Estimation in Vitamin and Milk Samples, **Indian Journal of Chemistry**, 2000, 39A, 564
Impact factor 0.494
128. **R.K. Sharma**, B.S. Garg, H. Kurosaki, M. Goto, M. Otsuka, T. Yamamoto and J. Inoue, Aurine Tricarboxylic Acid, a Potent Metal-Chelating Inhibitor of NFκB-DNA Binding, **Bioorganic and Medicinal Chemistry**, 2000, 8, 1819
Impact factor 2.461
.....(Year 1999).....
129. B.S. Garg, **R.K. Sharma**, J.S. Bist, N. Bhojak and S. Mittal, Separation and Preconcentration of Metal Ions and their Estimation in Vitamin, Steel and Milk Samples using o-vanillin-immobilized silica gel. **Talanta**, 1999, 48(1), 49-55
Impact factor 6.556
130. B.S. Garg, **R.K. Sharma**, N. Bhojak and S. Mittal, Review: Chelating Resins and their Application in the Analysis of Trace Metal Ions, **Microchemical Journal**, 1999, 61, 94-114
Impact factor 5.304

131. Rathi, M. Pandit and **R.K. Sharma**, Photo-oxidative Degradation of Direct Yellow 12 using Hydrogen Peroxide, **Indian Journal of Chemical Technology**, 1999, 6, 297-300
Impact factor 0.568
.....(Year 1998).....
132. **R.K. Sharma**, S. Joseph and M. Kidwai, Metal Ion-Nalidixic Acid Antibiotic Interaction: Formation Constants, Chemical Speciation and Molecular Modelling Studies, **Journal of Indian Chemical Society**, 1998, 75(2), 93-94
Impact factor 0.251
133. B.S. Garg, M.B. Aggarwal, **R.K. Sharma**, V. Kumar and R.K. Seth, Potentiometric, Spectral investigation and insecticidal activity of 3-Hydroxy-2-methyl-1,4-naphthoquinonemonoxime (HMNQM) complex of copper ion, **Journal of Indian Chemical Society**, 1998, 75(1), 4-6
Impact factor 0.251
134. B.S. Garg, N. Bhojak, J.S. Bist, B.K. Singh and **R.K. Sharma**, Solid Phase Extraction of transition metal ions using 2-pyridyliminosalicyl modified cellulose, **Indian Journal of Chemistry**, 1998, 37A, 935-938
Impact factor 0.494
135. H.G. Raj, **R.K. Sharma**, B.S. Garg, V.S. Parmar, S.C. Jain, S. Goel, Y.K. Tyagi, A. Singh, C.E. Olsen and J. Wengel, Mechanism of Biochemical Action of Substituted 4-Methylbenzopyran-2-ones Part III: A Novel Mechanism for the Inhibition of Biological Membrane Lipid Peroxidation by Dioxygenated 4-Methylcoumarins Mediated by the Formation of a Stable ADP-Fe-inhibitor Mixed Ligand Complex, **Bioorganic and Medicinal Chemistry**, 1998, 6(11), 2205-2212
Impact factor 3.461
.....(Year 1996).....
136. B.S. Garg, J.S. Bist, **R.K. Sharma** and N. Bhojak, Solid Phase Extraction of Metal Ions and their Estimation in Vitamin, Steel and Milk using 3-Hydroxy-2-methyl-1,4-naphthoquinone Immobilized Silica Gel, **Talanta**, 1996, 43, 2093
Impact factor: 6.556
137. **R.K. Sharma** and S. Joseph, Metal Ion-Tetracycline Interaction: Formation Constants, Chemical Speciation and Molecular Modelling Studies, **Indian Journal of Chemistry**, 1996, 35A, 639
Impact factor 0.494
.....(Year 1995).....
138. **R.K. Sharma**, Solid Phase Extraction of Trace Metal Ions using Low Melting Extractants (A Review), **Microchemical Journal**, 1995, 51(3), 289-311
Impact factor 5.304

139. **R.K. Sharma**, Column Chromatographic Preconcentration and Separation of Cobalt in a Vitamin, Alloy and an Ore using Chelating Resin containing Acenaphthenequinone Monoxime supported over Naphthalene, **Analyst**, 1995, 120(8), 2203
Impact factor 5.227
140. **R.K. Sharma** and S. Joseph, Interaction of Anti-AIDS Aurin tricarboxylic acid (ATA) with Trace Metal Ions in Biological Fluids: Solution, Solid State and Molecular Modelling Studies, **Journal of Inorganic Biochemistry**, 1995, 59(2-3), 249
Impact factor 4.336
.....(Year 1994).....
141. **R.K. Sharma**, Stabilities of Mixed Metal Complexes with Biologically Active Colchicine in Dioxan Water Mixture and their Relation with the Quantitative Softness Values: A New approach, **Monatshefte fur Chemie**, 1994, 125(3), 267
Impact factor 1.613
.....(Year 1993).....
142. **R.K. Sharma**, Spectrophotometric Determination of Ruthenium after Solid-Phase Extraction with 3-Hydroxy-2-methyl-1,4-naphthoquinone 4-oxime into Microcrystalline p-Dichlorobenzene, **Bulletin of the Chemical Society of Japan**, 1993, 66(4), 1084
Impact factor: 5.121
143. Sahadev, **R.K. Sharma** and S.K. Sindhvani, Chelation behaviour of biologically active O-hydroxynaphthaldehyde derivatives with bivalent metal ions in different solvents: A potentiometric study, **Proc.Indian Acad.Sci.(Chem.Sci.)**, 1993, 105(2), 103
Impact factor 0.339
144. Sahadev, **R.K. Sharma** and S.K. Sindhvani, Potentiometric Studies on Complexation Equilibria between some Transition Metal Ions and 2-Hydroxy-1-Naphthaldehyde Thiosemicarbazone(HNATS) in Dioxan-Water Medium, **Journal of the Indian Chemical Society**, 1993, 70, 68
Impact factor 0.251
.....(Year 1992).....
145. Sahadev, **R.K. Sharma** and S.K. Sindhvani, Stabilities of Some Bivalent Transition Metal Ions with 2-Hydroxy naphthaldehyde Semicarbazones and Thiosemicarbazones in Dioxane-Water Mixtures: A Potentiometric Study, **Monatshefte fur Chemie**, 1992, 123, 1099
Impact factor 1.613
146. Sahadev, **R.K. Sharma** and S.K. Sindhvani, Potentiometric Studies on the Complexation Equilibria Between Some Trivalent Lanthanide Metal Ions and Biologically Active 2-Hydroxy-1-Naphthaldehyde Thiosemicarbazone (HNATS), **Monatshefte fur Chemie**, 1992, 123, 883
Impact factor 1.613

147. Sahadev, **R.K. Sharma** and S.K. Sindhvani, Physico-chemical studies on the chelation behaviour of biologically active 2-Hydroxy-1-naphthaldehyde semicarbazone (HNAS) with some lanthanons, **Monatshefte fur Chemie**, 1992, 123, 25

Impact factor 1.613

148. Sahadev, **R.K. Sharma** and S.K. Sindhvani, Thermal Studies on the chelation behaviour of biologically active 2-Hydroxy-1-naphthaldehyde thiosemicarbazone (HNATS) towards bivalent metal ions: A potentiometric Study, **Thermochemica Acta**, 1992, 202, 291

Impact factor 3.378

.....(Year 1991).....

149. **R.K. Sharma** and S.K. Sindhvani, Studies on bis(cyclopentadienyl)titanium(IV) chelates of biologically active O- hydroxynaphthoquinone and its derivatives, **Proc.Indian Acad.Sci. (Chem.Sci.)**, 1991, 103(5),607

Impact factor 0.339

150. B.S. Garg, R. Dixit and **R.K. Sharma**, Investigation on mixed ligand complexes of lanthanons(III) with w-Benzoyl-2-Hydroxy-4-Methoxy-3-Methyl Acetophenone (BHMMA) as primary ligand and Acetylacetone (AcAc) as secondary ligand, **Bulletin de la Société chimique de France**, 1991, 128, 473

151. **R.K. Sharma** and B.S. Garg, Acenaphthenequinone monoxime as sensitive reagent for Liquid-Solid phase extractive photometric determination of palladium and cobalt, **Annali Di Chimica**, 1991, 81, 275

152. B.S. Garg, R. Dixit and **R.K. Sharma**, Thermal and Magnetic Studies of Mixed ligand complexes of Chromium(III) containing Dithiocarbamate and Acetylacetone/ Oxine/ Glycine Moieties, **Journal of Thermal Analysis**, 1991, 37(11-12), 2541

Impact factor: 2.610

.....(Year 1989).....

153. **R.K. Sharma** and S.K. Sindhvani, Thermodynamic Stabilities Of Lanthanide Complexes with 3-hydroxy-2-methyl-1,4-naphthoquinone (HMNQ) Presented in 1985-World Conference on Thermal Analysis, May 6-7, 1985, AUSTRIA **Thermochemica Acta** (U.S.A.), 1989, 155, 377

Impact factor 3.378

154. **R.K. Sharma** and S.K. Sindhvani, **Thermochemica Acta**, 1989, 156, 267, Studies on the chelation behaviour of bivalent metal complexes of biologically active 2-Hydroxy-1,4-Naphthoquinone Monoxime (HNQM) In dioxan-water mixtures.1989-Pittsburgh Conference

& Exposition on Analytical Chemistry, March 6-10, Atlanta, Georgia World Congress Centre, Georgia, U.S.A.

Impact factor 3.378

155. B.S. Garg and **R.K. Sharma**, Liquid-Solid phase extractions of complexes of acenaphthenequinone monoxime (AQM) with Pd(II) and Co(II) and their spectrophotometric determination, **Vijnana Parishad Anusandhan Patrika**, 1989, 32(2), 69

.....(Year 1988).....

156. **R.K. Sharma** and S.K. Sindhvani, Solid-Liquid separation after Liquid-Liquid extraction: Spectrophotometric determination of cobalt by extraction of its 3-hydroxy-2-methyl-1,4-naphthoquinone 4-oxime complex into molten naphthalene, **Talanta**, 1988, 35,661

Impact factor 6.556

157. **R.K. Sharma** and S.K. Sindhvani, Thermal studies on the chelation behaviour of bivalent metal complexes of biologically active 2-Hydroxy-1-Naphthaldehyde Monosemicarbazone (HNAS), **Thermochimica Acta**, 1988, 126, 1

Impact factor 2.236

158. **R.K. Sharma** and S.K. Sindhvani, Potentiometric studies on the chelation behaviour of bivalent metal complexes of biologically active 2-Hydroxy-1-Naphthaldehyde monosemicarbazone (HNAS) in dioxan-water mixtures, **Indian Journal of Chemistry**, 1988, 27A, 643

Impact factor 0.494

159. **R.K. Sharma** and S.K. Sindhvani, Stabilities Of Bivalent Metal Complexes With Biologically Active 2-Hydroxy-1,4-Naphthoquinone Monosemicarbazone (HNQS) In Dioxan-Water Mixtures, **Fresenius Journal of Analytical Chemistry**, 1988, 332, 819

.....(Year 1987).....

160. **R.K. Sharma** and S.K. Sindhvani, Spectrophotometric determination of Rhodium after extraction with 3-Hydroxy-2-methyl-1,4-Naphthoquinone monoxime into molten naphthalene, **Inorganica Chimica Acta** (Bio-Inorganic Section), 1987, 135, 211

Impact factor 2.002

161. **R.K. Sharma** and S.K. Sindhvani, Selective spectrophotometric determination of cobalt (II) in vitamin, alloy and ore using phenanthraquinone monosemicarbazone (PTS) as an agent, **Analyst**, 1987, 112, 1771

Impact factor 5.227

162. **R.K. Sharma** and S.K. Sindhvani, Spectrophotometric Determination Of Palladium After Extraction With 3-Hydroxy-2-Methyl-1,4-Naphthoquinone 4-Oxime Into Molten Naphthalene, **Analyst**, 1987, 112(2), 175

Impact factor 5.227

163. **R.K. Sharma** and S.K. Sindhvani, Potentiometric determination of stability constants and thermodynamic parameters of binary complexes of 2-Hydroxy 1,4-Naphthoquinone Monosemicarbazone <HNQS> with some lanthanons, **Indian Journal of Chemistry**, 1987, 26A, 87

Impact factor 0.494

.....(Year 1986).....

164. **R.K. Sharma** and S.K. Sindhvani, Studies on the chelation behaviour of bivalent metal complexes of phthiocol, **Bulletin de la Société chimique de France**, 1986, 5, 700

165. S.K. Singh, **R.K. Sharma** and S.K. Sindhvani, Spectrophotometric determination of micro amounts of ruthenium and platinum with acenaphthenequinone monothiosemicarbazone. **Bulletin of the Chemical Society of Japan**, 1986, 59, 1223

Impact factor 5.121

166. **R.K. Sharma** and S.K. Sindhvani, Potentiometric studies on chelation behaviour of lanthanons with 3-Hydroxy-2-Methyl-1,4-Naphthoquinone, **Monatsch Fur Chemie**, 1986, 117, 459

Impact factor 1.282

167. **R.K. Sharma** and S.K. Sindhvani, Thermodynamic studies on the chelation behaviour of bivalent metal complexes of 2-Hydroxy-1,4-Naphthoquinone monosemicarbazone (HNQS), **Thermochimica Acta**, 1986, 98, 199

Impact factor 3.378

168. **R.K. Sharma** and S.K. Sindhvani, Potentiometric determination of stability constants and thermodynamic parameters of lanthanide complexes of Acenaphthenequinone monothiosemicarbazone (AQTS), **Indian Journal of Chemistry**, 1986, 25A, 400

Impact factor 0.494

.....(Year 1985).....

169. **R.K. Sharma** and S.K. Sindhvani, Thermodynamic stabilities of lanthanide complexes with 3-hydroxy-2-methyl-1,4-naphthoquinone monoxime (HMNQM), **Thermochimica Acta**, 1985, 86, 149

Impact factor 3.378

.....(Year 1984).....

170. S.K. Singh, **R.K. Sharma** and S.K. Sindhvani, Physico-chemical studies on the chelation behaviour of Acenaphthenequinone monothiosemicarbazone (AQTS) with some bivalent metal ions, **Transition Metal Chemistry**, 1984, 9, 437-486.

Impact factor 2.266

Conference Organization/ Presentations

Working for the popularization of Green Chemistry in India. Following are the workshops organized and lectures delivered for the incorporation of Green Chemistry Principles in the laboratories of Universities and industries:

Workshops/ Conferences organized

1. First National Symposium on Green Chemistry held on 11-13 January 1999 at Department of Chemistry, University of Delhi.
2. IUPAC International Symposium on Green Chemistry on 10-13 January 2001 at Department of Chemistry, University of Delhi.
3. INDO-US Workshop on Green Chemistry in November 2003 under INDO-US S & T Forum at Department of Chemistry, University of Delhi.
4. ACS sponsored Second INDO-US Workshop on Green Chemistry in January 2006
5. DST sponsored Green Chemistry Education Workshop in March 2007
6. Third Indo-US S & T Forum Workshop on Green Chemistry in January 2008
7. DST, University of Delhi and RSC (London) sponsored Workshop on Green Chemistry in Real World Practice in May 2009
8. Industrial Green Chemistry International Workshop at Mumbai in December 2009
9. RSC London Sponsored Training Workshop on Green Chemistry Education : Necessity of a Sustainable Future in November 2010
10. ACS-Gii Sponsored International Workshop on Sustainability and Water Quality in January 2011
11. UCOST (Govt. of Uttarakhand) Sponsored Workshop on Green Chemistry Education : Necessity of a Sustainable Future at HNB Garhwal University Srinagar Uttarakhand in March 2011

12. Royal Society of Chemistry London sponsored [meeting of all the Indian local Sections](#) (June 25, 2011) at University of Delhi.
13. RSC London and Vigyan Prasar (Govt of India) Sponsored [Training Workshop on Green Chemistry: Chemistry for Tomorrow's World](#) in December 26, 2011 at University of Delhi
14. [International Conference on Green Chemistry](#) (7-9 December 2011) jointly organized with Central University of Rajasthan at Jaipur
15. [International Workshop on Chemistry for a Sustainable Future](#) (10-12 December 2012) organized jointly with MNIT Jaipur and Jaipur University at Chokhi Dhani Resort Jaipur
16. [International Workshop on Introduction to Gaussian: Theory and Practice](#) organized by Green Chemistry Network Centre (17-21 December 2012) at Delhi.
17. [International Workshop on Green Initiatives in Energy, Environment & Health](#) (2-3 December, 2013) jointly organized with GCCE, TERI & GBU at Hotel Maidens, Delhi.
18. ACS-Gii sponsored [Second International Workshop on Sustainability and Water Quality \(IWSWQ\) Remediation of Pesticides and Metals Contamination](#) (15-18 January 2014) jointly organized with TERI at Hotel Maidens, Delhi.
19. The Energy and Resources Institute (TERI) and Green Chemistry Network Centre (GCNC) jointly organized [the 5th Asia-Oceania Conference on Green & Sustainable Chemistry \(5th AOC-GSC\)](#) on January 15-17, 2015 at New Delhi, India
20. [RSC ChemCareers](#) jointly organized with Hindu College, University of Delhi and RSC North India Section at Hindu College, University of Delhi on 8th August 2015. Professor R K Sharma chaired the inaugural session and delivered a talk.
21. [Second National workshop on "Innovative Lab Practices Through Green Chemistry"](#) was jointly organized by GCNC Kanpur CSJM University of Kanpur and Royal Society of Chemistry North India Section on 9th September 2015.
22. [International Workshop on "Chemistry for Tomorrow's World"](#) sponsored by Royal Society of Chemistry London (North India Section) was jointly organized by Green Chemistry Network Centre, University of Delhi, Manav Rachna University, Faridabad, Shiv Nadar University, Greater Noida on 2-3rd December 2015.
23. [National Workshop on "Green Chemistry and Water Treatment"](#) sponsored by Royal Society of Chemistry London (North India Section) jointly organized by Hindu College, University of Delhi & Green Chemistry Network Centre, University of Delhi on 17th October, 2016.

24. [ChemCareers Delhi 2016](#) organized by RSC London North India Section and Green Chemistry Network centre, University of Delhi on 24th September **2016**.
25. [“National conference and workshop on Green Chemistry: Teaching and Technology”](#) organized by Faculty of Science, Mohanlal Sukhadia University in association with Royal Society of Chemistry London North India Section on 20th October, **2016**.
26. [“Yusuf Hamied Inspirational Chemistry Programme”](#) organized by Gargi College and sponsored by Royal Society of Chemistry on 24th-25th October, **2016**.
27. [“Indo-UK Scoping Meeting on Water Quality Research in India and UK”](#) jointly organised by Department of Science and Technology (GOI), the UK Natural Environment Research Council (NERC) and Engineering and Physical Sciences Research Council (EPSRC) with support from RCUK India on 17th-18th November, **2016**.
28. [One day workshop on “Recent Advances in Chemistry and Biology”](#) organized by Royal Society of Chemistry North India Section, Department of Chemistry, Shiv Nadar University & Green Chemistry Network Centre, University of Delhi 15th December, **2016**.
29. [“National conference on Environmental Sustainability in Wastewater Remediation: Current Status and Future Prospects”](#) organized by Sri Venkateswara College and sponsored by Royal Society of Chemistry London North India Section on 20th January, **2017**.
30. [“Indo-UK Scoping Workshop On Development of Rural Biorefineries in India: From Waste to Wealth”](#) organized by Green Chemistry Centre of Excellence, University of York, Green Chemistry Network Centre, University of Delhi and The Energy and Resources Institute (TERI) and sponsored by BBSRC Grand Challenges Research Fund on 20th February, **2017**.
31. [International Conference on "Advancing Green Chemistry: Building a Sustainable Tomorrow"](#) organized by Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi on 3-4 October **2017** at University Conference Centre, University of Delhi.
32. [International Conference on Advances in Chemical Sciences and Allied Fields of Science, Health, Education & Environment](#) organized by Career College Bhopal in association with Royal Society of Chemistry, London, North India Section held on 8th-10th March, **2018** at Career College Bhopal.
33. [National Conference on Chemistry for Human Health and Environment \(CHHE-2018\)](#) organized by Royal Society of Chemistry, London North India Section, Green Chemistry Network Centre, University of Delhi and National Environmental Science Academy (NESA), New Delhi held on 15-16th December, **2018** at Conference Center, University of Delhi.
34. [National Conference on “Green Chemistry for Clean Environment \(NCGCCE-2019\)](#) organized by Department of Chemistry J.R. N. Rajasthan Vidyapeeth Udaipur in association

with Royal Society of Chemistry, London, North India Section and Green Chemistry Network Centre, University of Delhi on 27th July, **2019**.

35. National Conference on “Recent Trends in Chemical Sciences (RTCS-2019) and RSC Workshop on “Periodic Table: a boon for mankind” organized by Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi held between 30th August-1st September, **2019** at Hotel Maidens, Civil Lines.
36. Indo-UK workshop "Green Chemistry for Societal Needs: Healthcare, Pollution and Circular Economies" organized by Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi in association with Green Chemistry Centre for Excellence, UK between 16th-18th December, **2019** at Hotel Maidens, Civil Lines sponsored by British Council (Newton Bhabha Researcher funds).
37. ACS Workshop on Greening our Education System: Initiatives for Propagating and Preaching Beyond Benign Concepts in Classrooms and Laboratories organized by ACS International Student Chapter, University of Delhi, Green Chemistry Network Centre, University of Delhi and Hindu College on December 19, **2019** at Conference Centre, University of Delhi.
38. ChemCareers India-2020 online event organized by RSC London North India Section, Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi on 25th September **2020**.
39. National Seminar on “Women Empowerment through Science & Technology: Power to Transform the World” organized by RSC London North India Section, Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi on 25th September **2021**.
40. Chemistry Festival for Students & Teachers: Green Chemistry, Education, Research & Practice organized by RSC London North India Section, Green Chemistry Network centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi on 1st October **2021**.
41. RSC Symposium on Frontiers in Green Chemistry & Sustainable Development: Special Emphasis on Food, Water & Energy organized by RSC London North India Section, Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi on 25th November **2021**.
42. ACS Symposium Series on Green Chemistry & Sustainable Development organized by ACS International Student Chapter, University of Delhi, Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi on 24th-25th November **2021**.

43. [Going Global workshop on “Green Chemistry Education Today for a Sustainable Tomorrow”](#) organized by Green Chemistry Network Centre, University of Delhi and Hindu College, Department of Chemistry, University of Delhi, University of Ladakh in association with Green Chemistry Centre for Excellence, UK between 27th-29th May, **2022** at Hotel Maidens, Civil Lines sponsored by British Council under Going Global Partnership.
44. [Workshop on “Green Chemistry Education Today for a Sustainable Tomorrow & Technology: Special emphasis on Catalyst, Food, Water and Drug research”](#) organized by Green Chemistry Network Centre, University of Delhi, RSC London North India Section, and University of Ladakh, Ladakh on 22nd August, **2022** at University of Ladakh, Ladakh.
45. [Workshop on “Green Chemistry and Wastewater Treatment”](#) organized by Green Chemistry Network Centre, University of Delhi and P.G. Department of Chemistry, DAV College, Amritsar on 24th September, **2022** at DAV College, Amritsar.
46. [International Workshop and Symposium on “Green Chemistry & Technology: Special emphasis on Catalyst, Food, Water and Drug research”](#) organized by Green Chemistry Network Centre, University of Delhi, RSC London North India Section, and P.G. Department of Chemistry, Govt. Dungar College, Bikaner between 22nd -24th December, **2022** at Govt. Dungar College, Bikaner.

Delivered lectures & Participated:

1. Delivered lecture in [DST Green Chemistry Task Force Workshop](#) at IIT Guwahati (25-26 February **2006**)
2. [Train the trainer workshop on Green Chemistry](#) conducted by American Chemical Society’s Green Chemistry Institute held in June 30, **2006** at Washington DC USA.
3. Delivered lecture in [Green Chemistry Symposium](#) organized by Schools from Delhi and Gurgaon at DAV School Gurgaon (November **2006**).
4. A green chemistry approach for the removal of heavy metal ions from industrial waste land Presented in [10th Annual Green Chemistry & Engineering Conference](#) in Washington DC on 26-30th June **2006**
5. Delivered lecture in [DST Green Chemistry Task Force workshop](#) at NEERI, Nagpur on February 13-14, **2007**
 - a. .
6. Delivered lecture in [DST Green Chemistry Task Force Sponsored Workshop](#) at Cotton College Guwahati on April 1-4, **2007**

7. Application of Chelating Resins as Metal Scavengers: A Green Chemistry Approach Presented in 11th Annual Green Chemistry & Engineering Conference in Washington DC on 26-29th June 2007
8. Preparation of Blue and Green luminescent tris (8-hydroxyquinolato) Al (III) complexes- an undergraduate experiment. Presented in 11th Annual Green Chemistry & Engineering Conference in Washington DC on 26-29th June 2007
9. Train the trainer workshop on Green Chemistry conducted by American Chemical Society's Green Chemistry Institute held in June 29, 2007 at Washington DC USA.
10. Delivered lecture in DST Green Chemistry Task Force workshop at NIPER (Mohali), on September 3-4, 2007
11. Delivered lecture in National Conference on Greener Aspect of Electrochemistry held at Jiwaji University Gwalior on December 7-9, 2007
12. Delivered lecture in National Symposium on Emerging Trends in Advanced Chemistry held at Jaipur University on March 8-10, 2008
13. Delivered Keynote address in UGC Sponsored National Seminar on Green Chemistry Education for a Sustainable Future of Humanity held at ADP College Nagaon on March 8-10, 2008.
14. Delivered lecture in National Conference on Recent Advances in Chemical Sciences held at Bikaner University on October 3-5, 2008
15. Invited to deliver a presentation on "Green Chemistry Networking in India" in 12th Annual Green Chemistry & Engineering Conference in Washington DC on 24-26th June 2008
16. Invited to deliver a presentation on "Green Chemistry Education: Facilitating transition to Green Technologies and Processes in India" in 13th Annual Green Chemistry & Engineering Conference in University of Maryland MD USA on 22-26th June 2009
17. Delivered lecture in National Symposium on Green Chemistry: Applications in Science & Engineering at Thapar University Patiala (5-6 February 2009)
18. Delivered lecture in DST Green Chemistry Task Force sponsored Workshop on Green Chemistry at JNTU Hyderabad (14-15 February 2009)
19. Delivered lecture in National Symposium on Emerging Trends in Chemical Analysis & Synthesis at Sant Longowal Institute of Engineering & Technology, Sangrur (12-13 March 2009)

20. Delivered opening lecture in Green Chemistry Education Train the Trainer Workshop at 13th ACS Green Chemistry & Engineering Conference held on 22-26 June 2009 at University of Maryland USA
21. Delivered lectures in Workshops and conferences organized by Catalysis Society MS University Baroda and Reliance Research Centre Vadodara (September, 2009).
22. Delivered Keynote address in All India Seminar on Engineering Systems and Alternatives for Reduction of Greenhouse Gases organized by Institution of Engineers Guwahati (October, 2009)
23. Delivered lectures in Workshop on Nano-materials and Technology in Chemistry & Green Chemistry organized by Sikkim MIT (October, 2009).
24. Delivered lecture in NOESIS 2009, The Annual Science Association Festival of Sri Venkateswara College, University of Delhi (November, 2009)
25. Delivered lecture in DST Green Chemistry Task Force Sponsored Green Chemistry Workshop at Jaipur (December 2009).
26. Delivered lecture in National Workshop on Green Chemistry organized by ANDNNM College CSJM University Kanpur (December 2009)
27. Delivered lecture in International Conference on Green Technologies for Greener Environment organized by CCS University Meerut (January 2010)
28. Delivered lecture in National Conference on Green and Sustainable Chemistry organized by BITS Pilani (February 2010).
29. Delivered lecture in All India Seminar on New Strategies for Reducing Carbon Foot Prints And Its Impact on Global Warming organized by Rajasthan College of Engineering for Women Jaipur Rajasthan (August 2010)
30. Delivered lecture in 'International Conference on Environmental Challenges - A Global Concern' organized by Kanya Maha Vidyalaya, Jalandhar (Punjab) (October 2010)
31. Delivered lecture on Green Chemistry in Education and Research in '4th INDO-ITALIAN Seminar on Green Chemistry and Natural Products' organized by Department of Chemistry, University of Delhi and Embassy of Italy, New Delhi (November 2010)
32. Delivered two lectures in Refresher Course organized by UGC-Academic Staff College, Kumaun University, Nainital (December 2010)

33. Delivered Lecture on Green Chemistry Education: Necessity of a Sustainable Future in **UGC sponsored Orientation Programme (OR64)** for College and University teachers at CPDHE University of Delhi (December **2010**)
34. Delivered Keynote Address in **National Conference on Role of Green Chemistry for Risk Free Environment** organized by Department of Chemistry, Poornima Group of Institutions Jaipur, Rajasthan (December **2010**)
35. Delivered Keynote Address in **National Seminar on New Trends in Green Chemistry** organized by D.A-V. College, KANPUR (December **2010**)
36. Delivered lecture in the inaugural session of **National Conference On Green Chemistry: “An approach to meet the challenges of sustainability”** organized by Department of Chemistry, MMH College, Ghaziabad (January **2011**)
37. Delivered Lecture on Green Chemistry in Education and Research in **National Workshop on Renewable Energy & Environment** organized by Ramjas College, University of Delhi (January **2011**)
38. Delivered lecture on **Green Chemistry in Education & Research** at Miranda House College Delhi University (February **2011**)
39. Delivered lecture in the **inaugural session of the National Science Day 2011** organized by Vigyan Prasar (VP) DST in collaboration with National Institute for Open Schooling (NIOS) under the theme “Science & Technology - Influencing Lives of Youth” (February **2011**)
40. Delivered lecture on **Green Chemistry in Education and Research** at Sri Venkateswara College, Delhi University (March **2011**)
41. Delivered two lectures in **DST Green Chemistry Task Force Sponsored Workshop** at IIT Guwahati (March **2011**)
42. Delivered two lectures on Green Chemistry education & research and demonstrated Green Chemistry Experiments at **UCOST sponsored Green Chemistry Workshop** at HNB central University Garhwal (22-23 March **2011**)
43. Delivered Keynote Address in **National Conference on Environmental Conservation, Sustainable Resource Management and Strategies for Regional Development** with reference to Uttarakhand organized by Department of Chemistry, DBS Postgraduate College, Dehradun (May **2011**).

44. Delivered Lecture as Chief Guest on “Green Chemistry and Sustainable Development” in National Seminar on “Emerging Trends in Green Chemistry” and 11th National Convention of Chemistry Teachers (NCCT-2011) organized by Association of Chemistry Teachers (TIFR Mumbai) (October 15-17, 2011)
45. Delivered lecture in national symposium on “Chemistry Innovations for Human Well Being” organized by Department of Chemistry, Himachal Pradesh University, Shimla for celebrating International Year of Chemistry-2011 on 21st and 22nd October, 2011
46. Delivered lecture in International Conference on Chemistry of Phytopotentials: Health, Energy and Environmental perspectives organized by Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Agra on 4th-6th November, 2011
47. Delivered lecture on Green Chemistry in the Celebrations of International Year of Chemistry-2011 organized by Govt. Kamla Raja Girls Autonomous Postgraduate College, Gwalior (M.P.) on 5th November 2011
48. Delivered Keynote Address in UGC Sponsored National Seminar on Green Chemistry organized by Department of Chemistry, S.N. College Thiruvananthapuram, Kerala (15-16 December, 2011).
49. Delivered Inaugural lecture and conducted workshop on “Experiments on Green Chemistry” in Workshop on Recent Trends in Green Chemistry organized by Department of Chemistry, Daulat Ram College, University of Delhi (January 11-13, 2012)
50. Delivered lecture in the National Science Festival organized by St. Stephen's College, University of Delhi from, 20 January 2012 to, 22 January 2012.
51. Delivered lecture on Green Chemistry for Sustainability and Environmental in National Symposium On Global Trends in Research in Chemical Sciences” organized by Department of Chemistry, Pt. L.M.S. Govt. Autonomous College, Rishikesh (January 2-3, 2012)
52. Delivered lecture on Green chemistry for a sustainable future in International Symposium on Recent Advances in “Green Chemistry” and “Chromatography Sciences” organized by IOCL Faridabad and ISAS Delhi Chapter at Manav Rachna International University, Faridabad (12-14 January, 2012)
53. Delivered Inaugural lecture and conducted workshop on “Demonstration of Green Chemistry Experiments” in organized by Department of Chemistry, MMH College, Ghaziabad (February 19, 2012)

54. Delivered Keynote address in “National Conference on New Methods and Technologies for Water Conservation & Purification” organized by Poornima Institute of Engineering & Technology, Jaipur (March 2012)
55. Delivered Lecture in International Conference on Global Trends in Pure and Applied Chemical Sciences”, organized by Asian Journal of Chemistry, on March 3-4, 2012 in Udaipur.
56. Delivered lecture and conducted a workshop on “Experiments on Green Chemistry” in National Seminar on Recent Trends in Chemistry organized by Department of Chemistry, Sri Venkateswara College, Delhi Univ. (March 20, 2012)
57. Delivered Keynote address in “National Seminar on “Carbon Emission Versus Go Green, Is There A Midway!”” organized by Rajasthan Institute of Engineering & Technology Jaipur (March 18, 2012)
58. Delivered lecture on “Water Quality Issues in India due to Environmental Pollution” in ACS meeting on Sustainability and Water Reclamation on 25th March 2012 at Hotel Hilton, San Diego, USA
59. Delivered Keynote address in “National Conference on Sustainable Development and Role of Technologies NCSVRT-2012” on 18th May, 2012 organized by Rajasthan College of Engineering for Women, Jaipur.
60. Presented “Initiatives taken by Green Chemistry Network Centre for promoting Green Chemistry Education and Research in India” in the Session “Going Global: Green Chemistry in China and India” at the ACS 16th Annual Green Chemistry & Engineering Conference held on June 18-20, 2012.
61. Delivered invited Lecture in student workshop for NSF supported and pre-registered students in ACS 16th Annual Green Chemistry & Engineering Conference held on June 21, 2012.
62. Delivered Inaugural lecture and conducted workshop on “Demonstration of Green Chemistry Experiments” at Manav Rachna College of Engineering, Faridabad (July 9, 2012)
63. Delivered lecture on Green Chemistry in Education as a mentor at Kanya Mahavidyala Jalandhar (Punjab) on 18th August 2012 in INSPIRE camp to encourage students for research and higher studies in basic Science sponsored by DST.
64. Delivered invited lecture in a two day National Conference on Green Chemistry on 18th and 19th September 2012 (NCGC12) organized by SRM University, NCR Campus, Modinagar, UP.

65. Delivered an invited lecture on "Research and Educational Activities of Green Chemistry Network Centre " in the **National Seminar "Recent Advancements in Chemistry"**, RAC 2012 held from Sept 29 to Sept 30, **2012** organized by Department of Chemistry, CCS University, Meerut.
66. Delivered Keynote presentation and chaired session in "**First National Convention on Climate Change and Water**" organized by Suresh Gyan Vihar University on Oct-10, **2012**, Jaipur.
67. Delivered invited lecture on "Green Chemistry in Education and Research" at the **national seminar on "Green Chemistry for Greener Environment"** held on 26-27th Nov. **2012** at Mizoram University (MZU), Aizawl.
68. Delivered invited lecture and chaired a session in "**National Conference on Environmental Conservation and Management for Sustainable Era**" held on December 20-22, **2012** and organized by S.S. Jain Subodh P.G. College, Jaipur.
69. Delivered Keynote address on Green Chemistry in Education and Research in **National Conference on "Green Technologies for Green Environment"** on 18th February **2013** organized by Chemistry Department of GVM Girls College, Sonapat.
70. Honored by Central University of Gujarat for the contribution in Green Chemistry and delivered invited lecture in **International Conference on Emerging Trends in Chemical Sciences** (14th-15th March, **2013**).
71. Delivered an invited lecture on "Green Chemistry: Chemistry for a Sustainable Future" on 23rd March in a **Symposium on Modern Trends in Chemistry** organized by M. S. University, Vadodara.
72. Delivered invited lecture on 1st April **2013** in **science innovation camp** sponsored by Department of Science & Technology, New Delhi and organized by Thapar University, Patiala.
73. Presented "Green chemistry education, networking and outreach activities of Indian Green Chemistry Network Centre" at the **ACS 17th Annual Green Chemistry & Engineering Conference** held on June 18, **2013** at the Bethesda North Marriott Hotel & Conference Center, Maryland 20852 USA.
74. Presented "Green Chemistry Network Centre (GCNC) developing a roadmap for Green Chemistry Education in India" at the **ACS 17th Annual Green Chemistry & Engineering Conference** held on June 20, **2013** at the Bethesda North Marriott Hotel & Conference Center, Maryland 20852 USA.

75. Delivered an invited lecture on “Green Chemistry: Chemistry for a Sustainable Future” on 8th August 2013 in a National Seminar on Current Trends in Chemical Education organized by Department of Chemistry DDU Gorakhpur University.
76. Delivered invited lecture as opening speaker in the national seminar on “Green technologies in Unit operations” jointly organized by the Gujarat pollution control board and Nandesari Industry Association at Vadodara Gujarat on 16th August, 2013.
77. Delivered keynote lecture in 4th Asia-Oceania conference on Green and Sustainable Chemistry (AOC-4 GSC) held on 3-6 November 2013 in New Tapei City, Taiwan.
78. Delivered talk on the “Green Chemistry: A safer approach on nanomaterials”, on 22nd November 2013 in Education Programme course on “Nanotoxicity-concern and safety measures” organized by CFEES DRDO Delhi.
79. Delivered an invited lecture on “Green Chemistry” in a non-profit Science Outreach activity organized by research scholars of Cambridge University for the motivation of high school students towards pursuing career in science, on 12th Dec 2013 at IIT Delhi.
80. Invited to take a session with demonstration in the INSPIRE Internship Program at Amity University Noida Campus on 20-24th January 2014.
81. Delivered a keynote address in the National Seminar on “Chemistry and Applied Sciences for Sustainable Development” (CASSD 2014), organized by Govt. L.P. Post Graduate College, Morar, Gwalior, M.P. on 15th-16th February 2014.
82. Delivered a keynote lecture in a DST Sponsored National Conference on “New Dimensions in Green technology for Sustainable Development” (NCNDGS-2014) on 21st February 2014 at Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur.
83. Delivered an invited lecture in on “Green technologies: Need for the Future” in the National Conference on “Recent Trends in Research in Chemical Sciences” sponsored by Science & Engineering Research Council (SERC) Department of Science & technology, Govt. of India on 22nd February 2014 at Department of Chemistry, Manipal University, Jaipur.
84. Invited as a speaker by Deakin University, Australia for an Indo-Australia Workshop supported by Department of Science & Technology (DST), Govt. of India and Department of Industry Innovation, Science, Research and Tertiary Education, Govt. of Australia on 12th - 13th March 2014 in Deakin University, Australia.
85. Delivered an invited lecture in the ISCA Haridwar Chapter National Conference on “Innovations in Science & technology for Inclusive Development” at Chaudhary Charan Singh University, Meerut on 22-23th March 2014.

86. Invited as Chief Guest and delivered a lecture in the workshop “Environmental Protection and Green Technology (EPGT)” organized by Green Chemistry, Club of Chemistry Department, FET, Manav Rachna International University, Faridabad on 26th March 2014.
87. Invited to Present “Wealth from waste through green chemistry: GCNC contribution towards few real world cases in India” at the ACS 18th Annual Green Chemistry & Engineering Conference held on 17-19th June 2014 at the Bethesda North Marriott Hotel & Conference Center, Maryland 20852 USA.
88. Invited to deliver a talk in Faculty Development Programme (FDP) under TEQIP-II on 8th August 2014 on the topic “Contribution of Green Chemistry for Health, Environment & Nanotechnology” at Dr. SSBUI CET Auditorium, Panjab University, Chandigarh.
89. Delivered Inaugural lecture on 11th September 2014 at Miranda House for "Green Chemistry and Environment" add on course.
90. Acted as a mentor in DST Sponsored INSPIRE camp 2014 at ISF College of Pharmacy Moga from 27th to 31st October 2014.
91. Invited by Indo-US Science & Technology Forum as expert to take part in round table discussion in U.S.-India Technology Summit: Roundtable on Water Challenges on 19th November 2014 at India Expo Centre, Greater Noida, Delhi-NCR
92. Invited by Director NIT Patna to deliver lecture on its foundation day 28th January 2015 at department of Chemistry NIT Patna.
93. Invited to deliver Plenary lecture in National Conference on Recent Advances in Chemical & Environmental Sciences on 27-28th February 2015 at Arya P.G. College, Panipat, Haryana, India.
94. Invited to deliver keynote address in UGC Sponsored National Seminar on ‘Recycling Methodology- The Need of the Hour’ organized by R.R Bawa DAV College for Girls, Batala on 27th April 2015.
95. Invited to act as the Panelist in the session: World class scientific papers: Can India take the lead? during 5th edition of India Association Congress (IAC) held on 21st –22nd August 2015 at Bengaluru, India.
96. Invited as keynote Speaker on Green Chemistry and its future prospects on 30th September 2015 at Govt.V.Y.T.PG. Autonomous College Durg, Chhattisgarh, India

97. Invited to deliver inaugural lecture as Chief Guest of National Seminar in Chemistry Department entitled “Green Chemistry” on 28-29th October 2015 at Bhilai Mahila Mahavidyalaya, Bhilai Distt. Durg (Chhattisgarh)
98. Delivered Keynote address in Multidisciplinary National Seminar on “Recent Advances in Science and Technology” organized by Shanti Devi Arya Mahila College, Dinanagar, Gurdaspur on 14th November 2015.
99. Invited to deliver lecture in a three-day national workshop on “Green Chemistry” (15th to 17th October 2015) on 15th October 2015 organized by Department of Chemistry, SRM University NCR Campus (Modinagar).
100. Invited to deliver lecture in a national conference on “Environmental pollution, Health hazards and prevention” on 11-12th December 2015 organized by Department of Chemistry, M.S.J. Govt. College, Bharatpur (Raj).
101. Invited to act as Chief Guest and deliver a lecture in the TEQIP II sponsored short term course on “Recent Trends in Green Chemistry and Technology” at NIT Patna during 27th-28th November, 2015.
102. Delivered keynote address in the “National Conference on Modern Trends in Chemical Sciences” organized by Department of Chemistry, Faculty of Science, Mohanlal Sukhadia University, Udaipur Rajasthan on 30th January, 2016.
103. Invited to deliver plenary lecture and Chair the valedictory session as Guest of Honor and also green chemistry session in 6th International Conference on “Technology, innovation and management for sustainable development” from 11 to 13th February 2016 organized by ITM University, Gwalior.
104. Delivered lecture in the "National Workshop on The Growing Trends in Green Chemistry" at Department of Chemistry, Daulat Ram College, Delhi University on 26th February 2016.
105. Delivered lecture in “RASTANTRUM” organized by SHIVA JI college Delhi University on 17th March 2016.
106. Delivered keynote address in one-day Workshop on "Green Chemistry Practices in Teaching, Research & Industry: Essential Commitment for the Next Generation" organized by Chemistry department of autonomous Pt. L. M. S. Govt. Post Graduate College, Rishikesh on 30th March 2016.
107. Delivered Keynote address in “National Workshop in Green Chemistry” organized by Lingya’s University Faridabad on 8th April, 2016.
108. Invited as a panelist in “ACS Industry symposium on “Recent Advances in Drug Development” on 11-12 November, 2016 at Hyderabad, India

109. Delivered Keynote address in a “National Conference on Recent Advances Environmental Sciences and Engineering Technologies” organized by Jodhpur Institute of Engineering and Technology, Jodhpur on 21st-22nd November, 2016.
110. Delivered lecture in “International Conference on Green Trends in Environmental Sustainability” organized by St. Ann’s College for Women, Hyderabad, India on 16th-17th December, 2016.
111. Invited as the guest of honour in “National conference on Environmental Sustainability in Wastewater Remediation: Current Status and Future Prospects” by Sri Venkateswara College in association with Royal Society of Chemistry London North India Section on 20th January, 2017.
112. Delivered lecture on “National Seminar Sponsored by Department of Science and Technology on “A paradigm shift towards empowerment of women” organized by Department of Sciences of Kalindi College, University of Delhi on February 3-4, 2017.
113. Delivered keynote address in “National Conference on Clean & Green Energy: The Chemical & Environmental Aspects” organized by Department of Chemistry, Bhaskaryacharya College of Applied Sciences on 16th-17th Feb, 2017.
114. Delivered lecture in “National Seminar on Recent Innovations in Chemical Science & environmental technology” sponsored by UGC and organized by Sri Aurobindo College on 3rd & 4th March, 2017.
115. Delivered plenary lecture in “6th National Conference on Chemical & Environmental Sciences, Emerging Dimensions and challenges ahead (NCCES-2017)” organized by Arya P. G. College, Panipat in collaboration with ISCA (Kurukshetra Chapter) IOCL, Panipat Refinery on 1st April, 2017.
116. Delivered lecture (invited speaker) in National Workshop on “Celebrating Earth Day: A step towards Nurturing Nature” organized by School of Engineering, G. D. Goenka University (GDGU), Gurgaon and National Environment Science Academy (NESA), Delhi on 28th April, 2017.
117. Delivered lecture on Green Chemistry Network Centre (GCNC) at University of Delhi: Making Green Chemistry an essential component of Chemical Education in India in “21st Annual Green Chemistry & Engineering Conference (GC&E)” hosted by the ACS Green Chemistry Institute® at Reston, Virginia on June 13-15, 2017.
118. Delivered invited lecture in the EAS Technical Session Surface Science and Spectroscopy of Eastern Analytical Symposium, Inc., Crowne Plaza, Princeton, New Jersey, USA on 14th November, 2017.
119. Delivered a talk in International Conference on Advances in Chemical Sciences and Allied Fields of Science, Health, Education & Environment held on 8th-10th March, 2018 at Career College Bhopal.

120. Invited to deliver lecture on **255th ACS National Meeting** organized by American Chemical Society (ACS) and held during March 18-22, **2018** at New Orleans Morial Convention Center, New Orleans, Louisiana, USA.
121. Delivered invited lecture in **National Conference on “Biotechnology and Environment for Sustainable Development (BioESD2019)** by Dr. B. Lal Institute of Biotechnology held at 29th March **2019**.
122. Delivered lecture in **International Virtual Conference on Innovative Research in Chemical Sciences (IRCS-2020)** organized by Department of Chemistry, SRM Institute of Science & Technology, Ramapuram Campus Chennai on 29th June **2020**.
123. Invited as a speaker to deliver talk in **24th Annual Green Chemistry & Engineering virtual Conference** organized by ACS Green Chemistry Institute® on 18th June **2020**.
124. Invited as a keynote speaker in **International Webinar on “The Role of Green Chemistry in Controlling Environmental and Ocean Pollution”** by Department of Chemistry, Gangasheel Mahavidyalaya, Bareilly, UP on 17th July, **2020**.
125. Invited as a resource person in a Two Day National Webinar on **“Environment, Sustainability and education: Rethinking during COVID Pandemic”** on June 5 and 6, **2020** organized by Department of Education, University of Delhi.
126. Delivered lecture in weekly webinar series on **“Green Chemistry: Designing Chemistry for Environment and Human Health”** organized by Save The Environment, Kolkata on 29th August, **2020**.
127. Invited as Guest of Honour and delivered Keynote lecture in virtual conference on **“Green Chemistry in College Education”** in Gyan Ganga :Initiative for Teaching-Learning Excellence in Chemistry on 7th September, **2020** organized by Directorate of College Education, Rajasthan & Government Dungar College, Bikaner, Rajasthan.
128. Invited as a Resource Person in **Science Academies’ Virtual Lecture Workshop on “Green and Sustainable Chemistry”** organized by Department of Chemistry, Rajiv Gandhi University on 17th-18th December, **2020**.
129. Invited as a Keynote Speaker in virtual **“National Conference on Recent Advances in Chemical & Environmental Sciences: (RACE2021)”** organized by Department of Chemistry and Environmental Science, School of Sciences, ITM University Gwalior on 16th January, **2021**.
130. Delivered Invited lectures on **“Green Chemistry Education for Sustainable Environment”** and **“Green Chemistry Experiments”** in a **“Six-Day Online Faculty**

Development Program on Teaching and Learning of Green Chemistry: Nurturing a new generation of chemists” organized by Department of Chemistry, NIT Warangal, in Association with the Teaching Learning Centre established under the Scheme of PMMMNMTT, Ministry of Education, Govt. of India, from 26th February – 3rd March, **2021**.

- 131.** Delivered Invited lecture in National Conference on “**Role of Indian Scientists in Sustainable Development**” on the occasion of National Science Day, NSD2021 on theme “Future of STI (Science, Technology and Innovation): Impacts on Education, Skills and Work” organized by Faculty of Sciences, J. C. Bose University of Science and Technology, YMCA on 1st March **2021**.
- 132.** Delivered Invited lecture in International Conference on “**Environment, Water, Agriculture, Sustainability and Health (EWASH-2021): United Together In The Battle Against Pandemic**” organized by Save The Environment, Hindu College (University of Delhi), Royal Society of Chemistry, North India, CSIR-National Environmental Engineering Research Institute Delhi Zonal Centre (DZL) and Environment and Social Development Association (ESDA), Delhi held online on 21st – 22nd January, **2022**.
- 133.** Delivered Keynote lecture on “Green and sustainable chemistry education today for a better tomorrow” in “**7th National Conference on Innovations in Science, Engineering & Technology**” organized by Arya P.G. College, Panipat on 19th February, **2022**.
- 134.** Delivered Keynote lecture on “Green Chemistry Network Centre: Contributions towards Catalysis and Green Synthesis” as Invited Speaker in National Conference on “**Green and Sustainable Chemistry-2022**” (GSC-2022) organized virtually by Department of Chemistry, Indrashil University on 26th, 28th February & 2nd March, **2022**.
- 135.** Delivered Keynote lecture in **Workshop on “Green Chemistry Education Today for a Sustainable Tomorrow & Technology: Special emphasis on Catalyst, Food, Water and Drug research**” organized by Green Chemistry Network Centre, University of Delhi, RSC London North India Section, and University of Ladakh, Ladakh on 22nd August, **2022** at University of Ladakh, Ladakh.
- 136.** Delivered Invited lecture on “**Implementation of Green Chemistry Principles-A Practical Approach**” at **TATA Chemicals Pune**” at TATA Chemicals Pune on 24th August, **2022**.
- 137.** Delivered Keynote lecture in **Workshop on “Green Chemistry and Wastewater Treatment**” organized by Green Chemistry Network Centre, University of Delhi and P.G. Department of Chemistry, DAV College, Amritsar on 24th September, **2022** at DAV College, Amritsar.

138. Delivered invited talk on “Role of Green Chemistry in the Sustainable Industrial Practices” at Reckitt and Benckiser-A Multinational Industry, Gurugram on 8th December, 2022.
139. Delivered Keynote lecture in International Workshop and Symposium on “Green Chemistry & Technology: Special emphasis on Catalyst, Food, Water and Drug research” organized by Green Chemistry Network Centre, University of Delhi, RSC London North India Section, and P.G. Department of Chemistry, Govt. Dungar College, Bikaner between 22nd -24th December, 2022 at Govt. Dungar College, Bikaner.

Research Projects (Major Grants/Research Collaboration)

- Academia-Industry Collaboration project from Industry: Reckitt Benckiser-a Multinational Industry, on “Development and analysis of repellent active formulations for sustained consumer benefits” (2021-2024). **Funding: Rs 42,46,080.**
- DST sponsored project on “Fabrication, characterization and application of functionalized silica based magnetic nanocatalyst for the degradation of organic pollutants from waste water” (2020-2023). **Funding: Rs 61,55,027.**
- DST-WTI sponsored project on “Designing and synthesis of highly stable functionalized silica based organic-inorganic hybrid materials/nanomaterials for the online and selective recovery of various metals from different charged wastewater” (2017-2020). **Funding: Rs 47,27,000.**
- TERI sponsored project on “Dendrimer-Lipid Complexation: Host-Guest Interactions” (2013-2016) **Funding: Rs.15,10,560**
- Synthesis of biofuels and value added chemicals from lignocellulosic biomass (2012-2015 Council of Scientific and Industrial Research) **Funding: Rs 15,75,000**
- Preparation, characterization and application of metal/metal oxide nanoparticle materials for industrial catalysis (2011-2014 University Grant Commission) **Funding: Rs 7,11,800**
- Vigyan Prasar (DST) Govt. of India sponsored Project on developing Resource material on Green Chemistry for school & college students and teachers. (2012)
- Designing of metal selective functionalized silica gels and their applications in Development of specific resins for Cr and Fe followed by scale up of method of extraction of metals by developing bioreactor. (Industry-DU-DST Purse Grant) **Funding: Rs. 9.00 Lakhs**

- IUPAC CHEMRAWN GCI-DEN Grant Award for the years 2005, 2006 and 2007 consecutively with the funding of US\$ 25,000 by American Chemical Society's Green Chemistry Institute for Green Chemistry Networking in India. **(2005-2008)**
- Study on Moradabad based Metal Handicraft Industry related to Raw material, electroplating waste and their impact on Environment and Strengthening of Existing Laboratory for Research & Development, Standardization, Training and Certification of Metal Handicrafts under the scheme of Research & Development (Ministry of Textiles, Govt. of India)
Funding: Rs. 79.47 Lakhs
- One-pot and solventless synthesis of metallo-porphyrins: A green chemistry approach (2009-2011 University Grants Commission) **Funding: Rs. 9.328 Lakhs**
- Designing and validating Green Chemistry Experiments as Member of DST Green Chemistry Experiment monograph committee constituted by DST Green Chemistry Task Force **(2008 Department of Science & Technology) Funding: Rs. 1.0 Lakh**
- Bio-extraction of chromium from plants and microbes and formulation development of useful microbes as bio-package for cleaning and reclamation: field demonstration of the bio-package on tannery effluent affected sites. **(2004-2007 Department of Biotechnology)**
Funding: Rs. 36 Lakhs approx.
- Designing of metal selective chelating polymers for use in explosive.
(2004 – 2005 Ministry of Defence DRDO) Funding: Rs. 10.5 Lakhs approx.
- Molecular modeling and chemical speciation studies on interaction of dihydroxycoumarins with metal ions for designing a potent anti-oxidant. **(2002-2005 Council of Scientific and Industrial Research) Funding: Rs. 5,57,149 approx.**
- Recoveries & recycling of heavy metals from electroplating waste **(2002-2005 requirement reality organization) Funding: Rs. 2.5 Lakhs approx.**
- Development of chelating polymer based sensors for detection of toxic metals in effluents.
(1999-March 2002) Ministry of Defence DRDO)
- Interaction of metal ions with quinolone drugs and their structural analogs: molecular modeling, chemical speciation and structure-activity relationship. **(1999-2002 University Grants Commission New Delhi)**
- Designing of anti-aids chelators **(awarded by royal society of chemistry (London)(1998))**

- Major research project entitled, “Computer modeling and formation studies of ternary complexes containing two different metal ions and the implication for metal-metal stimulation phenomena in vivo & environment.” (1999-2001 Awarded by University Grants Commission New Delhi)
- Major research project entitled, “Chelating polymers and related support for separation/pre-concentration of toxic and trace metals in environmental samples” (1993-1996 Awarded by University Grants Commission New Delhi.)

Awards and Distinctions

- 2022: Awarded Certificate of Appreciation for being Highly Cited Researcher (2021) by the Royal Society of Chemistry.
- 2022: Recognized as World’s Top 2% Scientists (2021-2022) by the Stanford University.
- 2022: Nominated by Ministry of Environment, Forest & Climate Change (HSM Division), Government of India to act as a member of Expert Committee (EC) and Technical Review Committee (TRC) for reviewing applications for import/export of wastes listed under Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016.
- 2022: Section Editor: Current Indian Science Journal
- 2021: Awarded “NESA Honorary Fellowship of the Year Award- 2020” on 29th January, 2021 by National Environmental Science Academy.
- 2021: Awarded “STE Green Excellence Award, 2020” for his contribution in popularizing the concept and applications of Green Chemistry in India on 19th December, 2020 by Save The Environment.
- 2020: Editorial Board Member, Current Research in Green and Sustainable Chemistry (Elsevier Publications)
- 2019: Honorary Professor of Deakin University, Australia
- 2019: Convener of Undergraduate Syllabus Revision, University of Delhi of all courses related to Chemistry.
- 2019: American Chemical Society’s Committee on International Activities (IAC) awarded a 2019 IAC Global Innovation (GI) Grant of **\$5000 USD**.
- 2018: Series Adviser to the Editorial Board of RSC Green Chemistry Book Series.
- 2017-2018: Awarded “Green Chemistry Award” in recognition of commitment to and achievement in Green Chemistry by American Chemical Society.
- 2017: Invited to be the part of interview panel as Expert Member for assisting recruitment process for Department of Amity School of Applied Sciences at Amity University, Gurgaon.
- 2017: Nominated by DST to act as a member of Expert Committee to review ongoing/completed projects supported under Water Technology Initiative.
- 2017 Editorial board member of the journal “Nanotechnology for Environmental Engineering” published by Springer.
- 2016 Fellow of Royal Society of Chemistry London.

- **2016** Nominated by Chairman UGC to act as member of Expert Committee that has been constituted by the UGC to evaluate the proposals received under Indo-German Partnerships in Higher Education Programme (IGP).
- **2014-15** Nominated by Chairman UGC and DST to act as a Member of Committees for evaluation of Major Research Projects funded by UGC and DST.
- **2015** Provost of Gwyer Hall (<http://gwyerhall.du.ac.in/>) which is the oldest and most prestigious men's Hostel in the Delhi University.
- **2015** Member of the Board of Interdisciplinary Programmes constituted by Vice-Chancellor Delhi University for a term of three years as per provisions of Ordinance XV-A.
- **2015** Invited as expert to assess the technical progress of the projects awarded under DST-UKIERI joint schemes on 21st and 22nd September at Hotel Lalit Delhi.
- **2015** Invited officially by American Chemical Society to present work on “Silica decorated magnetically retrievable base metal nanocatalysts for various organic transformation reactions” at the ACS 19th Annual Green Chemistry & Engineering Conference held on July 14-16, 2015 at the Bethesda North Marriott Hotel & Conference Center, Maryland 20852 USA.
- **2014** Invited by Royal Society of Chemistry and the UK Science & Innovation Network to attend the following events in Durban, South Africa from August 17-22, 2014:
 - **August 17-21:** 5th IUPAC international conference on green chemistry as speaker and chair of a session.
 - **August 21-22:** UK-India-Brazil-Africa workshop on the use of green chemistry for the sustainable production of biofuels
- **2014** Invited by American Chemical Society to present “Wealth from waste through green chemistry: GCNC contribution towards few real world cases in India” at the ACS 18th Annual Green Chemistry & Engineering Conference held on June 17-19, 2014 at the Bethesda North Marriott Hotel & Conference Center, Maryland 20852 USA.
- **2013** Honored by Professor Y.K. Alagh, former Union Minister of State for Science and Technology, former VC of the Jawaharlal Nehru University for his contribution for the popularization of Green Chemistry in India during inaugural function of International Conference on Emerging Trends in Chemical Sciences on 14th March, 2013 organized by Central University of Gujarat at Gandhi Nagar.
- **2013** Invited by American Chemical Society to present “Green chemistry education, networking and outreach activities of Indian Green Chemistry Network Centre” at the ACS 17th Annual Green Chemistry & Engineering Conference held on June 18, 2013 at the Bethesda North Marriott Hotel & Conference Center, Maryland 20852 USA.
- **2012** Invited by Royal Society of Chemistry (London) to attend the Royal Society of Chemistry General Assembly and International Delegate Day 2012 on 8 - 10 November, Birmingham Hilton Metropole, UK as International Representative for India
- **2012** Member Royal Society of Chemistry London International Steering Group
- **2012** Invited by American Chemical Society's Green Chemistry Institute to deliver lecture on International Green Chemistry at post conference students workshop for NSF scholars and pre-registered students on 21st June 2012 (16th ACS Green Chemistry & Engineering

Conference held on 18-20 June 2012) at Washington DC USA
<http://acswebcontent.acs.org/gcande/pdf/Student%20Workshop%20Agenda.pdf>

- **2010** Indian National Science Academy-Japan Society for the Promotion of Science (JSPS) award
- **2010** Nominated to visit Mauritius under 4th UGC-TEC Consortium Agreement 2007-2010
- **2009** Member of DST International Division Project Assessment Committee for International Projects.
- **2009** Invited by American Chemical Society's Green Chemistry Institute to deliver opening lecture in Green Chemistry Education Train the Trainer Workshop at 13th ACS Green Chemistry & Engineering Conference held on 22-26 June 2009 at University of Maryland USA
- **2008** Honorary Secretary Royal Society of Chemistry, London (North India Section)
- **2008** Invited by Royal Society of Chemistry (London) to attend the Royal Society of Chemistry General Assembly 2008 as International Representative for India in London, United Kingdom on November 12-14th 2008.
- **2008** Member of DST Green Chemistry Experiment monograph committee constituted by DST Green Chemistry Task Force for preparing Green Chemistry Experiments Manual
- **2007** IUPAC CHEMRAWN GCI-DEN Grant Award of US\$ 5,000 by American Chemical Society's Green Chemistry Institute for Green Chemistry Networking in India.
- **2006** IUPAC CHEMRAWN GCI-DEN Grant Award of US\$ 10,000 by American Chemical Society's Green Chemistry Institute for Green Chemistry Networking in India.
- **2005** IUPAC CHEMRAWN GCI-DEN Grant Award of US\$ 10,000 by American Chemical Society's Green Chemistry Institute for Green Chemistry Networking in India.
- **2003** Member DST Evaluation Committee for JSPS (Japan) Award headed by Prof. S.K. Joshi Ex- DG CSIR
- **2002** Indian National Science Academy-Japan Society for the Promotion of Science (JSPS) award
- **2001** Incharge International Chapter of The American Chemical Society –Green Chemistry Institute
- **2001** Chaired a session on “Clean Water and Air through Green Chemistry” in IUPAC CHEMRAWN XIV World Conference on Green Chemistry: University of Colorado at Boulder, June 9-13, 2001.
- **1999** World Green Award
- **1998** Research Grant Award by Royal Society of Chemistry London
- **1998** Japan Society For The Promotion Of Science (JSPS) Post Doctoral Award
- **1995** Indo-German Cultural Exchange Programme Award nominated by UGC
- **1995** UGC National Research Scientist “B” equivalent to Reader

Association with Professional Bodies

- Member American Chemical Society

- Member Royal Society of Chemistry, LONDON
- Member Green Chemistry Network RSC London
- Life Member National Environmental Science Academy (NESA)
- Life member of Indian Chemical Society, Calcutta.
- Life member of Indian Society of Analytical Scientist, Bombay.
- Life member of Indian Association of Nuclear Chemists & Allied Scientists, BARC, Bombay.
- Life member of Indian Science Congress Bombay
- Member Indo-US Green Chemistry Network

Other Activities

- Member of BRS, University of Delhi
- Member of DRC, Department of Chemistry, University of Delhi.
- Editorial board member of the journal “Nanotechnology for Environmental Engineering” published by Springer.
- Chancellor’s nominee on the selection committees in Chemistry for M D University Rohtak and member of selection committees for various Universities and Institutes including Banaras Hindu University, Jawaharlal Nehru University, Central University Rajasthan, Dayal Bagh University Agra, BITS MESRA, Ministry of Textiles, Thapar University, ITM University, NIT Patna, CSIR-TKDL Unit, K M College Delhi University, Hansraj College Delhi University, Deshbandhu College Delhi University, Deen Dayal Upadhyaya College Delhi University, Dyal Singh College Delhi University, Maitreyi College Delhi University, Miranda House College Delhi University, Zakir Husain College, Rajdhani College, ARSD College Delhi University, etc. Chaired various selection committees held for the appointment of Assistant Professors in Zoology, History, Political Science, Hindi etc. at Dyal Singh College Delhi University.
- Invited as Expert in interview Board at Uttarakhand Public Service Commission, Gurukul Kangari, Haridwar, Near Gurukul Kangari University, Haridwar for Lecturer, Chemistry (General Branch) in Govt. Colleges of Uttarakhand.
- Invited as subject expert in the promotion for the post of Professors in Department of Chemistry, D.D.U. Gorakhpur University.
- Nominated by the Vice-Chancellor as one of the expert in selection committee for the applicants of the Faculty Training Programme run by the University of Delhi. In this programme, young college teachers are fully sponsored by the University of Delhi to do one year Master's course in their allied areas of specialization at the universities in UK which are the members of the Universitas 21 Network of Higher Education
- UGC member of Governing body of Autonomous Pt. L.M.S. Autonomous Govt. Post Graduate College Rishikesh.
- Member Governing body and treasurer of Dyal Singh College Delhi University
- Member Governing body Ramanujan College Delhi University
- Member Board of Studies in Chemistry for Universities (Guru Jambheshwar University of Science & Technology, Hisar, Gautam Buddha University, Greater Noida, Manav Rachna Faridabad, Mizoram University, Lingaya's University Faridabad, Dayalbagh Educational Institute, Dayalbagh, Agra)
- Member of Research Degree committee (RDC) in the discipline of Applied Science (Chemistry) of Punjab Technical University etc.

- Member panel for HRD Selection Committee for Government Scholarship 2015-16 which is scheduled to be held on 17-02-2015.
- UGC nominee in the advisory committee for the S.A.P. granted to Department of Chemistry, Lucknow University.
- Member Chemistry Syllabus designing committee of Central University Rajasthan for designing Green Chemistry Syllabi.
- Editorial Advisory Board Member of the journal Current Microwave Chemistry published by Bentham Science Publishers
- Editorial Board Member of Current Research in Green and Sustainable Chemistry.

Reviewer for the journals (ACS Sustainable Chemistry & Engineering, Inorganic Chemistry, Current Research in Green and Sustainable Chemistry, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Journal of Chemical Education, Journal of Molecular Liquids, Journal of CO₂ Utilization, Inorganic Chemistry Communications, Current Catalysis, Separation Science and Technology, Applied Catalysis A: General, Applied Catalysis B: Environmental, Reactive and Functional Polymers, Journal of Heterocyclic Chemistry, Toxicological & Environmental Chemistry, The International Nano Letters, Journal of the Brazilian Chemical Society, Indian Journal of Chemistry Sec A, Journal of Hazardous Materials, Applied Water Science, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Marine Chemistry, Journal of the Electrochemical Science and Engineering, Phosphorus, Sulfur, and Silicon and the Related Elements, Applied Water Science, Journal of Polymers and the Environment, International Journal of Environmental Analytical Chemistry, Catalysis Communications, Springer Journal Research on Chemical Intermediates, Food Analytical Methods, Industrial & Engineering Chemistry Research, Green Chemistry Letters and Reviews, Clean - Soil, Air, Water, Separation and Purification Technology, Chemical Engineering Journal, Water, Air, & Soil Pollution, Talanta, Environmental Technology, Journal of Molecular Structure, Canadian Journal of Chemistry, International Journal of Thermal Sciences, Environmental Science & Technology, Analytica Chimica Acta, Chemosphere, Journal of Chemical Sciences, Mini-Reviews in Medicinal Chemistry, Current Medicinal Chemistry, ACS and RSC journals such as New Journal of Chemistry, Catalysis Science & Technology, Green Chemistry, RSC advances, Dalton Transactions, etc.)

Editorial board member of the journal “Nanotechnology for Environmental Engineering” published by Springer.

Editorial board member of the journal “Current Research in Green and Sustainable Chemistry” published by Elsevier.

Patents

1. A. Adholeya and **R.K. Sharma** (2010), Patent: **CBR 4171 1146/del/2010**
2. **R.K. Sharma**,* A. Adholeya*, CBR/11584, Registration No.-**3461/DEL/2012**
3. **R.K. Sharma**,* A. Adholeya*, Anil kumar, Registration No.- **3287/DEL/2013**
4. **R.K. Sharma**,* A. Adholeya*, Registration No.- **3288/DEL/2013**

