




Faculty Proforma

Title	Professor	First Name	Rajeev	Last Name	Gupta	
Designation	Professor					
Address	Office: Department of Chemistry, University of Delhi, North Campus, Mall Road, Delhi – 110 007 Residence: Provost's Residence, International Students House (ISH), University of Delhi, Mall Road, Delhi – 110 007					
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Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Indian Institute of Technology – Kanpur				2000	
M.Sc.	Kanpur University, Kanpur				1994	
B.Sc.	Kanpur University, Kanpur				1992	
Career Profile						
1.	University of Delhi	Professor	May 2009 – Onwards	Teaching and Research		
2.	University of Delhi	Associate Professor	May 2006 – May 2009	Teaching and Research		
3.	University of Delhi	Reader	May 2003 – May 2006	Teaching and Research		
4.	University of Kansas (USA)	Post–doct. Associate	June 2000 – May 2003	Research		
5.	I.I.T. – Kanpur	Research Associate	July 1999 – May 2000	Research		
Administrative & Academic Assignments						
1. Serving as the <u>Provost</u> of International Students House (ISH), University of Delhi, Mall Road, Delhi – 110 007 since March 10 th 2016						
2. Served as the <u>Warden</u> of International Students House (ISH), University of Delhi, Mall Road, Delhi – 110 007 during May 26 th 2005 – March 9 th 2016						
3. Serving as the <u>Member</u> – Garden Committee, University of Delhi since November 2011						
4. Served as the <u>Member</u> – Board of Research Studies (BRS), University of Delhi during 2013 – 2014						
5. Served as the <u>Member</u> – Faculty of Science, University of Delhi during 2013 – 2014						
6. Served as the <u>Member</u> – Procurement Committee for Equipment/ Consumables/Chemicals, University of Delhi during 2013 – 2014						
7. Serving as the <u>Member</u> – Examination Disciplinary Committee, University of Delhi since 2013						
8. Serving as the <u>Member</u> – Examination Disciplinary Committee, South Campus, University of Delhi since 2015						
9. Serving as the <u>Convener</u> – Single Crystal X-Ray Diffraction Facility, USIC, University of Delhi since 2008						
10. Served as the <u>Secretary</u> – Department Research Committee (DRC), Department of Chemistry, University of Delhi (2010 – 2012)						
11. Assisted as a <u>Member</u> – Organizing Committee for organizing various National and International Conferences and Symposia in the Department of Chemistry, University of Delhi						
12. Served as the <u>Convener</u> – Inorganic Section, Department of Chemistry (2008 – 2009)						
13. Served as the <u>Deputy Superintendent</u> of Examination for M.Sc. – Chemistry Theory Examinations (2008 – 2009)						
14. Served as the <u>Deputy Superintendent</u> of Examination for M.Sc. – Chemistry Practical Examinations (2012 – 2013)						
15. Served as the <u>Superintendent</u> of Examination for Ph.D. – Chemistry Theory Examinations (2012 – 2013)						
16. Served as the <u>Superintendent</u> of Examinations for the Rector Prize Examination of the University of Delhi (2013)						
17. Served as the <u>Coordinator</u> – Centralized Evaluation Center for the M.Sc. – Chemistry and M.Tech. (CSPT) Theory Examinations (2014)						
18. Acting as a <u>Coordinator</u> and <u>Content Writer</u> for the Inorganic Chemistry Course(s) for the UGC's Project on <i>e – PG Pathshala</i> under the NMEICT (MHRD), Govt. of India						

19. Serving as a Reviewer for various National (DST, SERB, CSIR, DAE, BRNS) and International Funding Agencies
20. Served in the Paper Setting Committee for “Kishore Vaigyanik Protsahan Yojana” (KVPPY), Department of Science & Technology (DST)
21. Served in the Paper Setting Committee (Chemical Sciences) for “CSIR-JRF Examination” of Council of Scientific & Industrial Research (CSIR)
22. Served in the Paper Setting Committee for M.Sc. Entrance and other Competitive Examinations (Medical, Engineering, etc.) for our University and elsewhere
23. Served in the Evaluation Committee for the Union Public Service Commission (UPSC) Examinations
24. Serving as the Member – Board of Studies (M.Sc. – Chemistry), Ch. Bansi Lal University, Bhiwani (Haryana)
25. Serving as the Member – Board of Studies (B.Sc. and M.Sc. – Chemistry), The IIS University, Jaipur (Rajasthan)
26. Worked as the Member for various Departmental committees (Purchase, Bill, Instruments, Publications, Resource, Disciplinary, TRS Block Construction committees, etc.)

Areas of Interest / Specialization

Specialization: Inorganic and Coordination Chemistry

Research Interests: Coordination Chemistry, Supramolecular Chemistry, Bio-inorganic Chemistry, Ordered Materials, Magnetic Properties, Photo-physical Properties, Catalysis, Medicinal Inorganic Chemistry

Subjects Taught

M.Sc. Courses Taught:

- (i) Chemistry of *d* and *f* Block Elements
- (ii) Supramolecular Chemistry
- (iii) Photo-inorganic Chemistry
- (iv) Solid State Chemistry
- (v) Nuclear and Radiation Chemistry
- (vi) Coordination Chemistry

M.Tech. (CSPT), M.Phil. and Ph.D. Courses Taught:

- (i) Industrially Important Solids
- (ii) Chemistry of Trace Elements in Human Body
- (ii) Synthetic Chemical Modeling of Metalloenzymes and Metalloproteins

Research Guidance

1. Supervision of Awarded Doctoral Thesis: Eight

- (i) Mishra, Anurag. **2008**. Synthesis and Characterization of Novel Heterometallic Complexes Utilizing Coordination Complexes as the Building Block. University of Delhi.
- (ii) Singh, Jyoti. **2009**. Studies on Coordination Complexes with Synthetically Designed Tetradentate Amide – Based Ligands. University of Delhi.
- (iii) Kumari, Savita. **2009**. Effect of Ligand Architecture on the Structure and Properties of Nickel Complexes with Amide – Based Macrocyclic Ligands. University of Delhi.
- (iv) Singh, Amit Pratap. **2010**. Development of Coordination Complexes as Building Blocks for the Generation of Novel Heterobimetallic Complexes. University of Delhi.
- (v) Munjal, Megha. **2011**. Synthesis and Characterization of Nickel and Copper Complexes with Amide-based Ligands. University of Delhi.
- (vi) Ali, Afsar. **2012**. Coordination Complexes with Appended Functional Groups: Hydrogen Bonded Networks and Heterobimetallic Complexes. University of Delhi.
- (vii) Kumar, Girijesh. **2013**. Coordination Complexes Appended with Pyridine or Arylcarboxylic acid Groups: Extended Ensembles and Functional Materials. University of Delhi.
- (viii) Kumar, Sushil. **2013**. Studies on selected transition metal complexes of amide-based ligands: Evaluating the role of e⁻-withdrawing and e⁻-donating substituents on ligand. University of Delhi.

2. Supervision of Doctoral Thesis, under progress: Eight

- (i) Mr. Deepak Bansal, Date of Registration: 18.02.2011
- (ii) Mr. Sumit Srivastava, Date of Registration: 18.02.2011
- (iii) Mr. Sunil Yadav, Date of Registration: 17.05.2012
- (iv) Mr. Saurabh Pandey, Date of Registration: 10.10.2012
- (v) Mr. Gulshan Kumar, Date of Registration: 01.02.2013
- (vi) Mr. Vijay Kumar, Date of Registration: 29.01.2015
- (vii) Ms. Divya Prabha, Date of Registration: 29.12.2015
- (viii) Mr. Yogesh Kumar, Date of Registration: June-July, 2016

3. Supervision of Awarded M.Phil Dissertations: Three

- (i) Singh, Amit Pratap. **2005**. Synthesis and Characterization of Copper(II) Complexes of Amide – Amine – based Ligands with Potential of HIV – 1 Protease Inhibition Activity. University of Delhi.
- (ii) Mishra, Anupama. **2006**. Synthesis and Characterization of Copper(II) Complexes of Amide – Amine based Tri – aza Macrocyclic Ligands having Potential of Synthetic Rotamase Activity. University of Delhi.
- (iii) Pandey, Divya. **2007**. Synthesis and Characterization of Cobalt(II) Complexes of Amide – based Macrocyclic Ligands. University of Delhi.

4. Supervision of M.Phil dissertations, under progress: None

Publications Profile

Research papers published in Refereed/Peer Reviewed Journals (Last Five Years Only):

1. S. Srivastava, V. Kumar, Rajeev Gupta* **2016**. A Carboxylate-Rich Metalloligand and Its Heterometallic Coordination Networks: Syntheses, Structures, Topologies and Heterogeneous Catalysis, *Crystal Growth & Design*, *16*, 2874 – 2886.
2. D. Bansal, Rajeev Gupta* **2016**. Chemosensors Containing Appended Benzothiazole group(s): Selective Binding of Cu²⁺ and Zn²⁺ Ions by Two Related Receptors, *Dalton Transactions*, *45*, 502 – 507. (*Communication*)
3. G. Kumar, G. Kumar, Rajeev Gupta* **2016**. Lanthanide-based coordination polymers as the promising heterogeneous catalysts for ring-opening reactions, *RSC Advances*, *6*, 21352 – 21361.
4. D. Bansal, Rajeev Gupta* **2015**. Nickel and copper complexes of a pyridyl-appended tetra-amide ligand: Syntheses and characterization, *Journal of Indian Chemical Society*, *92*, 1823 – 1832.
[Invited Article: Special Issue in honor of Professor Animesh Chkravorty on the occasion of his 80th birthday].
5. S. Srivastava, H. Aggarwal, Rajeev Gupta* **2015**. Three-dimensional Heterometallic Coordination Networks: Syntheses, Crystal Structures, Topologies and Heterogeneous Catalysis, *Crystal Growth & Design*, *15*, 4110 – 4122.
6. G. Kumar, G. Kumar, Rajeev Gupta* **2015**. Manganese and Cobalt Based Coordination Networks as the Promising Heterogeneous Catalysts for Olefin Epoxidation Reactions, *Inorganic Chemistry*, *54*, 2603 – 2615.
7. S. Srivastava, M. S. Dagur, A. Ali, Rajeev Gupta* **2015**. Trinuclear {Co²⁺-M³⁺-Co²⁺} Complexes Catalyze Reduction of Nitro Compounds, *Dalton Transactions*, *44*, 17453 – 17461. (*Communication*)
8. P. Kumar, V. Kumar, Rajeev Gupta* **2015**. Arene-based Fluorescent Probes for the Selective Detection of Iron *RSC Advances*, *5*, 97874 – 97882.

9. A. Pal, S. Srivastava, P. Saini, S. Raina, P. P. Ingole, Rajeev Gupta, S. Sapr^a* **2015**. Probing the Mechanism of Florescence Quenching of QDs by Co(III)-Complexes: Size of QD and Nature of the Complex Both Dictate Energy and Electron Transfer Processes, *Journal of Physical Chemistry – C*, *119*, 22690 – 22699.
10. D. Bansal, S. Pandey, G. Hundal, Rajeev Gupta* **2015**. Heterometallic Coordination Polymers: Syntheses, Structures and Heterogeneous Catalytic Applications, *New Journal of Chemistry*, *39*, 9772 – 9781.
11. S. Yadav, S. Kumar, Rajeev Gupta* **2015**. Manganese Complexes of Pyrrole- and Indolecarboxamide Ligands: Synthesis, Structure, Electrochemistry, and Applications in Oxidative and Lewis-Acid-Assisted Catalysis, *European Journal of Inorganic Chemistry*, 5534 – 5544.
12. S. Kumar, R. R. Jha, S. Yadav, Rajeev Gupta* **2015**. Pd(II) Complexes with Amide-based Macrocycles: Syntheses, Properties and Applications in Cross-coupling Reactions, *New Journal of Chemistry*, *39*, 2042 – 2051.
13. D. Bansal, G. Hundal, Rajeev Gupta* **2015**. A Metalloligand Appended with Thiazole Rings: {Co³⁺-Zn²⁺} and {Co³⁺-Cd²⁺} Heterometallic Complexes and Their Heterogeneous Catalytic Applications, *European Journal of Inorganic Chemistry*, 1022 – 1032.
14. G. Kumar, G. Kumar, Rajeev Gupta* **2015**. Asymmetrical Metalloligands Based {Co³⁺-Cd²⁺} and {Co³⁺-Ag⁺} Coordination Polymers: Syntheses and Characterization, *Inorganica Chimica Acta*, *425*, 260 – 268.
15. S. Kumar, Rajeev Gupta* **2014**. Endogenous and Exogenous Ligand Dependent Formation of a Superoxide-bridged Dicobalt(III) Complex and Few Mononuclear Co(III) Complexes with Amide-Based Macrocyclic Ligands *European Journal of Inorganic Chemistry*, 5567–5576.
16. S. Kumar, M. Munjal, J. Singh, Rajeev Gupta* **2014**. Nickel and Copper Complexes of Pyrrolecarboxamide Ligands: Stabilization of M³⁺ Species and Isolation of Ni³⁺ Complexes, *European Journal of Inorganic Chemistry*, 4957 – 4965.
17. D. Bansal, G. Kumar, G. Hundal, Rajeev Gupta* **2014**. Mononuclear Complexes of Amide-based Ligands Containing Appended Functional Groups: Role of Secondary Coordination Sphere on Catalysis, *Dalton Transactions*, *43*, 14865 – 14875.
18. S. Srivastava, M. S. Dagur, Rajeev Gupta* **2014**. Two-dimensional {Co³⁺-Co²⁺} and {Fe³⁺-Co²⁺} networks and their heterogeneous catalytic activities, *European Journal of Inorganic Chemistry*, 4966 – 4974.
19. S. Srivastava, A. Ali, A. Tyagi, Rajeev Gupta* **2014**. {Cu²⁺-Co³⁺-Cu²⁺} and {Cu²⁺-Fe³⁺-Cu²⁺} Heterobimetallic Complexes and Their Catalytic Properties, *European Journal of Inorganic Chemistry*, 2113 – 2123.
20. A. Mishra, Rajeev Gupta* **2014**. Supramolecular Architectures with Pyridine-amide Based Ligands: Discrete Molecular Assemblies and Their Applications, *Dalton Transactions*, *43*, 7668 – 7682.
21. A. Ali, D. Bansal, Rajeev Gupta* **2014**. Synthesis, Characterization and Self-Assembly of Co³⁺ Complexes Appended with Phenol and Catechol Groups, *Journal of Chemical Sciences*, *126*, 1535 – 1546. (**Invited Article:** For the Special Issue on “Chemical Crystallography” on the occasion of International Year of Crystallography).
22. A. Ali, D. Bansal, N. K. Kaushik, N. Kaushik, E. Ha Choi, Rajeev Gupta* **2014**. Syntheses, characterization, and anticancer activities of pyridine-amide based compounds containing appended phenol or catechol groups, *Journal of Chemical Sciences*, *126*, 1091 – 1105.
23. G. Kumar, Rajeev Gupta* **2013**. Molecularly Designed Architectures – The Metalloligand Way, *Chemical Society Reviews*, *42*, 9403 – 9453.
24. A. Pal, S. Srivastava, Rajeev Gupta, S. Sapr^a **2013**. Electron transfer from CdSe/ZnS core shell quantum dots to Cobalt(III) complexes, *Physical Chemistry Chemical Physics*, *15*, 15888 – 15895.

25. G. Kumar, H. Aggarwal, Rajeev Gupta* **2013**. Cobalt Complexes Appended with para- and meta-Arylcarboxylic Acids: Influence of Cation, Solvent, and Symmetry on Hydrogen-Bonded Assemblies, *Crystal Growth & Design*, *13*, 74 – 90.
26. S. Kumar, S. Vaidya, M. Pissas, Y. Sanakis, Rajeev Gupta* **2012**. Synthesis and Properties of Dinuclear μ -Oxodiiron(III) Complexes of Amide-based Macrocyclic Ligands, *European Journal of Inorganic Chemistry*, 5525 – 5533.
27. A. Mishra, N.K. Kaushik, A. Ali, A.K. Verma, J.S. Adhikari, Rajeev Gupta* **2012**. Synthesis, Characterization, Antibacterial and Anticancer Screening of $\{M^{2+}-Co^{3+}-M^{2+}\}$ and $\{Co^{3+}-M^{2+}\}$ (M = Zn, Cd, Hg) Heterometallic Complexes, *Journal of Biological Inorganic Chemistry*, *17*, 1217 – 1230.
28. G. Kumar, Rajeev Gupta* **2012**. A Novel Co^{3+} -based Asymmetrical Building Block: Heterobimetallic Metallacycles versus Coordination Networks, *Inorganic Chemistry Communication*, *23*, 103 – 108.
29. G. Kumar, Rajeev Gupta* **2012**. Cobalt Complexes Appended with *p*- and *m*-Carboxylates: Two Unique $\{Co^{3+}-Cd^{2+}\}$ Networks and Their Regioselective and Size-Selective Heterogeneous Catalysis, *Inorganic Chemistry*, *51*, 5497 – 5499 (Communication). [**Most – read article for May 2012**]
30. A. Ali, G. Hundal, Rajeev Gupta* **2012**. Co^{3+} -based Building Blocks with Appended Phenol and Catechol Groups: Examples of Placing Hydrogen-Bond Donors and Acceptors in a Single Molecule, *Crystal Growth & Design*, *12*, 1308 – 1319.
31. A. P. Singh, G. Kumar, Rajeev Gupta* **2011**. Two-dimensional $\{Co^{3+}-Zn^{2+}\}$ and $\{Co^{3+}-Cd^{2+}\}$ Networks and their Applications in Heterogeneous and Solvent-free Ring Opening Reactions. *Dalton Transactions*, *40*, 12454 – 12461.
32. M. Munjal, S. Kumar, S. K. Sharma, Rajeev Gupta* **2011**. Nickel and copper complexes with few amide - based macrocyclic and open - chain ligands. *Inorganica Chimica Acta*, *377*, 144 – 154.
33. S. Kumar, Rajeev Gupta* **2011**. Copper(II) Complexes of 13-membered Amide-based Macrocyclic Ligands: Effect of Electronic Substituents on Redox Properties. *Indian Journal of Chemistry*, *50A*, 1369 – 1379. (**Invited Article**: Special Issue on the occasion of 150th birth anniversary of Sir PC Ray).
34. S. K. Sharma, Rajeev Gupta* **2011**. Studies on the Structure and Properties of Nickel Complexes in a Set of Amide-based 13-membered Macrocyclic Ligands. *Inorganica Chimica Acta*, *376*, 95 – 104.
35. M. Munjal, Rajeev Gupta* **2011**. Mononuclear Nickel and Copper Complexes with Indolecarboxamide Ligands: Synthesis, Properties and Electrochemistry. *Inorganica Chimica Acta*, *372*, 266 – 274 (**Invited Article**: Special Issue dedicated to the 70th Birthday of Professor SS Krishnamurthy).
36. A. P. Singh, K. K. Kaushik, A. K. Verma, Rajeev Gupta* **2011**. Synthesis, Structure and Anticancer Activity of Copper(II) Complexes of *N*-Benzyl-2-(diethylamino)acetamide and 2-(Diethylamino)-*N*-phenylethylacetamide. *Indian Journal of Chemistry*, *50A*, 474 – 483. (**Invited Article**: Special Issue on Bioinorganic Chemistry / International Year of Chemistry 2011).

Conference Organization/ Presentations (Last Five Years)

Participation as the Invited Speaker/Paper/Poster Presenter (Last Five Years):

(A) Invited Talks:

1. Molecularly Designed Architectures, Rajeev Gupta, Symposium on “Frontiers in Inorganics and Organometallics”, Department of Chemistry, I.I.T. Indore, Simrol, Indore, April 14 – 15, 2016.
2. Molecularly Designed Supramolecular Architectures: A Chemist’s Journey, Rajeev Gupta, 2nd National Seminar on “Recent Advances in Chemical Sciences - Supramolecular Developments”, Department of Chemistry, Khalsa College, Guru Nanak Dev University, Amritsar, April 2, 2016.

3. Molecularly Designed Architectures: Design Aspects, Recognition Studies and Catalysis, Rajeev Gupta, Symposium on "*Recent Advances in Chemical Sciences*", Department of Chemistry, Aligarh Muslim University, March 29 – 30, 2016.
4. Metal Complexes with Substrate–Specific Cavities: Recognition and Binding of Biologically Relevant Substrates, Rajeev Gupta, *Departmental Seminar*; Department of Inorganic Chemistry, Indian Association for the Cultivation of Science – Kolkata, March 21, 2016.
5. Inaugural Lecture, *KHRUSOS – The Chemical Society*, Department of Chemistry, Kirori Mal College, University of Delhi, March 16, 2016.
6. Supramolecular Chemistry: Fundamentals and Intriguing Examples, Rajeev Gupta, *Science Academies' Workshop on Modern Chemistry and Its Applications*, Department of Chemistry, Guru Nanak Dev University, Amritsar, March 3 – 5, 2016.
7. Molecularly Designed Architectures: Lessons Learnt from Supramolecular Chemistry, Rajeev Gupta, *Science Academies' Workshop on Modern Chemistry and Its Applications*, Department of Chemistry, Guru Nanak Dev University, Amritsar, March 3 – 5, 2016.
8. Coordination Complexes with Substrate–Specific Cavities: Recognition and Binding of Biologically Relevant Substrates, Rajeev Gupta, *Emerging Trends in Chemical Sciences*, Department of Chemistry, Gauhati University, November 5 – 6, 2015.
9. Designed Architectures: Supramolecular Chemistry & Catalysis, *Indian National Conference On Development In Inorganic Applications*, Rajeev Gupta, Department of Chemistry, Periyar University, Salem, October 15 – 16, 2015.
10. Molecularly Designed Architectures: Supramolecular Chemistry & Catalysis, *5th International Science Conference*, Rajeev Gupta, PGMIR – Dr. Ram Manohar Lohia Hospital, New Delhi, October 10 – 12, 2015.
11. Designer Materials: Supramolecular Chemistry and Catalysis, Rajeev Gupta, *Departmental Seminar*; Department of Chemistry, Himachal Pradesh University, Summer Hills, Shimla, March 21, 2015.
12. Metal Complexes with Substrate–Specific Cavities: Recognition and Binding of Biologically Relevant Substrates, Rajeev Gupta, *Departmental Seminar*; Department of Chemistry, Himachal Pradesh University, Summer Hills, Shimla, March 21, 2015.
13. Molecularly Designed Architectures: Supramolecular Chemistry and Catalysis, Rajeev Gupta, *4th National Conference on "Recent Advances in Chemical & Environmental Sciences"*, Arya PG Science College, Panipat (Kurukshetra University), February 27 – 28, 2015.
14. Designed Architectures: Supramolecular Ensembles and Functional Materials, Rajeev Gupta, *National Conference on Sustainable Chemistry: Frontiers and Challenges*, Brijlal Biyani Science College, Department of Chemistry, SGB Amravati University, Amravati, January 30 – 31, 2015.
15. Molecularly Designed Architectures, Rajeev Gupta, *Workshop on Emerging Advanced Materials and Applications*, National Physical Laboratory, CSIR, January 29th 2015.
16. Coordination Complexes with Substrate–Specific Cavities: Binding and Catalysis of Biologically Relevant Substrates, Rajeev Gupta, *51st Annual Convention of Chemists*, Indian Chemical Society, Department of Chemistry, Kurukshetra University, December 9 – 12, 2014.
17. Molecular Building Blocks: Designed Architectures and Functional Materials, Rajeev Gupta, *International Conference on Chemistry of Molecules and Materials (SCOMM-2014)*, Center for Research in Nanoscience and Nanotechnology, University of Calcutta, November 30 – December 2, 2014.
18. Hydroxide-Bridged Metal Complexes in Hydrogen Bond Surroundings: Substrate Binding and Catalysis, Rajeev Gupta, *41st International Conference on Coordination Chemistry (ICCC)*, Suntec Singapore Convention & Exhibition Center, Singapore, July 21 – 25, 2014.
19. Designed Architectures: Supramolecular Ensembles and Functional Materials, Rajeev Gupta, *National Conference on "Advanced Scientific Development in Chemical Sciences – (ASDCS-14)"*, Department of Chemistry, Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Sonipat), March 14, 2014.

20. Organic Transformations by Designed Inorganic Catalysts, Rajeev Gupta, 20th ISCB International Conference (ISCBC-2014) on Chemistry and Medicinal Plants in Translational Medicine for Healthcare, Department of Chemistry, University of Delhi, Delhi, India, March 1 – 4, 2014.
21. Hydroxide-bridged Metal Complexes in Hydrogen Bond Surroundings, IVth National Symposium on “Advances in Chemical Sciences”, Department of Chemistry, Guru Nanak Dev University, Amritsar, February 27 – 28, 2014.
22. Metallosupramolecular Chemistry: Designed Architectures and Functional Materials, Rajeev Gupta, “Department Day of Department of Chemical Sciences”, Indian Institute of Science Education and Research – Kolkata, December 11, 2013.
23. Supramolecular and Metallo-supramolecular Chemistry: Intriguing Examples, Rajeev Gupta, “National Symposium on Chemistry and Environment”, Deen Dayal Upadhyaya College, University of Delhi, Delhi, March 22 – 23, 2013.
24. Supramolecular Chemistry: Intriguing Examples, Rajeev Gupta, “Chemistry Meet”, St. Stephens College, University of Delhi, Delhi, February 15 – 16, 2013.
25. Playing with Coordination Complexes: Ordered Structures and Functional Materials, Rajeev Gupta, 15th Chemical Research Society of India (CRSI) National Symposium in Chemistry, Banaras Hindu University, Varanasi, February 1 – 3, 2013.
26. Metalloligands with Appended Groups: Extended Ensembles and Functional Materials, Rajeev Gupta, 49th Annual Convention of Chemists, Indian Chemical Society, NITTTR – Bhopal, December 12 – 15, 2012.
27. Inaugural Lecture, The Chemical Society – Hindu College, University of Delhi, August 30, 2012.
28. Coordination Complexes as the Building Blocks: Ordered Structures & Catalysis, Rajeev Gupta, National Symposium on “Chemistry in 21st Century”, Department of Chemistry, Guru Nanak Dev University, Amritsar, December 23 – 24, 2011.
29. Coordination Complexes as the Building Blocks: Ordered Structures, Crystal Engineering and Catalysis, Rajeev Gupta, 3rd Asian Conference on Coordination Chemistry (ACCC-3), Department of Chemistry, Indian Institute of Technology – Kanpur, IHC, New Delhi, October 17 – 20, 2011.
30. Old Coordination Chemistry Some New Facets: Ordered Structures, Crystal Engineering & Catalysis, Rajeev Gupta, National Seminar on “Inorganic Chemistry and the Celebration of 150th Birth Anniversary of Acharya Prafulla Chandra Ray”, Department of Chemistry, Jadavpur University, Kolkata, July 8 – 9, 2011.
31. Coordination Complexes as the Building Blocks: Ordered Structures, Crystal Engineering & Catalysis, Rajeev Gupta, International Conference on “Advances in Applied Chemical Sciences and Innovative Materials”, Department of Chemistry, Indian Institute of Technology – Delhi, New Delhi, August 10 – 12, 2011.
32. Molecules – to – Materials via Coordination Complexes as the Building-Blocks
Rajeev Gupta, National Symposium on “Emerging Trends in Chemical Sciences”, Department of Chemistry, Faculty of Science, Banaras Hindu University, Varanasi, February 19 – 20, 2011.

(B) Session Chairman:

1. Chaired a session during the Symposium on “Recent Advances in Chemical Sciences”, Department of Chemistry, Aligarh Muslim University, March 29 – 30, 2016.
2. Chaired a session during the Symposium on “Modern Trends in Inorganic Chemistry” (MTIC-XVI), Department of Chemistry, Jadavpur University, December 3 – 5, 2015.
3. Chaired a session during the 4th National Conference on “Recent Advances in Chemical & Environmental Sciences”, Arya PG Science College, Panipat (Kurukshetra University), February 27 – 28, 2015.
4. Chaired a session during the Symposium on “Modern Trends in Inorganic Chemistry” (MTIC-XV), Department of Chemistry, Indian Institute of Technology – Roorkee, December 13 – 16, 2013.
5. Chaired a session during the National Seminar on “Confluence of Supramolecular Chemistry and Nanoscience”, Department of Chemistry, Gujarat University, Ahmedabad, January 22 – 23, 2010.

(C) Presentations in Symposia / Seminars / Conferences:

- (1)** Metalloligand Appended with Carboxylic Acid Groups: Hydrogen Bonded Assemblies and Coordination Networks, S. Srivastava and Rajeev Gupta, National Symposium on “*Horizons of Light in Molecules, Materials, and Daily Life*”, Department of Chemistry, Dr. Hari Singh Gour University – Sagar, December 18 – 19, 2015.
- (2)** Metal-Ligand Architectures with Adjustable Cavities and Strategically Placed Hydrogen Bonds, S. Kumar, R. Kishan, G. Kumar, V. Kumar, and Rajeev Gupta, Symposium on “*Modern Trends in Inorganic Chemistry*” (**MTIC-XVI**), Department of Chemistry, Jadavpur University, December 3 – 5, 2015.
- (3)** Coordination Complexes with Substrate Specific Cavities: Substrate Binding And Catalytic Activities, D. Bansal, G. Kumar, and Rajeev Gupta, “*National Symposium in Chemistry (NSC-17)*” Chemical Research Society of India (CRSI), NCL–Pune, India, February 6 – 8, 2015.
- (4)** Cobalt Chemistry with Electronically Versatile Macrocyclic Scaffold, S. Kumar, S. Yadav, S. K. Sharma, and Rajeev Gupta, “*National Symposium in Chemistry (NSC-17)*” Chemical Research Society of India (CRSI), NCL–Pune, India, February 6 – 8, 2015.
- (5)** Metalloligands with Assorted Arylcarboxylic Acid Groups: Impact on Material Design, S. Pandey, S. Srivastava, G. Kumar, Rajeev Gupta, *JSPS-DST Asian Academic Seminar and School 2015*, Jointly organized by the IACS – Kolkata and IISER – Kolkata, March 6 – 10, 2015.
- (6)** Role of Preorganized Rigid and Post-functionalized Flexible Metalloligands Appended with Carboxylic Acid Groups in Material Design, S. Pandey, S. Srivastava, G. Kumar, Rajeev Gupta, *International Conference on Chemistry of Molecules and Materials (SCOMM-2014)*, Center for Research in Nanoscience and Nanotechnology, University of Calcutta, November 30 – December 2, 2014.
- (7)** Coordination Complexes as the Building Blocks: Discrete Complexes Versus Networks and Their Catalytic Applications, S. Srivastava, Rajeev Gupta, *International Conference on Chemistry of Molecules and Materials (SCOMM-2014)*, Center for Research in Nanoscience and Nanotechnology, University of Calcutta, November 30 – December 2, 2014.
- (8)** Hydrogen-Bonded and Coordination-Driven Frameworks Using Molecular Building Blocks, G. Kumar, S. Pandey, S. Srivastava, G. Kumar, Rajeev Gupta, IVth National Symposium on “*Advances in Chemical Sciences*”, Department of Chemistry, Guru Nanak Dev University, Amritsar, February 27 – 28, 2014.
- (9)** Coordination Chemistry With Pyrrole-Amide and Indole-Amide Ligands, S. Yadav, S. Kumar, Rajeev Gupta, IVth National Symposium on “*Advances in Chemical Sciences*”, Department of Chemistry, Guru Nanak Dev University, Amritsar, February 27 – 28, 2014.
- (10)** Metalloligands Appended with Carboxylic Acid Groups: Extended Networks and Functional Materials, Sumit Srivastava, Saurabh Pandey, Gulshan Kumar, Girijesh Kumar and Rajeev Gupta, Symposium on “*Modern Trends in Inorganic Chemistry*” (**MTIC-XV**), Department of Chemistry, Indian Institute of Technology – Roorkee, December 13 – 16, 2013.
- (11)** Hydroxide-bridged Dinuclear Metal Complexes in Hydrogen Bond Surroundings: Structural Analysis and Catalysis, Deepak Bansal, Rajeev Gupta, Symposium on “*Modern Trends in Inorganic Chemistry*” (**MTIC-XV**), Department of Chemistry, Indian Institute of Technology – Roorkee, December 13 – 16, 2013.
- (12)** Metalloligands Appended with Carboxylic Acid Groups: Extended Ensembles and Functional Materials, G. Kumar, S. Srivastava, Rajeev Gupta, National Seminar on “*Chemistry in Interdisciplinary Applications*”, Hansraj College, University of Delhi, Delhi, India, March 19, 2013.
- (13)** Chalcone as Antihyperglycemic and Antidyslipidemic Agents, Poonam Shukla, Ram Pratap, Rajeev Gupta, National Seminar on “*Chemistry in Interdisciplinary Applications*”, Hansraj College, University of Delhi, Delhi, India, March 19, 2013.
- (14)** Developing Heterogeneous Catalysts for Important Organic Transformations, G. Kumar, Rajeev Gupta, Conference on “*Emerging Trends in Development of Drugs and Devices*”, Department of Chemistry, University

of Delhi, Delhi, India, January 21 – 23, 2013.

- (15) Molecules to Materials via Coordination Complexes as the Building-Blocks, Rajeev Gupta, 40th International Conference on Coordination Chemistry (ICCC), Valencia, Spain, September 9 – 13, 2012.
- (16) Cobalt Complexes based Building Blocks Appended with Phenol and Carboxylate Groups: H-bonded Assemblies and Extended Networks, G. Kumar, A. Ali, A. P. Singh, H. Aggarwal, Rajeev Gupta, Symposium on “Modern Trends in Inorganic Chemistry” (MTIC-XIV), School of Chemistry, University of Hyderabad, December 10 – 13, 2011.
- (17) Coordination Complexes as Building Blocks: An Approach to Control Dimensionality and Topology, S. Srivastava, G. Kumar, A. P. Singh, Rajeev Gupta, Symposium on “Modern Trends in Inorganic Chemistry” (MTIC-XIV), School of Chemistry, University of Hyderabad, December 10 – 13, 2011.
- (18) Coordination Complexes as the Building Blocks: Discrete Heterobimetallic Complexes, D. Bansal, A. Ali, A. P. Singh, Rajeev Gupta, 3rd Asian Conference on Coordination Chemistry (ACCC-3), Department of Chemistry, Indian Institute of Technology – Kanpur, IHC, New Delhi, October 17 – 20, 2011.
- (19) Coordination Complexes as the Building Blocks: Extended Networks and Hydrogen – bonded Assemblies, A. Ali, G. Kumar, H. Aggarwal, Rajeev Gupta, 3rd Asian Conference on Coordination Chemistry (ACCC-3), Department of Chemistry, Indian Institute of Technology – Kanpur, IHC, New Delhi, October 17 – 20, 2011.

Research Projects (Major Grants/Research Collaboration)

(1) Metal Complexes with Secondary Coordination Sphere: Recognition and Binding of Analytes and Activation of Substrates

Funded by the Council of Scientific & Industrial Research (CSIR)

Project Duration: June 2016 – May 2019

Reference: 01(2841)/16/EMR-II

Budget: Rs. 6,00,000

(2) Coordination Complexes as the Building Blocks: Supramolecular Organization and Catalysis

Funded by the Department of Science & Technology (DST)

Project Duration: April 2012 – December 2015 (Completed)

Reference: SR/S1/IC-43/2011

Budget: Rs. 49,62,000

(3) Studies on Coordination Complexes of Macrocyclic Ligands and their Open-Chain Analogues: Coordination and Bioinorganic Chemistry Perspectives

Funded by the Council of Scientific & Industrial Research (CSIR)

Project Duration: February 2012 – February 2015 (Completed)

Reference: 01(2515)/11/EMR-II

Budget: Rs. 23,92,000

(4) Development of indicators for anthropogenic, environmental and chemical stress on urban ecosystem: A study of aquatic and terrestrial ecosystems of Yamuna river catchment from National Capital Region (Delhi)

Funded by the University of Delhi under the DST-PURSE Program

Project Duration: January 2010 – December 2012 (Completed)

Reference: DU-DST-PURSE

Budget: Rs. 2,00,00,000 (Joint project between Botany, Chemistry, Geology, Microbiology, Physics & Zoology)

(5) Development of Coordination Complexes as Building Blocks to Generate Novel Heterometallic Complexes

Funded by the Department of Science & Technology (DST)

Project Duration: September 2008 – August 2011 (Completed)

Reference: SR/S1/IC – 04/2008

Budget: Rs. 37,07,000

**(6) Coordination and Oxidation Chemistry with Synthetically Designed Mono-functionalized Macrocyclic Ligands
FAST-TRACK Project for Young Scientists**

Funded by the Department of Science & Technology (DST)

Project Duration: December 2004 – December 2007 (Completed)

Reference: SR/FTP/CS-27/2004

Budget: Rs. 11,50,000

(7) Synthesis and Characterization of Iron Complexes with Synthetically Designed Nitrogen Donor Ligands: Emphasis to the Development of Biomimetic Oxidation Catalysts

Funded by the University Grant Commission (UGC)

Project Duration: May 2006 – April 2009 (Completed)

Reference: F.No.31-103/2005(SR)

Budget: Rs. 7,91,600

Awards and Distinctions

1. **Bronze Medal (2016)** from the Chemical Research Society of India for Contribution to Research in Chemistry
2. **Membership Award** from the American Chemical Society (ACS) in Recognition of Engagement with ACS's Mission of Service to the Global Community of Chemists (2015 – 2018)
3. Member – Young Scientist Expert Committee, Science and Engineering Research Board (SERB), Govt. of India (2015 – 2018)
4. **Indo – US Research Fellowship (2009)** Awarded by the Department of Science & Technology (DST) and Indo – US Science & Technology Forum
5. **Young Scientist Project Award (2004)** by the Department of Science & Technology (DST)
6. **Leelavati N. Modi Scholarship (1992)** Awarded by the Christ Church College, Kanpur University, Kanpur
7. CSIR – JRF – NET (December, 1994), JRF (1995 – 1998), SRF (1998 – 1999)

Association With Professional Bodies

1. **Reviewer:** Serving as the reviewer for the various journals from the following scientific societies:
 - (i) Nature Publishing Group
 - (ii) Science
 - (iii) Royal Society of Chemistry
 - (iv) American Chemical Society
 - (v) Wiley – VCH Society
 - (vi) Taylor and Francis
 - (vii) Elsevier
 - (viii) Bentham Sciences
 - (ix) Indian Journal of Chemistry
 - (x) Journal of Chemical Sciences
2. **Memberships:** (1) Life Member of Chemical Research Society of India (CRSI)
(2) Member of American Chemical Society (ACS) from 2000 – 2003 and 2015 – 2018 (awarded by the American Chemical Society)
(3) e-Member of Royal Society of Chemistry (RSC)

Other Activities