

Curriculum Vitae of Dr. V. K. Gupta



Name	: Dr. Vinod Kumar Gupta FWIF, FNASc, FRSC
Designation	: Professor of Chemistry
Father's Name	: (Late) Sri. Jeewan Lal Gupta
Date of Birth	: 17 th January 1953
Mailing Address	: Professor Vinod Kumar Gupta FWIF, FNASc, FRSC Distinguished Professor King Abdulaziz University, Jeddah, Saudi Arabia Public URL: http://scholar.google.com/citations?user=0mc0D7wAAAAJ ResearcherID: http://www.researcherid.com/rid/F-6041-2011 Highlycited Researcher: http://www.webometrics.info/en/node/58
Academic Qualification	: B. Sc. (1 st . Div.) 1972, Meerut University M.Sc. (1 st Div.) 1975, University of Roorkee Ph. D. 1979, University of Roorkee Post Doctoral Fellow (CSIR), Univ. of Roorkee, 1979-81.
Employment Record	: Pool Officer (CSIR), Univ. of Roorkee, 1981-83. Lecturer, Univ. of Roorkee, 1983-94 Marie Curie Fellow of European Commission, Univ. of Regensburg, Germany Feb.1993- July 93. Reader/ Assistant Professor, Univ. of Roorkee, 1994-98. Associate Professor, Univ. of Roorkee, 1998-2001 Professor. IIT Roorkee, Roorkee, Since 2001 Chair Professor at Chemistry Department, King Fahad University of Petroleum and Minerals Dhahran, Saudi Arabia. Vice – Chancellor, Dr. R M L Avadh University Faizabad, UP (09-05-2013-09-09-2013). Visiting Professor, King Saud University, Riyadh, Saudi Arabia Distinguished Professor, University of Johannesburg, South Africa
Teaching Experience	: Thirty-Four years teaching experience (Physical, Analytical and General Chemistry) of under-graduate Engineering and Post-graduate classes, Department of Chemistry, Indian Institute of Technology Roorkee (formerly University of Roorkee)
Field of Research	: 1. Nanotechnology for Water 2. Environmental Engineering 3. Electro-analytical Chemistry 4. Chemical sensors 5. Waste Management
Research Experience	: Thirty-four years research experience (a) Ph.D. Thesis supervised – 43 (b) M. Phil Thesis supervised – 10 (c) M.Sc. Dissertation supervised – 37

PUBLICATIONS:

Books:

1. Nano Chromatography and Capillary Electrophoresis: Pharmaceutical and Environmental Analyses, John Wiley & Sons, Inc. (2009).
2. Environmental Water: Advances in Treatment, Remediation and Recycling, Elsevier, UK (2012).
3. Nanomaterial/Polymer Membranes. From Synthesis, Characterization to Applications, Elsevier, (2016).
4. Lanthanide Series Determination by Various Analytical Methods, Elsevier, (2016).

Books Chapters: 13 Invited chapters in books and encyclopedias

Research Papers/Reviews: 640 Papers in International Peer Reviewed Journals with high Impact Factors (Indian Journals - 28 Foreign Journals – 605); 37 reviews in highly cited Journals (Citations: More than 77000 with *h* index = 164).

Papers presented at various National and International Conferences: 50

Academic Visits Abroad:

Australia, Canada, Hungary, Italy, Japan, Netherlands, New Zealand, Singapore, Thailand, U.K., U.S.A., Germany, Hongkong, South Korea, France, Belgium, Saudi Arabia, Switzerland, Sweden, Iran, South Africa, China, Russia.

Ongoing Major Sponsored Research Projects

1. Modification, Characterization and application of naturally occurring biomaterials for the removal of toxic contaminants from industrial wastewater, DST, Approved from April 2014 for 3 years with outlay of more them 30 Lac.

Major Sponsored Research Projects Completed During the recent past:

1. Studies on some highly selective receptors and their use in chemical sensors for ion Recognition (DST-DAAD Project Based Personnel Exchange Programme (PPP)-2002-2005).
2. Removal of toxic substances from wastewater using inexpensive alternatives to carbon, (CSIR, New Delhi, Sep.2002-2005).
3. Development of low-cost adsorbents for the removal of toxic metal ions from water using algal biomass (DST, GOI, Oct. 2006- 2009 Project cost Rs. 14.50 lacs).
4. Development of effective adsorbents from waste rubber tires for waste water treatment, DST, Approved from August 2012 for 3 years with outlay of more them 23 L

National and International Collaboration:

1. National Institute of Hydrology, Roorkee, India.
2. Central Building Research Institute, Roorkee, India.
3. Industrial Toxicology Research Centre, Lucknow, India.
4. Jiwaji University, Gwalior, India.
5. Chemnitz Technical University, Chemnitz, Germany.
6. Freie University of Berlin, Germany.
7. Korea National University of Education, Seoul, Soth Korea.
8. University of Regensburg, Regensburg, Germany.
9. University of Belgrade, Bor, Serbia, Yugoslavia.
10. King Fahd University of Petroleum and Minerals, Dhahran-31261, Saudi Arabia
11. University of Leuven, Leuven, Belgium.

Recognitions:

1. Highly Cited Researcher in Chemistry, Ecology and Environmental Engineering as per Thomson ISI.
2. Offered KFUPM Chair Professorship by King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, 2009.
3. Fellow of World Innovation Foundation (F.W.I.F.) (2004).
4. Fellow of National Academy of Sciences (FNASC) (2008).
5. Fellow of Royal Society of Chemistry, London
6. India Citatation Laureate Award in Chemistry in 2019

7. Editor of following International Journals:

Editor- Environmental Science and Pollution Research (2011-2013)
Editor- International Journal of Environmental Science and Technology
Senior Editor- Insciences Journal - Sensors
Editor -International Journal of Industrial Chemistry
Editor - Frontiers in Analytical Chemistry
Editor-Analytical Chemistry Letters (2014 onwards---)
Editor- International Journal of Electrochemical Science

8. Membership of Editorial Boards of the

Oxidation Communications (1982- onwards)
Sensors (2000- onwards)
Sensor Letters (2002 – onwards)
Talanta (2005 - 2007).
Indian Journal of Chemical Technology (2005 onwards)
International Journal of Electrochemical Science (2006 onwards)
Recent Patents on Engineering (2007-onwards)
J. Hazardous Materials (2007-2012)
International Journal of Chemical Engineering (2008 -onwards)
International Journal of BioSciences and Technology (2008- onwards)
The Open Waste Management Journal (2008- onwards)
Analytical & Bioanalytical Electrochemistry (2009-onwards)
J. Coll. Interface Science (2010-2012)
Advanced Materials Letters (2010 onwards)
Desalination and Wastewater Treatment (2010 onwards)
Toxicological & Environmental Chemistry (2010 onwards)
Chemical Sensors (2010 onwards)
J. Sensor Technology.
European Journal of Chemistry
Colloids and Interface Science Communications (2014 Onwards)

9. Delivered Lectures at:

University of Western Australia, Perth, (Australia)
Yokohama National University, Yokohama, (Japan)
Kyushu University, Fukuoka, (Japan)
Leuven University, Leuven, Belgium
University of Twente, Enschede, Netherlands
Technical University of Chemnitz, Chemnitz, Germany
Free University, Brussels, Belgium

University of Texas at San Antonio, USA
National University of Singapore (NUS)
KFUPM, Dhahran, Saudi Arabia

10. Chaired Sessions in 13 International Conferences:

Hungary (1982), New Zealand (1984), Germany (1988, 2005), Canada (1992), South Korea (1996), Switzerland (2000), Japan (2001), France (2003), USA (2005), Singapore (2006, 2008), Iran (2012).

11. Membership of the Research Degree Committees / Board of Studies for the following National level Institutions:

HNB Garhwal University, Srinagar (UA) (2003-onwards)
Rajeev Gandhi Technical University Bhopal (M.P.) (2006-onwards)
Mizoram University, Aizawl (2006-onwards)
National Institute of Technology, Bhopal (M.P.) (2002-onwards)
National Institute of Technology, Kurukshetra (Haryana) (2006-onwards)
C R University of Science & Technology, Murthal, Haryana
IIT, BHU, Varansi; GND University, Amritsar; NIT, Jalandhar (Punjab)
HBTI, Kanpur

12. Membership of following Advisory Boards/ Committees:

International Symposium on Sensors Science, held at Paris (France) 16 - 20 June 2003.
International Symposium on Sensors Science, held in China, 16 - 20 June 2004.
Department of Science and Technology, Govt. of India's to monitor a center at Kumaun University, Nainital (UA) 2002- onwards
Third IEEE International Conference on Systems, Signals & Devices (SSD'05), March 21-24, 2005, Sousse – Tunisia.
American Biographic Institute (2003-onwards).
Indira Gandhi National Open University for Curriculum development
International Symposium on Colloids and Materials held at Amsterdam, The Netherlands, May, 2011.

13. Invited to Chair a session/ speaker in the following International Events:

28th Annual International Symposium on Environmental Analytical Chemistry held in Geneva, Switzerland March 1-5, 1998.
5th East Asian conference on Chemical Sensors (EACCS' 01) held at Huis Ten Bosch, Nagasaki, Japan during 4-7 Dec. 2001.
9th International Meeting on Chemical Sensors, Boston, USA, 7-11 July 2002.
National Seminar on Recent Advances in Analytical Chemistry, to be held at J.N. Vyas University, Jodhpur, India, Nov.- Dec. 2004.
41st Annual Convention of Chemist 2004, Delhi, Dec. 2004
6th East Asian Conference on Chemical Sensors held at Guilin, China (November, 2005).
13th International Conference on Flow Injection Analysis and Related Techniques (ICFIA 2005), Las Vegas, Nevada USA, April, 2005.
4th ISE Spring Meeting 2006 held in Singapore during 17-21 April 2006.
Invited Speaker at the 1st Regional Electrochemistry Meeting of South-East Asia 2008 held at National University of Singapore, Singapore, during 5-7th August 2008.

14. Visiting Professor at Department of Environmental Chemistry, Jiwaji University, Gawalior. India.

15. Chair Professor, Department of Chemistry, KFUPM Dhahran, Saudi Arabia

Awards:

- KHOSHLA RESEARCH PRIZE (Commendation Certificate) 1991.
- European Commission Post Doctoral Fellowship awarded by European Commission and DST, Govt. of India in 1992 - 1993 to work at Institute of Organic Chemistry, University of Regensburg (Germany).
- First KHOSLA RESEARCH AWARD and GOLD MEDAL, 1996.
- SECOND KHOSLA RESEARCH AWARD and SILVER MEDAL, 1996
- DAAD Visiting Professorship for two months during 2002-2003.
- Star Performer at IIT, Roorkee in the Session 2002-2003; 2003-2004.
- Fellow of the World Innovation Foundation (2004).
- India Citation Laureate Award (2004).
- Star Performer at IIT, Roorkee in the Session 2004 - 2005.
- Star Performer at IIT, Roorkee in the Session 2005 - 2006.
- Star Performer at IIT, Roorkee in the Session 2006 - 2007.
- Fellow of the National Academy of Sciences, (FNASc) 2008.

Membership of Scientific Societies:

1. American Chemical Society
2. Life Member Indian National Science Congress Association.
3. Elected Member of Chemistry Sectional Committee for 89th Session of ISCA
4. Asian Council of Science Editors
5. Life Member Indian Society for Electro analytical Chemistry (ISEAC)
6. Member International Society of Electrochemistry.
7. Bioelectrochemical Society

Organization of National/ International Conferences:

1. Member Organizing Committee in the National Symposium on Radiation and Photochemistry, to be held at University of Roorkee, Feb.21-23, 2001.
2. Member National Advisory Committee of the National Symposium on Advanced Instrumental Methods of Analysis held during 7-8 June 2002 at Dehradun (UA).
3. Organizing Secretary 22nd Annual Conference of Indian Council of Chemists, held at Roorkee, India, 17-19 Oct. 2003.
4. Chairman for Symposium on "Role of Chemical Sensors in Environmental Monitoring in Asia" in the 6th East Asian Conference on Chemical Sensors held at Guilin, China during November 2005.
5. 6th East Asian Conference on Chemical Sensors held at Guilin, China (November, 2005).
6. Member Advisory Committee of National Conference on Greener Aspects of Electrochemistry held at Jiwaji University, Gwalior, during 7-9 Dec. 2007.
7. Member International Advisory Committee of the "Regional Electrochemistry Meeting of South-East Asia (REMSEA)" to be held at NUS, Singapore during 5-7 Aug. 2008
8. Member International Advisory Committee of The sixth International Multi-Conference on Systems, Signals and Devices SSD'09, 23-26 March 2009, Jerba, Tunisia
9. Member International Scientific Committee for Colloids & Materials 2011, to be held during 8-11 May 2011, Amsterdam, The Netherlands.

Chronological statement of Administrative Experience

The duties and responsibilities of each of these positions were discharged earning recognition and credibility.

- Distinguished Visiting Professor, University of Johannesburg, Johannesburg, South Africa wef Feb.2015
- Chair Professor at KFUPM Dhahran, Saudi Arabia
- Visiting Professor, KSU Riyadh, Saudi Arabia
- Member University Court, Central University Haryana wef 27th Jan 2014.
- Vice Chancellor, Dr. R M L Avadh University Faizabad, UP (09-05-2013 09-09-13)
- Head of the Chemistry Department (01-01-2011 -08-05-2013)
- Member, Executive Committee of Senate (1.1.2006-31.12.2008 and 01-01-2011 onwards)
- Professor in-charge Security (01-01-2009 till 25 Sep. 2009)
- Dean of Students' Welfare (1.1.2006- 31.12.2008)
- Assoc. Dean of Students' Welfare (01.01.2003 – 31.04.2006)
- Chairman, Discipline Committee of IIT Roorkee (01.01.2003 to 31.04.2006)
- Chairman, Coordinating Committee of Bhawans (CCB) (01.01.2003 to 31.04.2006)
- Member, Board of Post Graduate Studies and Research (2003 – 2006)
- Vice Chairman JEE-P 2003 (Entrance for Uttarakhand Polytechnics)
- Staff Advisor, Yogic Exercises (one year) and Dy. Chief Advisor, Institute Educational Cinema Club (2002 – 2005)
- Chief Warden Govind Bhawan (1.6.95 to 31.3.98) and Azad Bhawan (13.6.2000 -31.12.2002) and Warden of few Bhawans.
- Elected Member of University of Roorkee Syndicate (11.2.2000 -20.9.2001) and first BoG of IIT Roorkee (21.09. 2001 -March 2002).
- Dy. Officer-in-Charge University of Roorkee Convocation-2001
- Officer In charge, University Vehicle Section (1998 to 1999), Coordinator Transportation REE-1994 & 1995, CPMT (1998 & 1999)
- Member, University of Roorkee Senate (1995 to 1998).

Publications

Books

1. Nano Chromatography and Capillary Electrophoresis: Pharmaceutical and Environmental Analyses, John Wiley & Sons, Inc. (2009).
2. Environmental Water: Advances in Treatment, Remediation and Recycling, Elsevier (2012).
3. Nanomaterial/Polymer Membranes. From Synthesis, Characterization to Applications, Elsevier, (2016 under publication).
4. Lanthanide Series Determination by Various Analytical Methods, Elsevier, (2016).

Invited chapters:

1. Synthetic Dyes for the '*Handbook of TLC*' Marcel and Dekker, U.S.A. 1990.
2. Synthetic Dyes for the '*Handbook of TLC*' Marcel and Dekker, U.S.A. 1996.
3. Adsorbents for Water Treatment: Low Cost Alternatives to Carbon for the '*Encyclopedia of Surface and Colloid Science*' edited by Arthur Hubbard for Marcel Dekker, U.S.A., volume 1, pages 136-166, 2002.
4. Synthetic Dyes for the '*Handbook of TLC*' Marcel and Dekker, U.S.A. 2003.
5. Adsorbents for Water Treatment: Development of Low Cost Alternatives to Carbon for the updated '*Encyclopedia of Surface and Colloid science*' edited by Somasundaran for Marcel Dekker, Pages 1-34, 2003.
6. Advances in Chiral Pollutants Analysis by Capillary Electrophoresis for '*Encyclopedia of Chromatography*' published by Marcel Dekker, 2004 pages 92-100.
7. Adsorbents for Water Treatment: Development of Low Cost Alternatives to Carbon for '*Encyclopedia of Surface and Colloid Science*', Second Edition; Taylor & Francis: New York, 2006; 1, pp. 149 – 184.
8. Ion-Selective Electrodes for Sensing of Metal Cations for the '*Encyclopedia of Sensors*' Volume 5, edited by Craig A. Grimes and Beth Dickey, published by American Scientific Publishers (2006) pp.133-150.
9. Metal Ions Speciation in the Environment: Distribution, Toxicities and Analyses for the book Concepts and Applications in Environmental Geochemistry, Developments in Environmental Science, Volume 5: edited by Dibyendu Sarkar, Rupali Datta, Robyn Hannigan, published by Elsevier (2007), pages 33-56.
10. Electrochemical Sensors for Liquid Environment, for the book "Chemical Sensors" edited by Prof. Ghenadii Korotcenkov and published by Momentum Press (USA) (2011) Vol. 5 pages 125-169.
11. Syntheses of Carbon Nanotube-Metal Oxides Composites; Adsorption and Photo-degradation, for the book "Carbon Nanotubes - From Research to Applications" Edited by: Stefano Bianco; Published by Publisher: InTech; ISBN 978-953-307-500-6 (2011) pages 295-312.

12. Adsorption on carbon Nanotubes, For the book “Solvent Extraction, Ion-exchange and adsorption” Edited by: Dr. Naushad Ghauri: published by, Nova Science Publishers, Inc., USA. (2012).
13. Covalent and Non-Covalent Functionalization of Carbon Nanotubes. Advanced Carbon Materials and Technology (2013): 317. John Wiley & Sons.
14. Liquid-Liquid Separation through Polymeric Membranes; in Transport Properties of Polymeric Membranes (2017) Elsevier

Reviews:

1. V. K. Gupta, I. Ali, and H.Y. Aboul-Enein, Chiral resolution of some environmental pollutants by capillary electrophoresis, **Electrophoresis**, 24(9) 1360-1374-(2003).
2. V. K. Gupta, I. Ali, and H.Y. Aboul-Enein, Chirality: A challenge for the Environmental Scientists, **Current Science**, 84(2), 152-156 (2003).
3. V. K. Gupta, Potentiometric sensors for heavy metals- an overview, **Chimia**, 59,209-217(2005).
4. I. Ali, V.K. Gupta and H.Y. Aboul-Enein, Metal Ion Speciation and Capillary Electrophoresis: Application in the New Millennium, **Electrophoresis**, 26(21) 3988-4002 (2005).
5. I. Ali, H.Y. Aboul-Enein, V.K. Gupta and Sam F.Y. Li, Pharmaceuticals analysis by capillary electrophoresis at nanolevel detection **J. Cap. Electrophoresis and Microchip Tech.**, 009(5/6), 85 - 99 (2006).
6. I. Ali and V. K. Gupta, Advances in Water Treatment by Adsorption Technology, **Nature Protocols**, 1(6), 2661 - 2667 (2007).
7. I. Ali, V. K. Gupta, H. Y. Aboul-Enein, P. Singh, B. Sharma, Role of racemization in optically active drugs development, **Chirality**, 19(6), 453-463 (2007).
8. V. K. Gupta, I. Ali, H. Y. Aboul-Enein, Metal Ions Speciation in the Environment: Distribution, Toxicities and Analyses, **Developments in Environmental Science**, 5 (2007) 33-56.
9. I. Ali, V. K. Gupta and H. Y. Aboul-Enein, Capillary Electrophoresis at Nano Level Detection : Applications in pharmaceutical analysis, **Egypt. J. Chem., Special Issue (M.Sidky)**, 1-29 (2007).
10. I. Ali, V. K. Gupta, H. Y. Aboul-Enein, Chiral Resoution of Racemic Environmental Pollutants by Capiary Electrophoresis, **Critical Reviews in Analytical Chemistry**, 38, 132-146 (2008).
11. Imran Ali, V.K. Gupta, Hassan Y. Abul-Enein and Afzal Hussain, Hyphenation in Sample Preparation: Advancement from Micro to Nano World, **J. Sep. Sci.** 31, 2040-2053 (2008).
12. Imran Ali, Hassan Y. Aboul-Enein and V.K. Gupta, Microchip-Based Nano Chromatography and Nano Capillary Electrophoresis in Genomics and Proteomics, **Chromatographia**, 69, S13-S22 (2009).
13. V. K. Gupta and Suhas, Application of low cost adsorbents for dye removal- A review, **J. Environmental Management**, 90(2009) 2313-2342.
14. V.K. Gupta, P.J.M. Carrott, M.M.L. Ribeiro Carrott, Suhas, Low cost adsorbents: Growing approach to wastewater treatment – A review, **Crit. Rev. Environ. Sci.Technol.**, 39, 783–842 (2009).
15. V.K. Gupta, Potentiometric sensors for inorganic anions based on neutral carriers - a review, **The Arabian J. Sci. Engg. A-Science**,35(2A), 7-25 (2010).
16. V. K. Gupta, R. Jain, Shilpi Agarwal, Voltammetric Techniques for the Assay of Pharmaceuticals-a Review, **Analytical Biochemistry** 408 (2011) 179-196.
17. V. K. Gupta, A. Nayak, Shilpi Agarwal, Barkha Singhal, Recent Advances on Potentimetric Membrane Sensors for Pharmaceutical Analysis, **Combinatorial Chemistry & High Throughput Screening**, 14(4)(2011) 284-302.
18. V. K. Gupta, M. R. Ganjali, P. Norouzi, H. Khani, A. Nayak, and Shilpi Agarwal, Electrochemical Analysis of some Toxic Metals and Drugs by Ion Selective Electrodes, **Critical Reviews in Analytical Chemistry**, 41(2011)282–313.
19. M. Ahmaruzzaman,V. K. Gupta, Rice husk and its ash as low-cost adsorbents in water and wastewater treatment, **Ind. Eng. Chem. Res.**, 50 (2011) 13589–13613.
20. V. K. Gupta, Arunima Nayak, Shilpi Agarwal, Rajendra Dobhal, D.P. Uniyal, Prashant Singh, Bhavtosh Sharma, Shweta Tyagi, Rakesh Singh, Arsenic speciation analysis and remediation techniques in drinking water, **Desalination and Water Treatment**, 40(2012)231-243.
21. V. K. Gupta, A.Nayak, Shilpi Agarwal, R. Dobhal, D.P. Uniyal, P. Singh, B. Sharma, S. Tyagi, R. Singh, Advanced and hyphenated techniques for nano level analysis of iron in water, **Crit. Rev. Anal. Chem.**, 42(03) (2012) 245 - 256.

22. V. K. Gupta, I. Ali, T. A. Saleh, A. Nayak, S. Agarwal, Chemical Treatment Technologies for Wastewater Recycling –a Review, **RSC Advances** (2) (2012)6380 – 6388.
23. V. K. Gupta, Arunima Nayak, Shilpi Agarwal, Rajendra Dobhal, D.P. Uniyal, Prashant Singh, Bhavtosh Sharma, Shweta Tyagi, Rakesh Singh, Toxic metal ions in water and their prevalence in Uttarakhand, India, **Water Science and Technology: Water Supply**, 12(6) (2012)773-782.
24. M. Ahmaruzzaman, V. K. Gupta, Application of coal fly ash in air quality management, **Ind. Eng. Chem. Res.**, 51, (2012) 15299–15314.
25. V. K. Gupta, T. A. Saleh, Sorption of Pollutants by Porous Carbon, Carbon Nanotubes and fullerene: an overview, **Env. Sci. Pollut. Res.**, 20 (2013) 2828-2843
26. V. K. Gupta, R. Kumar, A. Nayak, T. A. Saleh, M.A. Barakat, Adsorptive removal of dyes from aqueous solutions onto carbon nanotubes: A review, **Adv. Colloid Interface Sci.**, 193-194 (2013) 24-34.
27. T. A. Saleh, V. K. Gupta, Processing Methods and Characteristics of Porous Carbons Derived from Waste Rubber Tires: A Review, **Adv. Colloid Interface Sci.**, 211 (2014) 93-101.
28. V. K. Gupta, A. Nayak, B. Bhushan, S. Agarwal, A critical analysis on the efficiency of activated carbons from low cost precursors for heavy metals remediation, **Crit. Rev. Environ. Sci.Technol.** 45 (2015) 613–668.
29. V. K. Gupta, S. Khamparia, I. Tyagi, D. Jaspal, A. Malviya, Decolorization of mixture of dyes: A critical review, **Global J. Environ. Sci. Manage.**, 1(2015)71-94.
30. V. K. Gupta, H. Sadegh, M. Yari, R. S. Ghoshekandi, B. Maazinejad, M. Chahardori, Removal of ammonium ions from wastewater A short review in development of efficient methods, **Global J. Environ. Sci. Manage.**, 1(2) (2015) 149-158.
31. V. K. Gupta, A. Nayak, S. Agarwal, Bioadsorbents for remediation of heavy metals: Current status and their future prospects, **Environmental Engineering Research**, 20(1) (2015)001-018.
32. K. Zare, V. K. Gupta, O. Moradi, A. S. H. Makhlof, M. Sillanpa, M. N. Nadagouda, H. Sadegh, R. Shahryari-ghoshekandi, A. Pal, Z.Wang, I. Tyagi, M.Kazemi, A comparative study on the basis of adsorption capacity between CNTs and activated carbon as adsorbents for removal of noxious synthetic dyes: a review, **J Nanostruct Chem**, 5(2015)227–236.
33. V.K. Gupta, I. Tyagi, H. Sadegh, R. Shahryari-Ghoshekandi, A. S. Hamdy Makhlof, B. Maazinejad, Nanoparticles as adsorbent; a positive approach for removal of noxious metal ions: A review, **Science, Technology and Development** 34 (2015)195-214.
34. V. K. Gupta, I. Tyagi, S. Agarwal, O. Moradi, H. Sadegh, R. Shahryarighoshekandi, A. S. H. Makhlof, M. Goodarzi, A. Garshasbi, Study on the removal of heavy metal ions from industry waste by carbon nanotubes: effect of the surface modification-A review, **Crit. Rev. Environ. Sci.Technol.**, 46 (02), (2016) 93 – 120.
35. V. K. Gupta, Suhas, I. Tyagi, S. Agarwal, R. Singh, M. Chaudhary, A. Harit, S. Kushwaha, Column operation studies for the removal of dyes and phenols using a low cost adsorbent, **Global J. Environ. Sci. Manage.**, 2(1) (2016)1-10.
36. Suhas, V.K. Gupta, P.J.M. Carrott, R.D. Singh, M. Chaudhary, Sarita Kushwaha, Cellulose: A review as natural, modified and activated carbon adsorbent, **Bioresource Technology**, 216(2016) 1066-1076.
37. Hamidreza Sadegh; Gomaa A. M. Ali, Vinod Kumar Gupta, Abdel Salam Hamdy Makhlof, Ramin Shahryari-ghoshekandi; Mallikarjuna N. Nadagouda, Mika Sillanpää, Elżbieta Megiel, The Role of Nanomaterials as Effective Adsorbents and Their Applications in Wastewater Treatment: A Review, **J Nanostr. Chem.** 7 (1), 1-14 (2017).
38. Irina Burakova, Alexander Burakov; Evgeny Galunin; Anastassia Kucherova; Alexey Tkachev; Shilpi Agarwal; Vinod Kumar Gupta, Adsorption of heavy metals on conventional and nanostructured materials for wastewater treatment purposes: A review; **Ecotoxicology and Environmental Safety**, 148(2018) 702–712.
39. Vinod Kumar Gupta, Njud S. Alharbie, Shilpi Agarwal, Vladimir A. Grachev, New Emerging One Dimensional Nanostructure Materials for Gas Sensing Application: A Mini Review, **Current Analytical Chemistry**, 14 (2018) 131-135.

DETAILS OF VISITS ABROAD

S. No	From	To	Institute and the Country of Visit	Purpose of Visit
1	28.01.2016	12.02.2016	CSIR, Pretoria, South Africa	Bilateral Visit
2	12.06.2015	22.06.2015	Malmo University, Sweden	Conference
3	01.12.2014	25.01.2014	KSU Riyadh & KFUPM Dhahran, Saudi Arabia	Lecture and Research
4	04.11.2014	12.11.2014	Al- Hasa and KFUPM Dhahran, Saudi Arabia	Keynote Speaker
5	25.09.2014	08.10.2014	CSIR, Pretoria, South Africa	Guest Professor
6	10.02.2013	15.02.2013	University of Tehran, Iran and Kish Island , Iran	Conference
7	26.05.2012	15.07.2012	King Fahd Univ. of Petroleum & Minerals, Dhahram, Saudi Arbia	Lecture and Research
8	12.05.2012	23.05.2012	Nurenberg, Germany	Research
9	04.02.2012	10.02.2012	Iran(Tehran, Masjecd-Solyman)	Conference
10	19.06.2011	24.06.2011	Budapest, Hungary	Conference
11	07.05.2011	11.05.2011	Amsterdam, Netherlands	Conference
12	11.09.2010	19.09.2010	Stockholm, Sweden	Conference
13	18.01.2010	23.06.2010	King Fahd Univ. of Petroleum & Minerals, Dhahram, Saudi Arbia	Chair Professor
14	17.04.2009	22.04.2009	King Fahd Univ. of Petroleum & Minerals, Dhahram, Saudi Arbia	Visit and Lectures
15	04.08.2008	08.08.2008	National University of Singapore, Singapore	Conference
16	26.11.2007	01.12.2007	RMIT University Melbourne, Australia	Conference and Academic Visit
17	01.12.2007	03.12.2007	National University of Singapore, Singapore	Academic Visit
18	17.04.06	21.04.06	National University of Singapore, Singapore	Visit and Lectures
19	08.10.05	16.10.05	University of Reading, Reading, UK	Visit and Lectures
20	01.07.05	31.07.05	Chemnitz Technical University. Chemnitz, Germany	Lectures/Research
21	19.07.05	19.07.05	Institut National Polytechnique de Lorraine, Nancy, France	Lecture
22	18.07.05	20.07.05	University of Aachen, Juelichn campus, Germany	Conference
23	24.04.2005	06.05.2005	Las Vegas, University of Texas at San Antanio and Intel at San Jose USA	Conference, lectures
24	15.06.2004	14.07.2004	and academic visits	DST-DAAD Project
25	23.06.2004	24.06.2004	Chemnitz, Germany	and Lecture
26	24.06.2004	25.06.2004	Universite Libre de Bruxelles, Bruxelles	Invited Lecture
27	06.07.2004	07.07.2004	University of Leuven, Leuven, Belgium	Academic discussion
28	15.06.2003	17.06.2003	University of Twente, Enchede, The Netherlands	To Deliver a Lecture
29	17.06.2003	19.06.2003	Int. Symposium on Sensors Science	To Chair a Session
			University of Leuven, Leuven, Belgium	To Deliver a Lecture
			Chemnitz Technical University.	DST-DAAD Proj
			Chemnitz, Germany	DST-DAAD Proj.
			Chemnitz Technical University.	and DAAD. Visiting Prof.
			Chemnitz, Germany	

30	20.06.2003	09.07.2003	CCS, ETH Technopark , Zurick Switzerland	Visit and Lecture
31	15.06.2002	31.07.2002	University of Regensburg, Regensburg, Germany	Academic Visit
32	27.06.2002	29.06.2002	Freie University of Berlin, Berlin, Germany	DAAD visiting Prof. To deliver invited talk and lectures
33	02.07.2002	03.07.2002	Yokohama National Univ.,	
34	01.08.2002	30.08.2002	Kyushu Univ. & Huisten-Bosch, Nagasaki, Japan	Conference & Academic visit
35	01.12.2001	08.12.2001	Basel and ETH Zurich, Switzerland	Conference
36	01.07.2000	07.07.2000	Inha University, South Korea	Academic visit
37	25.08.1996	29.08.1996	University of Hong Kong & Hong Kong	Visit of Institutes
38	30.08.1996	01.09.1996	Univ. of Science & Technology, Hong Kong	Conference &
39	01.02.1993	23.07.1993	University of Regensburg, and other Institutes, Germany	EC Post Doc. Fellow
40	30.07.1992	07.08.1992	University of Toronto & University of	Conference & Visit of Institutes
41	01.07.1990	08.07.1990	Kingston, Canada	Visit of Institutes
42	21.08.1988	26.08.1988	University of Kent, U.K	Conference &
43	24.08.1986	29.08.1986	University of Regensburg, Germany.	Visit of Institutes
44	30.08.1986	06.09.1986	Tokyo Institute of Technology, Tokyo, Japan.	Conference &
			Ohio State Univ., Columbus, U.S.A.	Visit of Institutes
45	17.08.1984	19.08.1984	Univ. of Western Australia, Perth, Australia	Lecture& Visit of University
46	20.08.1984	25.08.1984	Univ. of Auckland, New Zealand	Visit of Institutes & Lectures
47	17.08.1982	25.08.1982	Central Research Institute for Chemistry, Hungary	Conf. & visit of Institutes
				Conf. & visit of Institutes

DETAILS OF Ph. D. THESIS SUPERVISED

S.No.	Title of Thesis Ph.D. Degree Awarded	Year	Name of candidate
(A)			
1.	Kinetics and Mechanism of Oxidation of some Sulpha drugs by periodate.	1989	Dr. (Ms) Rashmi Gupta
2.	Kinetics and Synthetic Studies on Cobalt (II), Nickel (II) and Copper (II) Macroyclic Complexes.	1990	Dr. (Ms) Alka Maheshwari
3.	Kinetics and Mechanism of aminolysis of some Oxime Ethers.	1990	Dr. Anurag Kumar
4.	Studies on Electrochemical Behaviour of some Organic Molecules of Biological Importance.	1991	Dr. Alok Mittal
5.	Kinetics and Mechanism of Aminolysis of Some O-Aryloximes.	1992	Dr. Pritam Singh
6.	Removal of some Inorganic and Organic Toxic Substances using Fertilizer and Blast Furnace Waste Material.	1995	Dr. Dinesh Mohan
7.	Electroanalytical studies with membrane Sensors based on some macrocyclic compounds.	1996	Dr. Suresh Jain
8.	Electroanalytical Studies on Ion Selective Solid Membrane Electrodes for Some Heavy Metals.	1996	Dr. Lok Pratap Singh
9.	Development of Sensors for Heavy metals and Their Removal by Slag-A Blast Furnace Waste Material.	1996	Dr. M.K. Dewivedi
10.	Electroanalytical studies on some Heterogeneous membranes as ion sensors.	1997	Dr. Upendra Khurana
11.	Kinetic and Mechanistic Studies of Aminolysis Reactions of some O (2,4-Dinitrophenyl) Deriv-atives of Cyclic keto oximes.	1998	Dr. Neeraj Atrey
12.	Removal of some Inorganic and Organic Toxic Substances from water using Industrial Waste Materials.	1999	Dr. Saurabh Sharma
13.	Electroanalytical studies on Some ionic sensors for heavy metals.	2001	Dr. Pankaj Kumar
14.	Removal of some Toxic Substances from Aqueous Solutions using Industrial Wastes.	2001	Dr. (Ms.) Monica Sharma
15.	Development of Chemical Sensors for the Determination of some Toxic Metals.	2002	Dr. (Ms.) Rajni Mangla
16.	Synthesis of some New Ionophores and investigation on their potentiality in ion sensing	2003	Dr. Azad Kumar
17.	Development of Low Cost Adsorbents from Industrial Wastes for the Removal of Toxic Substances.	2003	Dr. Suhas
18.	Removal of Some Heavy Metals, Phenols and Dyes from waste Water using Bagasse fly Ash- A sugar Industry Waste	2004	Dr. I. V. S. Yadav
19.	Development of some PVC Based Ion Selective Electrodes and their Applications.	2005	Dr.(Ms) Shiva Agarwal
20.	Analysis of some Drugs in wastewater using Chromatographic Techniques.	2005	Dr. H. V. Pant
21.	Electrochemical and Adsorption Studies on the removal of some Organic Pollutants, Particularly Dyes, from waste water	2005	Dr. (Ms.) Shaily Varshney
22.	Electro analytical studies on some ion selective electrodes	2006	Dr. Jitendra Raisoni
23.	Removal of toxic substances from wastewater using inexpensive alternatives to carbon	2007	Dr. Vipin Kumar Saini

24	Development of some Potentiometric Sensors for the Determination of Toxic Metal Ions	2007	Dr. Gaurav Maheshwari
25	Electrochemical studies on some biologically important compounds and ion sensors	2007	Dr. (Ms.) Neeta Bachhetti
26	Removal of dyes from wastewater using photochemical and adsorption techniques	2008	Dr. (Ms.) Shalini Sikarwar
27	Studies on some potentiometric sensors for ion determination	2008	Dr. Barkha Gupta
28	Chromatographic analysis of some drugs in biological samples	2009	Dr. Uma Negi
29	Electro-organic Chemistry of some Biomolecules	2010	Dr. Ramo Avtar Sharma
30	Studies on some biosensors for drugs Electroanalytical studies on some biologically important compounds	2010	Dr. Manoj Pal
31	Electroanalytical studies on some biologically important compounds	2010	Dr. Sanghamitra Chatterjee
32	Synthesis and Characterization of Carbon Nanotube-Based Composites and their Applications for Water Treatment	2011	Dr. Twafik A. Saleh
33	Development of low cost adsorbents for waste water treatment	2012	Dr. Arunima Nayak
34	Bioremediation of some toxic substances from waste water using living biomass	2013	Dr. Preerna Singh
35	Electroanalytical studies on some ion selective Membrane electrodes.	2014	Dr. A. K. Bharti
36	Studies on lignocellulosic-isocyanate polymer Composites.	2014	Dr. Monika
37	Castor oil Transesterification- Experimental and Modeling Studies.	2014	Dr. Payal
38	Design and Synthesis of prospective antimalarials by [4+1] multicomponent reaction.	2015	Dr. Manoj Kumar
39	Design and synthesis of fluorescence turn-on chemosensors for some metal ions	2015	Dr. M. Naveen
40	Assessment of metal ion sensing abilities of some optical chemosensors	2015	Dr. L. K. Kumawat
41	Studies on some chemical Sensors for biomolecules and toxic metals	2016	Dr. Sudhir Kumar Shoora
42	Synthesis of metal oxides nanostructures for the removal of toxic residues	2016	Mr. Monu
43	Development of novel adsorbents for removal of noxious impurities from wastewater	2016	Mr. Inderjeet Tyagi

Research Papers:

1. Peyman Mohammadzadeh Jahani, Maedeh Jafari, Vinod Kumar Gupta, Shilpi Agarwal, Graphene quantum dots/ionic liquid-Modified Carbon Paste Electrode-Based Sensor for Simultaneous voltammetric determination of norepinephrine and acetylcholine, **Int. J. Electrochem. Sci.**, 15(2020) xx – yy.
2. Duddukuru Saritha, Vinod Kumar Gupta, Ambavaram Vijaya Bhaskar Reddy, Shilpi Agarwal, Muhammad Moniruzzaman^{3,4}, Kowthalam Anitha⁵, Gajulapalle Madhavi¹, Development of a Simple, Selective, Stable and Ultrasensitive Poly (safranine/nano NiO) Modified Carbon Paste Electrode for Selective Detection of Rutin in Buckwheat and Green Tea Samples, **Int. J. Electrochem. Sci.**, 14 (2019) 10093 – 10110.
3. BehanmMaazinej, Osveh Mohammadnia, Gomaa A.M. Ali, Abdel S.H. Makhlof, Mallikarjuna N. Nadagouda, Mika Sillanpää, Abdullah M. Asiri, Shilpi Agarwal, Vinod Kumar Gupta, HamidrezaSadeghi, Taguchi L9 (34) Orthogonal Array Study Based on Methylene Blue Removal by Single-Walled Carbon Nanotubes-Amine: Adsorption Optimization using the Experimental Design Method, Kinetics, Equilibrium and Thermodynamics, **Journal: Journal of Molecular Liquids**
4. Mostafa Rajabi, Oimrd Moradi, Mika Sillanpää, Karim Zare, Abdullah M. Asiri, Shilpi Agarwal, Vinod Kumar Gupta, Removal of toxic chemical ethidium monoazide bromide using graphene oxide: Thermodynamic and kinetics study, **Journal of Molecular Liquids**, 293C (2019) 111484.
5. Ehsan Pourtaheri¹, Mohammad Ali Taher¹, Gomaa A.M. Ali, Shilpi Agarwal, Vinod Kumar Gupta, Low-cost and Highly Sensitive Sensor for Determining Atorvastatin Using PbTe Nanoparticles-Modified Graphite Screen-Printed Electrode, **Int. J. Electrochem. Sci.**, 14 (2019) 9622 – 9632,
6. Silver mediated Bi₂O₃ and graphitic carbon nitride nanocomposite as all solid-state Z scheme photocatalyst for imidacloprid pesticide abatement from water, **Desalination and Water Treatment**
7. AnahitaManafi, MojganHosseini, AliFakhri, Vinod KumarGupta, ShilpiAgarwal, Investigation of photocatalytic process for iron disulfide-bismuth oxide nanocomposites by using response surface methodology: Structural and antibacterial properties, **Journal of Molecular Liquids**, 286C (2019) 110950.
8. Sonu, VishalDutta, SheetalSharma, PankajRaizada, AhmadHosseini-Bandegharaeic, VinodKumar Gupta, PardeepSingh, Review on augmentation in photocatalytic activity of CoFe₂O₄ via heterojunction formation for photocatalysis of organic pollutants in water, **Journal of Saudi Chemical Society**,
9. Pankaj Raizada, Anita Sudhaik, Pardeep Singh, Pooja Shandilya, Vinod Kumar Gupta, Shilpi Agrawal, Ahmad Hosseini-Bandegharaeid, Ag₃PO₄ modified phosphorus and sulphur co-doped graphitic carbon nitride as a well dispersed and stable Z-scheme photocatalyst for 2, 4-dimethyl phenol degradation. **j. Photochem.J. Photobiology-A**, 374 (2019) 22-35.
10. Ehsan Pourtaheri, Mohammad Ali Taher, Gomaa A.M. Ali, Shilpi Agarwal, Vinod Kumar Gupta, Electrochemical detection of gliclazide and glibenclamide on ZnIn₂S₄ nanoparticles-modified carbon ionic liquid electrode, **Journal of Molecular Liquids**, 289C (2019) 111141.
11. Xiaojun Li, Zhijun Zhang, Ali Fakhri, Vinod Kumar Gupta, Shilpi Agarwal, Adsorption and photocatalysis assisted optimization for drug removal by chitosan-glyoxal/ Polyvinylpyrrolidone/MoS₂ nanocomposites, **International Journal of Biological Macromolecules**, 136C (2019)469-475.

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13. Vishal Dutta, Pardeep Singh, Pooja Shandilya, Sheetal Sharma, Pankaj Raizada, Adesh K. Saini, Vinod Kumar Gupta, Ahmad Hosseini-Bandegharaei, Shipli Agarwal, Abolfazl Rahmani-Sani, Review on advances in photocatalytic water disinfection utilizing graphene- and graphene derivatives-based nanocomposites, **Journal of Environmental Chemical Engineering**, 7 (2019) 103132
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20. Mohammad Hadi Dehghani, Mohammad Sarmadi, Mohammad Raza Alipour, Daryoush Sanaeid, Hamid Abdolmaleki, Shilpi Agarwal, Vinod Kumar Gupta, Investigating the Equilibrium and Adsorption Kinetics for the Removal of noxious Ni (II) from Aqueous Solutions using Adsorbents Prepared from the Treated Waste Newspapers: A Low-Cost and Available Adsorbent, **Microchemical Journal**, 146(2019) 1043-1053.
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27. Kiomars Sharafi, Meghdad Pirsahab, Vinod Kumar Gupta, Shilpi Agarwal, Masoud Moradi, Yasser Vasseghiana Elena-NiculinaDragoi, Phenol adsorption on scoria stone as adsorbent - Application of response surface method and artificial neural networks, **J. Molecular Liquids**, 274(2019)699-714.
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31. MasoudMoradi, MaryamHeydari, MohammadDarvishmotevalli, KamaladdinKarimyan, Vinod KumarGupta, YaserVasseghianc, HooshmandSharafi, Kinetic and modeling data on phenol removal by Iron-modified Scoria Powder (FSP) from aqueous solutions, **Data in Brief**, 20(2018)957–968.
32. Yaya Safari, NasrinYoosefpour, MohammadDarvishmotavalli, Yaser Vasseghiana Kamaladdin Karimyan, Vinod Kumar Gupta, Omid Nasri, Arash Ziapoura, The dataset on rural women's awareness and attitudes about residential constructions in accordance with the health standards A case study of Gilan-e-Gharb, Iran, **Data in Brief**20(2018)715–722.
33. Z, Atarodi, K. Karimyan, V. K. Gupta, Abbasi, M, Moradi, M. Evaluation of indoor air quality and its symptoms in office building – A case study of Mashhad, Iran, **Data in Brief**, 20(2018)74-79.
34. Masoud Moradia, Ali Esrafilib, Meghdad Pirsaheba, Vinod Kumar Gupta. Hooshmand Sharafid, Hossein Arfaeinia, Roshanak Rezaei Kalantary, The Inactivation of Fecal Coliform Using Fe₃O₄@Cu Nanocomposite in Real Wastewater: Emphasizing on Synergic Effect and Inactivation Mechanisms; **Des.Wastewater Treatment**, 123 (2018) 41–51.
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36. Vinod Kumar Gupta, Hassan Karimi-Maleh, Shilpi Agarwal, Fatemeh Karimi, Majede Bijad, Mohammad Farsi, Seyed-Ahmad Shahid, Fabrication of a Food Nano-Platform Sensor for Determination of Vanillin in Food Samples, **Sensors Sensors**, (18) 2018, 2817 .

37. Zahra Atarodi, Kamaladdin Karimyan, Vinod Kumar Gupta, Morteza Abbasi, Masoud Moradi, Evaluation of indoor air quality and its symptoms in office building - A case study of Mashhad, Iran, **Data in Brief**, 20 (2018) 74-79.
38. Yahya Safari; Kamaladdin Karimyan; Vinod Kumar Gupta; Arash Ziapour; Masoud Moradi; Nasrin Yoosefpour; Maliheh Akhlaghi; Hooshmand Sharifi, A Study of Staff's Awareness and Attitudes towards the Importance of Household Hazardous Wastes (HHW) Management (A Case Study of Kermanshah University of Medical Sciences, Kermanshah, Iran, **Data in Brief**, 19(2018) 1490-1497.
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DETAILS OF M. Phil. THESIS SUPERVISED

S.N.	Title of Thesis	Year	Name of candidate
1.	Isolation of Phytosterols from Agricultural Wastes Press Mud of Sugarcane and Foot of Soyabean Oil Industry.	1992	Mr. Vivek Kumar
2.	Studies on the Removal of Lead and Copper by Blast Furnace Slag - A Waste Material Generated in Steel Plants.	1994	Ms. Rajni Tyagi
3.	Studies on the Application of Slag-A Blast Furnace Waste Material, for the Removal of some Heavy Metals	1995	Ms. Arshi Rastogi
4.	Studies on the Removal of Lead and Chromium by Using Bagasse fly ash-A Sugar Industry Waste material.	1996	Ms. Smriti Maheshwari
5.	PVC based Organic Exchanger and Neutral Carrier Membranes as Ion-Selective Electrodes For the Determination of Sr(II) and Cd(II) ions.	1997	Ms. Shivani
6.	Kinetic Studies on the Aminolysis Reaction of O- (2,4-dinitrophenyl) p-hydroxyaceto-phenone Oxime	1997	Ms. Bhawna Kulshreshta
7	Removal of Copper from Aqueous Solutions using Red Mud - An Aluminum Industry Waste	1999	Mr Azad Kumar
8.	Removal of Nickel from Aqueous Solutions using Red Mud - An Aluminium Industry Waste	2000	Mr. Avnish Kumar Arora
9.	Studies on some PVC based heterogeneous membranes as ion sensors	2001	Mr. Saurav Mehta
10.	Removal of some toxic substances from aqueous solutions using waste material	2003	Ms. Ila Dharmshaktu

DETAILS OF M. Sc. DISSERTATIONS SUPERVISED

Degree Awarded

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|-----|---|------|----------------------|
| 1. | Silver (I) Catalysed and uncatalysed oxidation of Vanadium (IV) by peroxydisulphate ion in sulphuric Acid. | 1984 | Mr. N.C. Mathur |
| 2. | Kinetics and Mechanism of osmium(VIII) oxidation of Phosphate in Aqueous Alkaline Medium | 1985 | Mr. Alok Kumar Sinha |
| 3. | Kinetics and Mechanism of Ruthenium(III) Catalysed Oxidation of some Aliphatic Amines by Hexacyanoferrate(III). | 1986 | Ms. Minal Jain |
| 4. | Kinetics of Oxidation of Serine and Threonine by Potassium Permanganate in Acid Medium. | 1987 | Mr. N. Prasad Babu |
| 5. | Kinetics of oxidation of <i>o</i> -methoxy-aniline by Periodate in Acetic Acid-water Medium | 1988 | Mr. Faizal S. |
| 6. | TLC Separation of Synthetic Dyes on Impregnated Layers. | 1989 | Ms. Anju Joshi |
| 7. | Kinetics and Mechanism of oxidation of Aniline by Peroxomonosulphate in Acetic Acid-water Medium | 1989 | Mr. Munish Sood |
| 8. | Removal of Phenolic Wastes by Chlorination | 1990 | Mr. Anupam |
| 9. | Separation of Copper (II) from Manganese (II), Cobalt (II), Nickel (II) and Zinc (II) using Acetylacetone. | 1990 | Ms. Nidhi Gupta |
| 10. | Kinetic studies on the Peroxomono-sulphate Oxidation of Aniline. | 1991 | Mr. Alok Kumar |
| 11. | Studies on the Electroxidation Product(s) of Sulfafurazole. | 1991 | Ms. Rekha |

12.	Kinetics of Oxidation of DL-methionine by Potassium dichromate.	1992	Ms. Vartika Saran
13.	TLC Separation, Identification of Transition Metal Ions and their Quantitative Estimation by AAS.	1994	Mr. Nagendra Dhagarra
14.	Studies on the Removal of some Substituted Phenols using Bagasse fly ash-A Sugar Industry Waste Material.	1994	Ms. Navisha Johri
15.	Studies on PVC Based DBBP and DEPHA Membrane Electrodes for the Determination of Vanadyl Inos.	1995	Ms. Shalini Jain
16.	Separation and Identification of Some Transition Metal Ions by Thin Layer Chromatography.	1995	Mr. Vijay K. Bhaskar
17.	Removal of Phenol and p-Chlorophenol from Wastewater using Bagasse Fly ash-A Sugar Industry Waste Material.	1996	Ms. Pallavi Jain
18.	Studies on PVC Based TPP and TMPMembrane Electrodes for the Determination of Nickel (II) ions.	1996	Mr. Kaushik Dutta
19.	Removal of Rhodamnie-B and Methylene blue from aqueous solutions using bagasse fly ash - A Sugar Industry Waste.	1997	Mr.SachinVarshney Vivek
20.	Studies on the adsorption of zinc (II) ions on Red mud - an aluminium indsutry waste.	1998	Mr. Suhas
21.	A PVC based dibenzo-18-crown-6 potentiometric sensor for Sr (II) ions.	1998	Ms. Shilpa Khurana
22	Kinetics and mechanism of aminolysis reactions of o- (2,4dinitrophenyl)-cyclohexanone oxime in toluene	1999	Mr. Navneet Kumar Tyagi
23.	Studies on Poly (Vinyl Chloride) Based Heterogeneous Membrane Electrode Selective for Cd ²⁺ ions.	2000	Ms. Pooja Saxena
24.	Removal of congo red from aqueous solutions using bagasse fly ash	2001	Mr. Ram Kuntal Hazara
25.	Study on PVC Based Ion Selective Electrode for Nickel(II) Ions	2002	Ms. Surabhi Arya
26	Study on PVC based ion selective electrode for cadmium (II) ion	2003	Ms. Soni Gejwal

27	Electroanalytical Studies on a Poly (Vinyl Chloride) Based Membrane Electrode for Ca (II) Ions	2004	Mr Srinivasa Rao Kadali
28	Electroanalytical Studies on a poly (vinyl chloride) based ion selective electrode for Ni (II) Ions	2005	Mr. Shobhit Nigam
29	Development of PVC Based Ion-Selective Electrodes for Mn (II) Ions	2006	Ms. Priya Agarwal
30	Adsorption studies on the removal of Cr (VI) from aqueous solutions by Carbon Slurry- A Waste Material	2008	Mr. Ajeet Singh
31	Synthesis of a novel ionophor and its use in PVC membranes for the Determination of Zn 2+	2009	Mr. Satya Narayana
32	Removal of vanadium from aqueous solutions using red mud-an aluminum industry waste as adsorbent	2011	Mr.TusharSuhasaria
33	Removal of Methyl red from aqueous solutions using red mud-an aluminium industry waste	2012	Mr. Bachhav Gaurav Dilip
34	Removal of p-cresol from aqueous solutions using native blue green algae as precursor	2013	Mr. Sandeep Kumar Jain
35	Colorimetric sensor based on Schiff's base for copper ion	2014	Mr. Ankit S. Agrawal
36	Flavonol based fluorescent chemo sensors for Al ³⁺ and Zn ²⁺	2015	Mr. Sumit
37	In-silico docking studies of the derivatives of Dibenzothiazepine/dibenzoxazepine binding to The warfarin binding site of bovine serum albumin	2016	Mr. Ananya