

Curriculum Vitae of Prof. V. K. Gupta

- Name** : Dr. Vinod Kumar Gupta,
FWIF, FNASc
- Designation** : Professor of Chemistry
- Father's Name** : (Late) Sri. J.L. Gupta
- Date of Birth** : 17th January 1953
- Mailing Address** : **Dr. V.K. Gupta**
Professor of Chemistry &
Professor in-charge Security
INDIAN INSTITUTE OF TECHNOLOGY,
ROORKEE
Roorkee – 247 667
(Uttaranchal) INDIA
- Tel. 01332-285801 (O.); 274458 (R)
+ 91-9897903016 (M)
- Fax 0091-1332-273560
- Email vinodfcy@iitr.ernet.in
vinodfcy@gmail.com
- Academic Qualification** : B. Sc. (1st Div.) 1972, Meerut University
M.Sc. (1st Div.) 1975, University of Roorkee
Ph. D. 1979, University of Roorkee
- Employment Record** : Post Doctoral Fellow (CSIR), Univ. of Roorkee, 1979-81.
Pool Officer (CSIR), Univ. of Roorkee, 1981-83.
Lecturer, Univ. of Roorkee, 1983-94
Marie Curie Fellow of European Commission, Univ.
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 June 2001
- Teaching Experience** : Thirty one 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. Environmental Chemistry
2. Electro-analytical Chemistry
3. Chemical sensors
4. Waste Management

Research Experience : Thirty two years research experience
(a) Ph.D. Thesis supervised – **28**
(b) Ph.D. Thesis in progress – **04**
(c) M. Phil Thesis supervised – **10**
(d) M.Sc.Dissertation supervised –**29**

PUBLICATIONS:

Books/Monographs: one

9 invited chapters in books and encyclopedias

Research Papers/Reviews: 245 Papers in International Peer Reviewed Journals with high Impact Factors (Indian Journals - **28** Foreign Journals – **217**); **13** reviews in highly cited Journals including Nature (Citations: **More than 2500** up to Dec. 2007). **40** Papers presented at various National and International Conferences.

Academic Visits Abroad:

Australia, Canada, Hungary, Italy, Japan, Netherlands, New Zealand, Singapore, Thailand, U.K., U.S.A., Germany, Hongkong, South Korea, France, Belgium and Switzerland

Major Sponsored Research Projects Completed During the last ten years.

1. Electroanalytical Studies on some ionic sensors based on solid and liquid membranes. (UGC, New Delhi, Aug. 1992 - March 1998).
2. Development of Chemical sensors for the determination of some toxic metals. (CSIR, New Delhi, Aug, 1997-Sep. 2001).
3. Electrochemical treatment of dyes in textile, cosmetic, food and pharmaceutical Industrial effluents (Ministry of Environment, G O I, March 1998-Sep. 2001).
4. Development of Chelating Ionophore Based Chemical Sensors for Arsenic Determination, (SERC,DST, GOI, June 2001- May 2004).
5. 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).
6. Removal of toxic substances from wastewater using inexpensive alternatives to carbon (CSIR, New Delhi, Sep.2002-2005).

Research Projects in Progress

1. Development of low cost adsorbents for the removal of toxic metal ions from water using algal biomass(DST, GOI, Oct. 2006- continue Project cost Rs. 14.50 lacs).

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, South Korea.
8. University of Regensburg, Regensburg, Germany.
9. King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia
10. University of Belgrade, Bor, Serbia, Yugoslavia.
11. University of Leuven, Leuven, Belgium.

Recognitions:

1. Highly Cited Researcher in Ecology and Environmental Engineering as per Thomson ISI.
2. Membership of Editorial Boards of the following International Journals:
 - OXIDATION COMMUNICATIONS** (1982- onwards)
 - SENSORS** (2000- onwards)
 - ELECTRONIC JOURNAL OF MATHEMATICAL AND PHYSICAL SCIENCES**
 - 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-onwards)**
 - 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)**Besides above, edited two special issues of The **SENSORS** on 'Ion sensors' and 'Chemical Sensors for Heavy Metals'.
3. Delivered Lectures at the 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).
4. Chaired Sessions in **12** International Conferences in Hungary (1982), New Zealand (1984), Germany (1988,2005), Canada (1992), South Korea (1996), Switzerland (2000), Japan (2001), France (2003), USA (2005) and Singapore

(2006, 2008).

5. Fellow of World Innovation Foundation (F.W.I.F.)(2004).
6. Fellow of National Academy of Sciences (FNASc)(2008).
7. Membership of the Research Degree Committees / Board of Studies for the following National level Institutions:

Convenor RDC in Chemistry, U. P. Technical University, Lucknow, India.

HNB Garhwal University, Srinagar (UA) (2003-onwards)

Rajeev Gandhi Technical University Bhopal (M.P.)(2006-onwards).

Mizoram University, Aizwal (2006-onwards).

National Institute of Technology, Bhopal (M.P.) (2002-onwards).

National Institute of Technology, Kurukshetra (Haryana) (2006-onwards).

8. Membership of following Advisory Boards/ Committees:

National Expert Committee for the HRD Group of CSIR Selections.

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

9. 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 to be held at National University of Singapore, Singapore During 5-7th August 2008.

10. Visiting Professor at Department of Environmental Chemistry, Jiwaji University, Gwalior, India.

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. Elected Member of American Chemical Society.
2. Founder Member of International Society of Porphyrins and Phthalocyanines.
3. Life Member Indian National Science Congress Association.
4. Elected Member of Chemistry Sectional Committee for 89th Session of ISCA (2001-2002)
5. Member International Association on Water Quality (IAWQ).
6. Life Member Indian Society for Electro analytical Chemistry (ISEAC)
7. Member International Society of Electrochemistry.

Organization of National/International Conferences

1. Member organizing committee in the Symposiums on Recent Trends in Instrumental Methods of Analysis, University of Roorkee, March 12-14, 1985; March 2-4, 1989; March 24-26, 1992; Sep, 18-20, 1997
2. Member organizing committee in the International Conference on Planning for 21st Century, University of Roorkee, Oct. 2-4, 1997.
3. Member organizing committee in the National Seminar on KNOWLEDGE MANAGEMENT, University of Roorkee, March 5th, 2000.
4. Member National Advisory Committee of Second International Seminar on Analytical Techniques in Monitoring the Environment, Tirupati, AP, Dec.18-20, 2000
5. Member Organizing Committee in the National Symposium on Radiation and Photochemistry, to be held at University of Roorkee, Feb.21-23, 2001.
6. Member National Advisory Committee of the National Symposium on Advanced Instrumental Methods of Analysis held during 7-8 June 2002 at Dehradun (UA).
7. Organizing Secretary 22nd Annual Conference of Indian Council of Chemists, held at Roorkee, India, 17-19 Oct. 2003.
8. 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.
9. 6th East Asian Conference on Chemical Sensors held at Guilin, China (November, 2005).
10. Member Advisory Committee of National Conference on Greener Aspects of Electrochemistry held at Jiwali University, Gwalior, during 7-9 Dec. 2007.
11. 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.
12. Member International Advisory Committee of The sixth International Multi-Conference on Systems, Signals and Devices SSD'09, 23-26 March 2009, Jerba, Tunisia

Administrative Experience

University/Institute assigned the following important administrative positions in addition to my academic responsibilities. The duties and responsibilities of each of these positions were discharged earning recognition and credibility:

Presently:

1. Professor in-charge Security (since January 2009)
2. Member, Senate (since 2001)
3. Member, Institute Administrative Committee (since 1.1.2006)
4. Member, DRC Chemistry Department (since 2002)
5. Member, Stores and Purchase Committee of Chemistry Department (since 2001)

Previously:

- 1, Dean of Students' Welfare (1.1.2006- 31.12.2008)
2. Member, Executive Committee of Senate (1.1.2006-31.12.2008)
3. Elected Member of University of Roorkee Syndicate from 11.2.2000 to 21.9.2001 and first BoG of IIT Roorkee up to March 2002.
4. Member, University of Roorkee Senate from 1995 to 1998.
5. Assoc. Dean of Students' Welfare (01.01.2003 – 31.04.2006)
6. Vice Chairman JEE-P 2003 (Entrance for Uttaranchal Polytechnics)
7. Chairman, Discipline Committee of IIT Roorkee (01.01.2003 to 31.04.2006)
8. Chairman, Coordinating Committee of Bhawans (CCB) (01.01.2003 to 31.04.2006)
9. Member, University Academic Council (one year)
10. Member, Board of Post Graduate Studies and Research (2003 – 2006)
11. Dy. Officer-in-Charge University of Roorkee Convocation-2001
10. Chief Warden Govind Bhawan (1.6.95 to 31.3.98) and Azad Bhawan (13.6.2000 to 31.12.2002)
11. Officer In charge, University Vehicle Section (1998 to 1999), Coordinator Transportation REE-1994 & 1995, CPMT (1998 & 1999)
12. Staff Advisor, Yogic Exercises (one year) and Dy. Chief Advisor, Institute Educational Cinema Club (2002 – 2005)

Publications

Books/Monographs: Nano Chromatography and Capillary Electrophoresis: Pharmaceutical and Environmental Analyses, John Wiley & Sons, Inc. (2009).

Authored following 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 and Robyn Hannigan, published by Elsevier (2007), pages 33-59 .
10. **Electrochemical Sensors for Liquid Environment**, for the book "Chemical Sensors". Being edited by Prof. Ghenadii Korotcenkov and Prof. Johannes Schwank and to be published by Momentum Press (USA) (2009).

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 (2006).
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. 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).
9. I. Ali, V. K. Gupta, H. Y. Aboul-Enein, Chiral Resoution of Racemic Environmental Pollutants by Capillary Electrophoresis, **Critical Reviews in Analytical Chemistry**, 38, 132-146 (2008).
10. 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).
13. Imran Ali, Hassan Y. Aboul-Enein and V.K. Gupta, Microchip-Based Nano Chromatography and Nano Capillary Electrophoresis in Genomics and Proteomics, **Chromatographia** (In Press).
12. V.K. Gupta, P.J.M. Carrott, M.M.L. Ribeiro Carrott, Suhas, Low **cost** adsorbents: Growing approach to wastewater treatment – A review, **Critical Reviews in Environmental Science and Technology** (Accepted).
13. V.K.Gupta and Suhas, Application of low cost adsorbents for dye removal- A review, **J. Environ. Management** (In press).

Research Papers:

1. Imran Ali, V. K. Gupta, Prashant Singh and Uma Negi, Analysis of Chloramphenicol in Biological Samples by HPLC, **Anal. Lett.**(Communicated).
2. V. K. Gupta, R. N. Goyal, and R. A. Sharma, Comparative studies on Neodymium (III)-selective membrane sensors, **Anal. Chim. Acta**, (Communicated).
3. V. K. Gupta, Alok Mittal, Dipika Kaur Arti Malviya and Jyoti Mittal, Adsorption Studies on the Removal of Colouring Agent Phenol Red from Wastewater Using Waste Materials as Adsorbents, **J. Colloid Interface Sci.** (Communicated).
4. R. N. Goyal, V. K. Gupta, S. Chatterjee A sensitive voltammetric sensor for determination of synthetic corticosteroid triamcinolone, abused for doping, **Biosensors and Bioelectronics**, (Communicated).
5. I. Ali, V. K. Gupta and H. Y. Aboul-Enein Supramolecular dynamics of thalidomide and its derivative in water-sediment system, **Chirality** (Accepted).
6. V. K. Gupta, A.K. Singh and Manoj. K. Pal, Electrochemical Studies on quaternary ammonium pharmaceutical membrane electrodes in Pharmaceutical analysis, **Electrochim. Acta** (Accepted).
7. V. K. Gupta, Manoj. K. Pal and A.K. Singh, Comparative evaluation of Dy(III) selective poly(vinyl) chloride based membrane electrodes of macrocyclic tetraimine Schiff bases, **Talanta** (Accepted).
8. V. K. Gupta, Alok Mittal, Arti Malviya and Jyoti Mittal, Adsorption of Carmoisine A from Wastewater Using Waste Materials – Bottom Ash and De-Oiled Soya, **J. Colloid Interface Sci.** (Accepted).
9. V.K.Gupta and Suhas, Application of low cost adsorbents for dye removal- A review, **J. Environ. Management**, (In Press).
10. V.K. Gupta, P.J.M. Carrott, M.M.L. Ribeiro Carrott, Suhas, Low cost adsorbents: Growing approach to wastewater treatment – A review, **Critical Reviews in Environmental Science and Technology** (Accepted).
11. V. K. Gupta, R. N. Goyal, and R. A. Sharma, Chloride Selective Potentiometric Sensor based on a Newly Synthesized Hydrogen Bonding Anion receptor, **Electrochimica Acta**, **54** 4216-4222(2009).
12. I. Ali, H. 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, R. N. Goyal, A. K. Jain and R. A. Sharma, An aluminum (III)-selective PVC membrane based on a Schiff base complex of N, N'-bis(salicylidene)-1,2-cyclohexanediamine, **Electrochimica Acta** **54**, 3218-3224 (2009).
14. R. N. Goyal, V. K. Gupta, S. Chatterjee, Fullerene – C 60 – modified edge plane pyrolytic graphite electrode for the determination of dexamethasone in pharmaceutical formulations and human biological fluids, **Biosensors and Bioelectronics**, **24**. 1649-1654 (2009).
15. V. K. Gupta, R. N. Goyal, A. K. Jain and R. A. Sharma, Comparative Studies on ONNO based Ligands as Ionophores for Palladium Ion-Selective Sensors, **Talanta** **78** 484-490 (2009)
16. V. K. Gupta, M. Al Khayat, A.K. Singh and Manoj. K. Pal, Nano level detection of Cd (II) using Poly (Vinyl Chloride) based membranes of Schiff bases, **Anal.Chim. Acta**, 634(1), 36-43(2009).
17. V. K. Gupta and A. Rastogi, Biosorption of hexavalent chromium by raw and acid-treated green alga *Oedogonium hatei* from aqueous solutions, **J. Hazardous Materials**. **163**. 396-402 (2009).
18. V. K. Gupta, R. N. Goyal, and R. A. Sharma, Novel alizarin sensor for determination of Vanadium, Zirconium and Molybdenum, **Int. J. Electrochem. Sci.**, 4,156-172(2009).
19. V. K. Gupta, A.K. Singh and Manoj. K. Pal, Comparative study of Ag (I) selective PVC membrane sensors based on newly developed Schiff-base lariat ethers derived from 4,13-diaza-18-crown-6, **Anal.Chim. Acta**, 631, 161-169 (2009).
20. V.K. Gupta, I. Ali, P. Singh, H.V. Pant and H.Y. Aboul-Enein, Fast Screening of Chloramphenicol in Wastewater by High Performance Liquid Chromatography and Solid Phase Extraction Methods, **J. Liq. Chromatogr. Related Technologies**, 31, 2862–2878, (2008).
21. R. N. Goyal, M. Oyama, V. K. Gupta, S. P. Singh and S. Chatterjee, Sensors for 5-hydroxytryptamine and 5-hydroxyindole acetic acid based on nanomaterial modified electrodes, **Sensors & Actuators: B. Chemical**, 134, 816-821 (2008).
22. I. Ali, V. K. Gupta, H. Y. Aboul-Enein, Chiral Resolution of Racemic Environmental Pollutants by Capillary Electrophoresis, **Critical Reviews in Analytical Chemistry**, 38, 132-146 (2008).
23. V. K. Gupta, A.K. Singh and Manoj. K. Pal, Ni (II) selective sensors based on Schiff bases membranes in poly (vinyl chloride), **Anal. Chim. Acta**, 624(2), 223-231 (2008).

24. 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).
25. V. K. Gupta, R. N. Goyal, R. A. Sharma, Anion recognition using newly synthesized hydrogen bonding disubstituted phenylhydrazone based receptors: poly (vinyl chloride) based sensor for acetate, **Talanta**, 76, 859-864 (2008).
26. V. K. Gupta, Arshi Rastogi, V. K. Saini and Neeraj Jain, Corrigendum to "Biosorption of copper (II) from aqueous solutions by *Spirogyra* species" [J. Colloid Interface Sci. 296 (2006) 59-63], **J. Colloid Interface Sci.**, 325, 294 (2008)
27. R. N. Goal, V. K. Gupta, Sanghamitra Chatterjee, Simultaneous determination of adenosine and inosine using single-wall carbon nanotubes modified pyrolytic graphite electrode, **Talanta**, 76(3), 663-669 (2008).
28. V. K. Gupta and A. Rastogi, Biosorption of lead from aqueous solutions by non-living algal biomass *Oedogonium* sp. and *Nostoc* sp. - a comparative study **Coll. & Surfaces B**, 64(2), 170-178 (2008).
29. V. K. Gupta, A.K. Singh and Barkha Gupta, Electroanalytical performance of Terbium (III) selective sensor based on a neutral ionophore in environmental and medicinal samples, **Anal. Bioanal. Chem.**, 390, 2171-2181 (2008).
30. V.K. Gupta, A.K. Jain, M. Al Khayat, S. K. Bhargava, and J.R. Raison, Electroanalytical studies on Cobalt (II) selective potentiometric sensor based on bridge modified calixarene in poly (vinyl chloride), **Electrochimica Acta**, 53(16), 5409-5414 (2008).
31. V. K. Gupta and A. Rastogi, Sorption and desorption studies of chromium (VI) from nonviable cyanobacterium *Nostoc muscorum* biomass, **J. Hazardous Materials**, 154(1-3), 347-354 (2008).
32. R. N. Goal, V. K. Gupta, Sanghamitra Chatterjee, Electrochemical oxidation of 2', 3'- dideoxyadenosine at pyrolytic graphite electrode, **Electrochimica Acta**, 53(16), 5354-5360 (2008).
33. R. N. Goyal, V. K. Gupta, Neeta Bachheti, R. A. Sharma, Electrochemical Sensor for the Determination of Dopamine in Presence of High Concentration of Ascorbic Acid using a Fullerene-C60 Coated Gold Electrode, **Electroanalysis**, 20, 757-764(2008).
34. V. K. Gupta and A. Rastogi, Equilibrium and kinetic modeling of cadmium (II) biosorption by nonliving algal biomass *Oedogonium* sp. from aqueous phase, **J. Hazardous Materials** 153(1-2). 759-766(2008).

35. V. K. Gupta and A. Rastogi, Biosorption of lead from aqueous solutions by green algae *Spirogyra* species: Equilibrium and adsorption kinetics. **J. Hazardous Materials** 152(1), 407-414 (2008).
36. V.K. Gupta and I. Ali, Removal of Endosulfan and Methoxychlor from Water on Carbon Slurry, **Environ. Sci. Technol.**, 42,766-770(2008).
37. V. K. Gupta, A. Mittal, L. Kurup and J. Mittal, Process Development for Removal and Recovery of Metanil Yellow by Adsorption on Waste Materials - Bottom Ash and De-Oiled Soya, **J. Hazardous Materials**, 151(2-3), 834-845 (2008).
38. V.K. Gupta, A.K. Jain, R. Ludwig, G. Maheshwari, Electroanalytical studies on cadmium (II) selective potentiometric sensors based on t-butylthiacalix[4]arene and thiacalix[4]arene in poly(vinyl chloride), **Electrochimica Acta**, 53(5), 2362-2368 (2008).
39. V. K. Gupta, A. Mittal, L. Kurup and J. Mittal, Adsorption of basic fuchsin using waste materials - bottom ash and de-oiled soya as adsorbents, **J. Colloid Interface Sci.**, 319(1), 30-39 (2008).
40. V. K. Gupta, A.K. Singh and Barkha Gupta, Development of membrane electrodes for selective determination of some antiepileptic drugs in pharmaceuticals, plasma and urine, **Anal. Bioanal. Chem.**, 389(6), 2019 - 2028 (2007).
41. V.K. Gupta, A.K. Jain, H. Lang, Z. Ishtaiwi, G. Maheshwari, Ni²⁺ selective sensors based on meso-tetrakis-{4-[tris-(4-allyl dimethylsilyl-phenyl)-silyl]-phenyl}porphyrin and (sal)₂trien in poly(vinyl chloride) matrix, **Talanta**, 73(5), 803-811 (2007).
42. V. K. Gupta, A.K. Singh and Barkha Gupta, Potentiometric sensors enabling fast screening of the benign prostatic hyperplasia drug alfuzosin in pharmaceuticals, urine and serum, **Combinatorial Chemistry & High Throughput Screening**, 10(7), 560-570 (2007).
43. I. Ali, H. Y. Aboul-Enein and V. K. Gupta, Analysis of Metformin in Dosage Formulation by Capillary Electrophoresis at Nano Scale Detection, **Combinatorial Chemistry & High Throughput Screening**, 10(7), 611-615 (2007).
44. V. K. Gupta, A. K. Singh and Barkha Gupta, Potentiometric sensor for the determination of Tetramisole hydrochloride, **Combinatorial Chemistry & High Throughput Screening**, 10(7), 583-594 (2007).
45. V. K. Gupta, I. Ali and V. K. Saini, Adsorption studies on the removal of Vertigo Blue49 and Orange DNA13 from aqueous solutions using carbon slurry developed from a waste material, **J. Colloid Interface Sci.**, 315(1), 87-93 (2007).

46. R. N. Goyal, V. K. Gupta and Neeta Bachheti, Fullerene-C60-modified electrode as a sensitive voltammetric sensor for detection of nandrolone, **Anal. Chim. Acta**, 597(1), 82-89 (2007).
47. V.K. Gupta, I. Ali and V. K. Saini, Removal of Fluoride from Water by Adsorption on Carbon Slurry: A Waste Material of Fertilizer Industry, **Water Research**, 41(15), 3317-3326(2007) .
48. V. K. Gupta, R. Jain, and S. Varshney, Electrochemical Removal of Hazardous Dye Reactofix Red 3 BFN from Industrial Effluents, **J. Colloid Interface Sci.**, 312(2), 292-296 (2007).
49. V. K. Gupta, A. K. Jain and G. Maheshwari, Novel Aluminum (III) selective potentiometric sensor based on morin in poly (vinyl chloride) matrix, **Talanta** 72(4), 1469-1473 (2007).
50. R. N. Goyal, V. K. Gupta, M. Oyama and Neeta Bachheti, Gold nanoparticles modified indium tin oxide electrode for the simultaneous determination of dopamine and serotonin: Application in pharmaceutical formulations and biological fluids, **Talanta**, 72(3), 976-983 (2007).
51. 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).
52. 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).
53. V. K. Gupta, A. K. Singh, M. Al Khayat and Barkha Gupta, Neutral carriers based polymeric membrane electrodes for selective determination of Mercury (II), **Anal. Chim. Acta**, 590(1), 81-90 (2007).
54. V. K. Gupta, A. Mittal, R. Jain, M. Mathur and S. Sikarwar, Photochemical Degradation of Hazardous Dye - Safaranin-T Using TiO₂ Catalyst, **J. Colloid Interface Sci.**, 309(2), 460-465 (2007).
55. V. K. Gupta, A. K. Jain and G. Maheshwari, Manganese (II) selective PVC based membrane sensor using a Schiff base, **Talanta**, 72(1), 49-53 (2007).
56. V. K. Gupta, R. Jain, and S. Varshney, Removal of Reactofix golden yellow 3 RFN from aqueous solution using wheat husk- an agricultural waste, **J. Haz. Mat.**, 142(1-2), 443-448 (2007).
57. V. K. Gupta, A. K. Jain, Shiva Agarwal and G. Maheshwari, An iron (III) ion-selective sensor based on a μ bis(tridentate) ligand, **Talanta**, 71(5), 1964-1968 (2007).

58. A.K. Singh, V. K. Gupta and Barkha Gupta, Chromium (III) selective membrane sensors based on Schiff bases as chelating ionophores, **Anal. Chim. Acta**, 585(1), 171-178 (2007).
59. R. N. Goyal, V. K. Gupta and Neeta Bachheti, Voltammetric determination of adenosine and guanosine using fullerene-C60-modified glassy carbon electrode, **Talanta**, 71(3), 1110-1117 (2007).
60. V. K. Gupta, R. Jain and S. Varshney, Removal of Reactofix Navy Blue 2 GFN from Aqueous solutions Using Adsorption Techniques, **J. Colloid Interface Sci.**, 307(2), 326-332(2007).
61. V. K. Gupta, A. K. Singh and Barkha Gupta, Schiff Bases as Cadmium (II) selective ionophores in polymeric membrane electrodes **Anal. Chim. Acta**, 583(2), 340-348(2007).
62. V. K. Gupta, R. N. Goyal, Shiva Agarwal, P. Kumar and Neeta Bachheti, Nickel (II)-selective sensor based on dibenzo-18-crown-6 in PVC matrix, **Talanta** 71(2), 795-800(2007).
63. V. K. Gupta, A. K. Jain and G. Maheshwari, Pb(II) Selective sensor based on N, N' - bis(2-hydroxy-1-naphthalene)-2,6-pyridiamine in (Polyvinyl) chloride matrix, **Int. J. Electrochem. Sci.**, 2, 102-112 (2007).
64. I. Ali, H. Y. Aboul-Enein and V.K. Gupta, Analysis of Melatonin in Dosage Formulation by Capillary Electrophoresis, **J. Liq. Chromatogr. Related Technologies**, 30, 545-556 (2007).
65. 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).
66. I. Ali and V. K. Gupta, Advances in Water Treatment by Adsorption Technology, **Nature Protocols**, 1(6), 2661 - 2667 (2006).
67. V. K. Gupta, A. K. Jain and G. Maheshwari, A New Zn²⁺ selective potentiometric sensor based on dithizone in PVC matrix, **Chemia Analityczna-Chemical analysis**, 51(6), 889-897 (2006).
68. V.K.Gupta, A. K. Jain and P. Kumar, PVC-based membranes of N, N'-dibenzyl-1, 4,10,13-tetraoxa-7, 16-diazacyclooctadecane as Pb(II)-selective sensor, **Sens. Actuat. B**, 120(1), 259-265(2006).
69. V. K. Gupta, A. Mittal, L. Kurup and J. Mittal, Adsorption of a Hazardous Dye - Erythrosine over Hen Feathers, **J. Colloid Interface Sci.**, 304(1), 52-57(2006).

70. A. K. Jain, V. K. Gupta and J. R. Raison, Anion recognition using newly synthesized hydrogen bonding diamide receptor: PVC based sensor for carbonate, **Electrochim. Acta** 52(3), 951-957(2006).
71. V. K. Gupta, A. Mittal, R. Jain, M. Mathur and S. Sikarwar, Adsorption of Safranin-T from Wastewater Using Waste Materials - Activated Carbon and Activated Rice Husk, **J. Colloid Interface Sci.**, 303(1), 80-86(2006).
72. V.K.Gupta, A. K. Jain and P. Kumar, PVC based membranes of dicyclohexano-24-crown-8 as Cd(II)-selective sensor, **Electrochim. Acta**, 52(2), 736-741(2006).
73. I. Ali, H.Y. Aboul-Enein and V.K. Gupta, Precision in Capillary Electrophoresis, **Anal. Lett.**,39(11), 2345 - 2357 (2006).
74. V. K. Gupta, A. K. Singh and Barkha Gupta, A Cerium (III) selective poly vinyl chloride membrane based on a Schiff base complex of N, N-Bis [2-(salicylideneamino)ethyl] ethane-1, 2-diamine, **Anal. Chim. Acta**, 575(2), 198-204, 2006.
75. V. K. Gupta, A. K. Jain, G. Maheshwari, and H. Lang, Copper (II)-selective potentiometric sensor based on Porphyrins in PVC matrix, **Sens. Actuat. B** 117(1), 99-106(2006).
76. V.K. Gupta and Imran Ali, Removal of 2, 4-dinitrophenol from wastewater by adsorption technology: a batch and column study, **International Journal of Environment and Pollution**, 27(1-3), 104-120(2006).
77. V.K. Gupta, V.K. Saini, Imran Ali and H.Y. Aboul-Enein, Analysis of phenols in wastewater using capillary electrophoresis and solid phase extraction, **International Journal of Environment and Pollution**, 27(1-3), 95-103(2006).
78. V.K. Gupta and Imran Ali, Analysis of atrazine and its degradation products in loamy soil by SPE and HPLC, **International Journal of Environment and Pollution**, 27(1-3), 204-210 (2006).
79. V. K. Gupta, R. N. Goyal, M. A. Khayat, P. Kumar and N. Bachheti, A New Zn (II)-Selective Potentiometric Sensor Based on 4-tert-Butylcalix [4] arene in PVC Matrix, **Talanta**, 69(5), 1149-1155 (2006).
80. V. K. Gupta, I. Ali, Suhas and V. K. Saini, Adsorption of 2,4-d and carbofuran pesticides using fertilizer and steel industry wastes, **J. Colloid Interface Sci.**, 299(2), 556-563 (2006).
81. A.K. Jain, V.K. Gupta and J.R. Raison, A newly synthesized macrocyclic dithioamide receptor for phosphate sensing, **Talanta**, 69(4), 1007-1012, (2006).

82. V. K. Gupta, D. Mohan and V. K. Saini, Adsorption studies on the interaction of some azo dyes (naphthol red-J and direct orange) with nontronite mineral, **J. Colloid Interface Sci.**, 298(1), 79-86 (2006).
83. V. K. Gupta, A. K. Singh, S. Mehtab and Barkha Gupta, A Cobalt (II) selective PVC membrane based on a Schiff base complex of N, N'-bis (salicylidene)-3,4-diaminotoluene, **Anal. Chim. Acta**, 566(1), 5-10(2006).
84. V. K. Gupta, S. Agarwal, A. Jakob and H. Lang, Zinc-selective electrode based on N, N'-bis(acetylaceton) ethylenediimine, **Sens. Actuat. B**, 114(2), 812-818 (2006).
85. V. K. Gupta, Arshi Rastogi, V. K. Saini and Neeraj Jain, Biosorption of copper (II) from aqueous solutions by algae spirogyra species, **J. Colloid Interface Sci.**, 296(1), 53-60(2006).
86. A.K. Jain, V.K. Gupta, S. Radi, L.P. Singh and J.R. Raisonni, A comparative study of Pb²⁺ sensors based on derivatized tetrapyrazole and calix[4]arene receptors, **Electrochimica Acta**, 51(12), 2547-2553(2006).
87. V. K. Gupta, A. Mittal, L. Krishnan and Jyoti Mittal, Removal and Recovery of the Hazardous Azo Dye, Acid Orange 7 through Adsorption over Waste Materials - Bottom Ash and De-Oiled Soya, **Ind. Engg. Chem. Res.**, 45, 1446-1453(2006).
88. V. K. Gupta, Suhas, D. Mohan and K. P. Singh, Removal of 2-aminophenol from wastewater using novel adsorbents **Ind. Engg. Chem. Res.**, 45, 1113-1122(2006).
89. I. Ali, V.K. Gupta, P. Singh and H.V. Pant, Screening of Domperidone in Wastewater by High Performance Liquid Chromatography and Solid Phase Extraction Methods, **Talanta** 68(3), 928-931(2006).
90. V. K. Gupta, A. K. Jain, Pankaj Kumar S. Agarwal and G. Maheshwari, Chromium (III)-selective sensor based on tri-o-thymotide in PVC matrix, **Sens. Actuat. B**, 113 (1), 182-186 (2006).
91. R. N. Goyal, V.K.Gupta, Aditi Sangal and N. Bachheti, Differential pulse Voltammetric determination of atenolol in pharmaceutical formulations and urine using nanogold modified Indium Tin Oxide (ITO) electrode, **Electrochemistry Communications**, 8(1), 65-70(2006).
92. V. K. Gupta, A. Mittal, L. Krishnan and J. Mittal, Adsorption Treatment and Recovery of the Hazardous Dye, Brilliant Blue FCF, Over Bottom Ash and De-Oiled Soya, **J. Colloid Interface Sci.**, 293(1), 16-26(2006).
93. R. N. Goyal, V. K. Gupta, Aditi Sangal and N. Bachheti, Voltammetric determination of uric acid at a fullerene -C60-modified glassy carbon electrode, **Electroanalysis**, 17 (24), 2217-2223, (2005).

94. A. K. Jain, V. K. Gupta, and J. R. Raison, Ni(II)-selective ion sensors of salen type Schiff base chelates, **Anal. Chim. Acta**, 553(1-2). 177-184(2005).
95. V.K. Gupta, R.N. Goyal, N. Bachheti, L. P. Singh, S. Agarwal, A copper-selective electrode based on bis(acetylaceton)propylenediimine, **Talanta**, 68(2), 193-197(2005).
96. I. Ali, V. K. Gupta, P. Singh and H.V. Pant, Analysis of Haloperidol and its Metabolites in Wastewater by Using RP-TLC and Solid Phase Extraction, **J. Planer Chromatogr.**, 18,388-390(2005).
97. V. K. Gupta, V. K. Saini and Neeraj Jain, Adsorption of As (III) from aqueous solutions by iron-oxide coated sand, **J. Colloid Interface Sci.**, 288(1), 55-60(2005).
98. R. N. Goyal, V. K. Gupta, M. Oyama and Neeta Bachheti, Differential Pulse Voltammetric Determination of Paracetamol at nanogold modified Indium Tin Oxide (ITO) electrode, **Electrochemistry Communications**, 7(8), 803-807(2005).
99. V. K. Gupta, S. Chandra, S. Agarwal and H. Lang, Lithium selective potentiometric sensor based on a new second generation carbosiloxane dendrimer, **Sens. Actuat. B**, 107(2), 762-767 (2005).
100. A. K. Jain, V. K. Gupta, L. P. Singh and J. R. Raison, Chelating ionophore based membrane sensors for copper (II) ions, **Talanta** 66(5) 1353-1359 (2005).
101. V. K. Gupta, S. Chandra and H. Lang, A highly selective mercury electrode based on a diamine donor ligand, **Talanta**, 66(3), 575-580(2005).
102. V. K. Gupta, I. Ali, V. K. Saini, Tom Van Gerven, Bart Van der Bruggen and Carlo Vandecasteele, Removal of dyes from wastewater using bottom ash, **Ind. Engg. Chem. Res.**, 44(11), 3655-3664(2005).
103. V. K. Gupta, A. Mittal, L. Krishnan and V. Gajbe, Removal and recovery of malachite green from wastewater using an agricultural waste material, de-oiled soya, **Sep. Purif. Technol.**, 43(2), 125-133(2005).
104. V. K. Gupta, R. Ludwig and S. Agarwal, Anion recognition through modified calixarenes; a highly selective sensor for monohydrogen phosphate, **Anal. Chim. Acta**, 538(1-2), 213-218(2005).
105. V. K. Gupta, R. Ludwig and S. Agarwal, Strontium (II) Sensor Based on a Modified Calix[6]arene in PVC Matrix, **Anal. Sci.**, 21(3), 293-296(2005).
106. V. K. Gupta, M. A. Khayat, A. K. Minocha and P. Kumar Zinc (II) - selective sensors based on dibenzo-24-crown-8 in PVC matrix. **Anal. Chim. Acta**, 532(2), 153-158 (2005).

107. V. K. Gupta, Potentiometric sensors for heavy metals- an overview, **Chimia**, 59,209-217(2005).
108. 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).
109. V. K. Gupta, A. Mittal and V. Gajbe, Adsorption and desorption studies of a water Soluble dye, quinoline yellow, using waste materials, **J. Colloid Interface Sci.**, 284(1), 89-98(2005).
110. V.K.Gupta, P. Singh and N. Rahman, Synthesis, characterization and analytical application of Zirconium (IV) seleniodate: a new cation exchanger, **Anal. Bioanal. Chem.**, 381(2), 471-476(2005).
111. V. K. Gupta, A. Mittal and L. Krishnan, Use of waste materials, bottom ash and de-oiled soya, as potential adsorbents for the removal of amaranth from aqueous solutions, **J. Hazardous Materials**, 117(2-3),171-178 (2005).
112. V. K. Gupta and Shiva Agarwal, PVC based 5,10,15,20-tetrakis (4-methoxyphenyl) porphyrinatocobalt (II) membrane potentiometric sensor for arsenite, **Talanta**, 65(3),730-734(2005).
113. A. K. Jain, V. K. Gupta, L. P. Singh, P. Srivastava and J. R. Raison, Anion recognition through novel C-thiophenecalix[4]resorcinarene: PVC based sensor for chromate ions. **Talanta**, 65(3), 716-721(2005).
114. A. Kumar, R. Prasad and V. K. Gupta, Fabrication of PVC Based Membrane Using Nickel Porphyrazine as Ionophore in the Screening of Thiocyanate Ion in Aqueous and Real Samples, **Combinatorial Chemistry & High Throughput Screening**, 7(4), 367-374 (2004)
115. R. Buschbeck, S. Mecklenburg, B. Luhmann, V. K. Gupta, and H. Lang, Tri(ethylene glycol)- and poly(ethylene glycol) ether end-grafted carbosiloxane and carbosilane dendrimers: synthesis and reaction behavior, **Synthesis**, 16, 2727-2735(2004)
116. A. K. Jain, V. K. Gupta, and J. R. Raison, Strontium (II) selective potentiometric sensor based on ester derivative of 4-tert-butylcalix(8)arene in PVC matrix, **Sensors**, 4, 115-124(2004).
117. V. K. Gupta, A. Mittal, L. Krishnan and V.Gajbe, Adsorption kinetics and column operations for the removal and recovery of malachite green from wastewater using bottom ash, **Sep. Purf. Technol.**, 40, 87-96 (2004).
118. V.K.Gupta, I. Ali and V. K. Saini, Removal of chlorophenols from wastewater using red mud: an aluminum industry waste, **Environ. Sci. Technol.**, 38, 4012 – 4018 (2004).

119. V.K.Gupta, I. Ali and Suhas, Removal of rhodamine B, fast green and methylene blue from wastewater using red mud – an aluminum industry waste, **Ind. Engg. Chem.Res.**, 43, 1740-1747(2004).
120. R. Buschbeck, H. Lang Shiva Agarwal, V. K. Saini, V. K. Gupta, Carbosilane dendrimers with end-grafted silacrown- and crown-ether units, **Synthesis**,(8),1243-1248(2004).
121. V.K.Gupta, H. Lang, S. Chandra and S. Agarwal, PVC based electrochemical sensor for cobalt (II) determination, **Proc. Indian Nat. Sci. Acad.**, 70A(3), 399 - 406(2004).
122. V.K.Gupta, P. Singh and N. Rahman, Adsorption behavior of Hg (II), Pb (II) and Cd (II) from aqueous solution on duolite C-433: a synthetic resin, **J. Colloid Interface Sci.**, 275(2), 398-402, (2004).
123. V. K. Gupta, R. Prasad and Azad Kumar, Magnesium-tetraazaporphyrin incorporated PVC matrix as a new material for fabrication of Mg^{2+} selective potentiometric sensor, **Talanta**, 63(4), 1027-1033(2004).
124. V. K. Gupta, and I. Ali, Removal of lead and chromium from wastewater using bagasse fly ash - a sugar industry waste, **J. Colloid Interface Sci.**, 271, 321-328 (2004).
125. R. Prasad, V. K. Gupta and Azad Kumar, Metallo-tetraazaporphyrin based anion sensors: Regulation of sensor characteristics through central metal ion coordination, **Anal. Chim. Acta** , 508(1), 61-70 (2004).
126. A.K.Jain, V.K.Gupta, Shubhi Jain, and Suhas, Removal of chlorophenols using industrial wastes, **Environ. Sci. Technol.**, 38, 1195-1200 (2004).
127. V.K. Gupta, and S. Sharma, Removal of zinc from aqueous solutions using bagasse fly ash - a low cost adsorbent, **Ind. Engg.Chem.Res.**, 42(25), 6619 - 6624 (2003).
128. V.K. Gupta, I. Ali, Suhas and Dinesh Mohan, Equilibrium Uptake and Sorption Dynamics for the Removal of a Basic Dye (Basic Red) Using Low Cost Adsorbents, **J. Colloid Interface Sci.** 265(2), 257-264 (2003).
129. V.K.Gupta, D.K.Chauhan, V.K.Saini, Shiva Agarwal, M. Antonijevic and H. Lang, A Porphyrin Based Potentiometric Sensor for Zn^{2+} Determination, **Sensors**, 3, 223-235 (2003).
130. V.K. Gupta, C. K. Jain, I. Ali, M. Sharma and V.K.Saini, Removal of cadmium and nickel from wastewater using bagasse fly ash - a sugar industry waste, **Water Res.** 37(16), 4038-4044(2003).

131. 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).
132. V. K. Gupta, I. Ali, and H.Y. Aboul-Enein, Chirality: A challenge for the Environmental Scientists, **Current Science**, 84(2), 152-156 (2003).
133. A.K.Jain, V.K.Gupta, A. Bhatnagar, and Suhas, Utilization of Industrial Waste Products as Adsorbents for the Removal of Dyes, **J. Haz. Mat.**, 101, 31-42(2003).
134. V. K. Gupta, R. Prasad and A. Kumar, Cu (II) selective sensor based on 5,7,12,14-tetramethyldibenzo [b, i]-1,4,8,11-tetraazacyclotetradecane in PVC matrix, **J. Appl. Electrochem.**, 33, 381-386 (2003).
135. V. K. Gupta, R. Prasad and A. Kumar, Preparation of ethambutol-copper (II) complex and fabrication of PVC based membrane potentiometric sensor for copper, **Talanta**, 60,149-160 (2003).
136. V.K Gupta, S. Jain and S. Chandra, Chemical Sensor for Lanthanum (III) Determination using Aza Crown as Ionophore in Poly (vinyl chloride) matrix, **Anal. Chim. Acta** , 486(2), 199-207(2003).
137. V. K Gupta, S. Chandra, S. Agarwal and H. Lang, Mercury selective electrochemical sensor based on a double armed crown ether as ionophore, **Indian J. Chem.** 42A, 813-818 (2003).
138. A.K.Jain, V.K. Gupta, A. Bhatnagar and Suhas, A comparative study of adsorbents prepared from industrial wastes for removal of dyes. **Sep. Sci. Technol.** 38(2), 463-481(2003).
139. A. K. Jain, V. K. Gupta, A. Bhatnagar, Shubhi Jain and Suhas, A comparative Assessment of adsorbents prepared from industrial wastes for the removal of cationic dye, **J. Indian Chem. Soc.**, 80, 267-270 (2003).
140. V. K. Gupta, R. Prasad and A. Kumar, Dibenzocyclamnickel (II) as Ionophore in PVC-matrix for Ni²⁺-Selective Sensor, **Sensors**, 2, 384-396(2002).
141. V. K. Gupta, C.K. Jain, I .Ali, S. Chandra and S. Agarwal, Removal of lindane and malathion from wastewater using bagasse fly ash – a sugar industry waste, **Water Res.**, 36(10), 2483-2490 (2002).
142. V. K.Gupta, M.M. Antonijevic, S.Chandra and S.Agarwal, Polystyrene Based Silver Selective Electrodes, **Sensors**, 2, 233 – 243 (2002).
143. V.K.Gupta, S. Chandra and Rajni Mangla, Magnesium Selective Electrodes, **Sens. Actuators B**, 86(2-3), 235-241 (2002).

144. V.K.Gupta and S. Sharma, Removal of Cadmium and Zinc from aqueous solutions using red mud, **Environ. Sci. Technol.**, 36 (16), 3612 – 3617 (2002).
145. V.K.Gupta, S. Chandra, D. K. Chauhan and Rajni Mangla, Membranes of 5,10,15,20-tetrakis (4-methoxyphenyl)porphyrinatocobalt(TMOPP-Co) (I) as MoO_4^{2-} -selective Sensors, **Sensors**, 2,164-173(2002).
146. V.K.Gupta, S.Chandra and Rajni Mangla, Dicyclohexano-18-crown-6 as active material in PVC matrix membrane for the fabrication of cadmium selective potentiometric sensor, **Electrochim. Acta**, 47, 1579 – 1586 (2002).
147. V.K.Gupta, Rajni Mangla and S. Agarwal, Pb (II) selective potentiometric sensor based on 4-tert-Butylcalix [4] arene in PVC matrix, **Electroanalysis**, 14, 1127- 1132 (2002).
148. V. K. Gupta, A. K. Srivastava and N. Jain, Biosorption of chromium (VI) from aqueous solutions by green algae Spirogyra species, **Water Res.**, 35,4079-4085(2001).
149. V. K. Gupta, Monika Gupta and S. Sharma, Process development for the removal of lead and chromium from aqueous solutions using red mud-an aluminum industry waste, **Water Res.**, 35(5), 1125-1134 (2001).
150. V.K.Gupta, A.K. Minocha, and N.Jain, Batch and continuous studies on treatment of pulp mill wastewater by Aeromonas formicans **J. Chem. Tech. Biotech.**, 76, 547-552 (2001).
151. V. K. Gupta, A. Kumar and R. Mangla, Protoporphyrin IX dimethyl ester as active material in PVC matrix.membranes for the fabrication of Zinc (II) selective sensor, **Sens. Actuators B**, 76, 617-623 (2001).
152. V. K. Gupta, A. K. Jain, Rajni Mangla and P. Kumar, A New Zn^{2+} Selective Sensor based on 5,10,15,20-tetraphenyl-21H, 23H-porphine in PVC Matrix, **Electroanalysis**, 13(12), 1036-1040 (2001).
153. D. Mohan, V. K. Gupta, S. K Srivastava and S. Chander, Kinetics of mercury adsorption from wastewater using activated carbon derived from fertilizer waste, **Colloids and Surfaces A**, 177, 169-181 (2001).
154. V. K. Gupta and I. Ali, Removal of DDD and DDE from wastewater using bagasse fly ash, a sugar industry waste, **Water Res.**, 35(1), 33-40 (2001).
155. V. K. Gupta and I. Ali, Utilization of bagasse fly ash (a sugar industry waste) for the removal of copper and zinc from wastewater, **Sep. Purif. Technol.**, 18(2), 131-140 (2000).
156. V. K. Gupta, S. K. Srivastava and R. Tyagi, Design parameters for the treatment of phenolic waste by carbon columns (obtained from fertilizer waste material), **Water Res.**, 34(5), 1543-1550 (2000).

157. V. K. Gupta, R. Mangla, and P. Kumar, PVC Based Monoaza-18-Crown-6 Membrane Potentiometric Sensor for Cadmium, **Electroanalysis**, 12(9), 752 - 756(2000).
158. V. K. Gupta, D. Mohan, S. Sharma and Monica Sharma, Removal of basic dyes (Rhodamine-B and Methylene blue) from aqueous solutions using bagasse fly ash, **Sep. Sci. Technol**, 35(13), 2097-2113 (2000).
159. V. K. Gupta, R. Prasad, R. Mangla, and P. Kumar, New nickel (II) selective potentiometric sensor based on 5,7,12,14-tetramethyldibenzotetraazaannulene in a poly (vinyl chloride) matrix, **Anal. Chim. Acta**, 420(1), 19–27 (2000).
160. V. K. Gupta, A. K. Jain, L. P. Singh, U. Khurana and P. Kumar, Molybdate Sensor based on 5,10,15,20-tetraphenylporphyrinatocobalt Complex in PVC matrix, **Anal. Chim. Acta**. 379(1-2), 201-208 (1999).
161. V. K. Gupta, A. K. Jain, L. P. Singh and U. Khurana, PVC Based Neutral Carrier and Organic Exchanger Membranes as Sensors for the Determination of Ba²⁺ and Sr²⁺, **Sens. Actuators B**, 55, 201-211 (1999).
162. V. K. Gupta, A PVC Based 12-Crown-4 Membrane Potentiometric Sensor for Zinc (II) Ions, **Sens. Actuators B**, 55, 195-200 (1999).
163. V. K. Gupta and P. Kumar, Cadmium (II) - selective sensors based on dibenzo-24-crown-8 in PVC matrix, **Anal. Chim. Acta**, 389, 205-212 (1999)
164. V. K. Gupta, D. Mohan, S. Sharma and K. T. Park, Removal of Chromium (VI) from Electroplating Industry Wastewater Using Bagasse fly ash - A sugar Industry waste material, **The Environmentalist**, 19(2), 129-136 (1999).
165. V. K. Gupta, R. Mangla, U. Khurana and P. Kumar, Determination of uranyl Ions using Poly (Vinyl Chloride) based 4-tert-butylcalix [6] arene membrane sensor, **Electroanalysis**, 11(8), 573-576 (1999).
166. V. K. Gupta, Equilibrium uptake, sorption dynamics, process development and column operations for the removal of copper and nickel from aqueous solution and wastewater using activated slag-a low cost adsorbent, **Ind. Engg. Chem. Res. (ACS)**, 37, 192-202 (1998).
167. V. K. Gupta, S. Sharma, I. S. Yadava and D. Mohan, Utilization of Bagasse fly ash generated in sugar industry for the removal and recovery of phenol and p-nitrophenol from wastewater, **J. Chem. Tech. Biotech.**, 71, 180-186 (1998).
168. V. K. Gupta, A. K. Jain, L. P. Singh and U. Khurana, Zn²⁺ sensor based on Zn-bis (2,4,4-trimethylpentyl) dithiophosphinic acid complex in PVC matrix, **Electrochim. Acta**, 43, 2047-2052 (1998).

169. A. K. Jain V. K. Gupta, L. P. Singh and U. Khurana, Novel PVC-based membrane sensors selective for vanadyl ions, **Talanta**, 46, 1453-1460 (1998).
170. V. K. Gupta, D. Mohan and S. Sharma, Removal of lead from wastewater using bagasse fly ash-a sugar industry waste material, **Sep. Sci. Technol.**, 33(9), 1331- 1343(1998).
171. V. K. Gupta and I. Ali, Determination of stability constants of Fe (II), Co (II) and Cu (II) nitrilotriacetate-Penicillamine mixed complexes by Electrophoresis, **Talanta**, 46,197-201 (1998).
172. V. K. Gupta and I. Ali, Ag (I) catalyzed oxidation of 2-carboxy phenyl acetic acid by peroxydisulphate ion, **Oxidation Communications**, 21, 195 - 199(1998).
173. S. K. Srivastava, V. K.Gupta and D. Mohan, Removal of lead and chromium by activated slag - A blast-furnace waste, **J. Environ. Engg. (ASCE)**, 123, 461-468 (1997).
174. V. K. Gupta, S. Jain and U. Khurana, A PVC Based Pentathia-15-Crown-5 Membrane Potentiometric Sensor for Mercury (II), **Electroanalysis**, 9, 478 - 480(1997).
175. V. K. Gupta, S. K. Srivastava and D. Mohan, Equilibrium uptake, Sorption Dynamics, Process Optimization and Column Operations for the Removal and Recovery of Malachite Green from wastewater using Activated Carbon and Activated Slag, **Ind. Engg. Chem. Res. (ACS)**, 36, 2207-2218 (1997).
176. A. K. Jain, V. K. Gupta, L. P. Singh and U. Khurana, Macrocyclic based Membrane Sensors for the determination of Cobalt (II) ions, **Analyst**, 122, 583-586 (1997).
177. A. K. Jain, V. K. Gupta, R. D. Singh, U. Khurana and L. P. Singh, Nickel (II)-Selective Sensors based on Heterogeneous Membranes of Macrocyclic Compounds, **Sensors and Actuators B**, 40, 15-20 (1997).
178. A. K. Jain, V. K.Gupta, U. Khurana and L. P. Singh, A new membrane Sensor for UO^{2+} , based on 2-Hydroxyacetophenoneoxime -thioureatrioxane Resin, **Electroanalysis**, 9, 857-860 (1997).
179. V. K. Gupta, A. Rastogi, M. K. Dwivedi and D. Mohan, Process Development for the Removal of Zinc and Cadmium from Wastewater using Slag -A Blast-Furnace Waste Material, **Sep. Sci. Technol.**, 32, 2883-2912 (1997).
180. V. K. Gupta, A. K. Jain, L. P. Singh and U. Khurana, Porphyrins as carrier in PVC based membrane potentiometric sensors for Nickel (II), **Anal. Chim. Acta**, 355, 33-41 (1997).

181. A. K. Jain, V. K. Gupta, L. P. Singh and U. Khurana, A new Cerium (IV) Vanadate-Based Solid Membrane Electrode for Bismuth (III), **Electroanalysis**, 9, 1360-1364 (1997).
182. V. K. Gupta, S. K. Srivastava, D. Mohan and S. Sharma, Design Parameters for fixed bed reactors of activated carbon developed from fertilizer waste material for the removal of some heavy metal ions, **Waste Management**, 17, 517-522 (1997).
183. S. K. Srivastava, V. K. Gupta and S. Jain, PVC-Based 2, 2, 2-Cryptand sensors for zinc ions, **Anal. Chem. (ACS)**, 68, 1272-1275 (1996).
184. S. K. Srivastava, V. K. Gupta and S. Jain, A PVC-Based Benzo-15-Crown-5 Membrane Sensor for Cadmium, **Electroanalysis**, 8, 938-940 (1996).
185. S. K. Srivastava, V. K. Gupta and D. Mohan, Kinetic Parameters for the removal of lead and chromium from wastewater using activated Carbon developed from Fertilizer waste material, **Environ. Modell. Assessment**, 1, 281-290 (1996).
186. A. K. Jain, V. K. Gupta and L. P. Singh, A solid membrane sensor for Hg^{2+} ions, **Bull. Electrochem.** 12, 418-420 (1996).
187. S. K. Srivastava, V. K. Gupta, M. K. Dwivedi and S. Jain, Caesium PVC-Crown (dibenzo-24-crown-8) based membrane sensor, **Anal. Proc., (RSC)**, 32, 21-23 (1995).
188. S. K. Srivastava, V. K. Gupta and S. Jain, Determination of lead using poly (vinyl chloride) based crown ether membrane, **Analyst (RSC)**, 120, 495-498 (1995).
189. A. K. Jain, V. K. Gupta, B. B. Sahoo and L. P. Singh, Copper (II)-Selective Electrodes Based on Macrocyclic Compounds, **Anal. Proc., (RSC)**, 32, 99-101 (1995).
190. V. K. Gupta, I. Ali, U. Khurana and N. Dhagrarra, TLC-separation of transition Metal ions and their quantitative estimation by atomic absorption spectroscopy, **J. Liq. Chromatogr.**, 18, 1671-1681 (1995).
191. S. K. Srivastava, V. K. Gupta, Anupam and D. Mohan, Removal of some anionic and cationic detergents using an inorganic gel adsorbent, **Indian J. Chem.**, 34A, 342-350 (1995).
192. A. K. Jain, V. K. Gupta and L. P. Singh, A polystyrene based heterogeneous solid membrane of cerium (IV) selenite as sensor for Hg (II) ions, **Indian J. Chem. Tech.**, 2, 189-192 (1995).

193. A. K. Jain, V. K. Gupta and L. P. Singh, Neutral Carrier and Organic Resin Based Membranes as Sensors for Uranyl ions, **Anal. Proc.(RSC)**, 32, 263-265 (1995).
194. S. K. Srivastava, V. K. Gupta, N. Johri and D. Mohan, Removal of 2,4,6-trinitrophenol using Bagasse fly ash - a Sugar Industry Waste material, **Indian J. Chem. Tech.**, 2, 333-336 (1995).
195. S. K. Srivastava, V. K. Gupta, I. S. Yadava and D. Mohan, Removal of 2,4-dinitrophenol using Bagasse fly ash - A Sugar Industry Waste Material, **Fresenius Envir. Bull.**, 4, 550-557 (1995).
196. S. K. Srivastava, V. K. Gupta, Anupam and D. Mohan, Status of some toxic heavy metal ions in the upper reaches of River Ganges, **J. Indian Chem. Soc.**, 71, 29-34 (1994).
197. S. K. Srivastava, V. K. Gupta, M. K. Dwivedi and S. Jain, Uptake of some heavy metal ions on dibenzo-18-crown-6-immobilized on Heteropolyacids, **Indian J. Chem.**, 33A, 1042-1045 (1994).
198. S. K. Srivastava, V. K. Gupta, B. B. Tiwari and I. Ali, Electrophoretic determination of stability constants of Zn (II) and Cd (II) nitrilotriacetate-Penicillamine mixed complexes, **J. Chromatogr.** 635, 171-175 (1993).
199. S.K. Srivastava, V.K. Gupta and D. Mohan, Interaction of some pyridinol azo dyes with chlorite mineral, **Indian J. Chem.** 32(A), 568-571(1993).
200. S. K. Srivastava, V. K. Gupta, D. Mohan and N. Pant, Removal of COD from reclaimed Rubber Factory effluents by using the activated carbon (Developed from fertilizer waste material) and activated slag (Developed from blast Furnace waste material) - A case study, **Fresenius Envir. Bull.**, 2, 394 -401(1993).
201. V. K. Gupta, R. N. Goyal and A. Mittal, Chemical and Electrochemical oxidation of sulphathiazole: Comparative Study, **Oxidation Communications**, 16, 276-288 (1993).
202. A. K. Jain, V. K. Gupta, A. Kumar and P. Singh, Base catalysed aromatic nucleophilic substitution reactions of some O-aryl oximes with piperidine and morpholine in benzene, **Indian J. Chem.**, 31B, 690-692 (1992).
203. V. K. Gupta, A. Kumar and R. Gupta, Kinetics and Mechanism of Ag(I) Catalysed oxidation of methylethylether and anisole by peroxodisulphate ion, **Revue Roumaine de Chimie** 37, 217-223 (1992).
204. A. K. Jain, V. K. Gupta, P. Singh and A. Kumar, Kinetic studies on the aminolysis of O-(2,4-dinitrophenyl)-cyclopentanone oxime in benzene, **React. Kinet. Catal. Lett.**, 43, 117-125 (1991).

205. V. K. Gupta, A. Kumar and P. Singh, Kinetics and mechanism of complex formation between octacyanomolybdate and titanium (IV), **Proc. Indian. Nat. Sci. Acad.**, 57A, 485-491 (1991).
206. V. K. Gupta, I. Ali and A. Joshi, TLC separation of some synthetic dyes on silica gel layers impregnated with nickel (II) ion, **J. Indian Chem. Soc.**, 68, 311-312 (1991).
207. A. K. Jain, V. K. Gupta and A. Kumar, Aromatic nucleophilic substitution reactions of oxime ethers with aliphatic primary and secondary amines in benzene, **J. Chem. Soc. Perkin Trans.**, 2, 11-15 (1990).
208. S. P. Srivastava, V. K. Gupta and A. Kumar, Ag (I) catalysed oxidation of methylethylether, tetrahydrofuran and anisole by peroxydisulphate ion, **Proc. Indian Nat. Sci. Acad.**, 56A, 183-190 (1990).
209. A. K. Jain, V. K. Gupta and A. Kumar, Base catalysed aromatic nucleophilic substitution reactions of O-aryl oximes with pyrrolidine in non-polar aprotic, dipolar aprotic and protic solvents, **J. Chem. Soc. Perkin Trans.** 2, 1533-1537 (1990).
210. V. K. Gupta, R. N. Goyal and A. Mittal, Voltametric behaviour of 2-amino-5-methyl-1, 3, 4-thiadiazole at a pyrolytic graphite electrode, **J. Chem. Soc. Perkin Trans.** 2, 1845-1849 (1990).
211. V. K. Gupta, A. K. Jain and R. Gupta, Kinetics and mechanism of oxidation of sulphacetamide by sodium periodate, **Oxid. Communications**, 13, 55-61 (1990).
212. V. K. Gupta, A. K. Jain and R. Gupta, Mechanism of oxidation of sulphadiazine with sodium periodate, **Oxid. Communications**, 13 (2), 150-158 (1990).
213. V. K. Gupta, S. Pal, A. Kumar, R. Gupta and N. Jain, Thermodynamic and related studies of the oxidation of p-aminobenzoic acid, sulphanylic acid and anthranilic acid by periodate, **Thermochimica Acta**, 140, 197-202 (1989).
214. V. K. Gupta, Thermodynamic and LFER studies for the Ag(I) catalysed oxidation of phenols by peroxydisulphate ion in acetone-water medium, **Z. Physik. Chemie. Leipzig**, 270, 297-304 (1989).
215. W. U. Malik, S. P. Srivastava, V. K. Gupta and R. Gupta, Kinetics and mechanism of the complex formation between hexacyanoferrate (II) and Chromium (III), **Proc. Indian. Nat. Sci. Acad.**, 55A, 864-870 (1989).
216. A. K. Jain, V. K. Gupta and R. Gupta, Thermodynamic and related studies for the oxidation of sulphadiazine by periodate, **Thermochimica Acta**, 155, 77-85 (1989).

217. A.K. Jain, V.K. Gupta and A. Kumar, Effect of size of non-conjugated oxime moiety on the kinetics of aminolysis of oxime ether, **React. Kinet. Catal. Lett.**, 40, 125-130 (1989).
218. A.K. Jain, V.K.Gupta, R. Gupta and A.Kumar, TLC separation of some sulfa drugs on pyridinium tungstoarsenate impregnated layers, **J. Planer Chromatogr.**, 1, 367-368 (1988).
219. S.P. Srivastava, K.Gupta, V.K.Gupta and A. Maheshwari, Synthesis and study of sulphaguanidine complexes of Fe (II), Cu (II), Cd (II), V (IV), Pb (II), Se (IV) and Mo (VI), **Synth. React. Inorg. Met. Org. Chem.**, 17, 801-809 (1987).
220. V.K.Gupta, Thermodynamic and LFER studies for the oxidation of anilines by peroxydisulphate ion in acetic acid-water medium, **Z. Physik. Chemie. Leipzig**, 267, 204-210 (1986).
221. V.K.Gupta, Thin Layer chromatographic separation of closely related dyes, **J. Liquid Chromatogr.** 9, 3489-3493 (1986).
222. V. K. Gupta, Kinetics and mechanism of oxidation of p-substituted anilines by peroxydisulphate ion in acetic acid-water medium, **React. Kinet. Catal. Lett.**, 27, 207-211 (1985).
223. S.P.Srivastava and V.K.Gupta, Kinetics of Ag(I) catalysed oxidation of dioxane by peroxydisulphate, **React. Kinet. Catal. Lett.**, 24, 167-172 (1984).
224. W.U.Malik S. P.Srivastava and V.K.Gupta, Kinetics and mechanism of the complex formation between hexacyanoferrate (II) and Mo (VI), **Proc. Indian Nat. Sci. Acad.**, 50A, 63-68 (1984).
225. V.K.Gupta, Kinetics and mechanism of oxidation of aromatic amines by peroxydisulphate ion. Oxidation of 3-chloro-4-methylaniline, **Oxidation Communications**, 7, 35-47 (1984).
226. V.K.Gupta, R.Bhushan, M .C. Jain R.D. Kaushik and S. P.Srivastava, Kinetics and mechanism of oxidation of aromatic amines by periodate ion. Oxidation of aniline and N, N-dimethylaniline, **Oxidation Communications**, 7, 409-423 (1984).
227. S.P.Srivastava, Kamlesh and V.K.Gupta, Thin layer chromatographic separation of some inorganic ions on sulfa drugs impregnated layers, **J. Liquid chromatogr.**, 6, 145-153 (1983).
228. W.U.Malik, S. P.Srivastava and V.K.Gupta, Kinetics and mechanism of reaction of Cr (III) with metal cyanides-III-complex formation with octacyanotungstate (IV), **Acta Chim. Hungarica**, 112, 5-10 (1983).
229. V.K.Gupta, Thermodynamic and LFER studies for the oxidation of sulpha drugs by the peroxydisulphate ion, **Thermochimica Acta**, 69, 389-396 (1983).

230. S.P.Srivastava and V.K.Gupta, Thermodynamic and LFER studies for the oxidation of anilines by the periodate ion, **Thermochimica Acta**, 68, 27-33 (1983).
231. V.K.Gupta and S. P.Srivastava, Identification of phenols on the basis of absorption maxima of coloured products formed in the Ag^+ catalyzed oxidation by peroxydisulphate ion, **J. Indian Chem. Soc.**, 60, 594-595 (1983).
232. V.K.Gupta and S. P.Srivastava, Kinetics and mechanism of oxidation of aromatic amines by peroxydisulphate ion. Oxidation of 4-chloro-2-methylaniline, **Oxidation Communications**, 4, 75-82 (1983).
233. S. P.Srivastava and V.K.Gupta, Kinetics and mechanism of oxidation of o-xyldine by periodate in acetic acid-water medium, **Oxidation Communications**, 5, 475-487 (1983).
234. W.U.Malik, S.P.Srivastava and V.K.Gupta, Kinetics and mechanism of reactions Cr (III) with metal cyanides-II-complex formation with octacyanomolybdate (IV), **Acta. Chim. Acad. Sci. Hung. Tomus**, 109, 345-353 (1982).
235. S.P.Srivastava, A. Kumar and V.K.Gupta, Kinetics and mechanism of Ag(I) catalysed oxidation of Hexane-1,6-diol by peroxydisulphate ion, **Revue Roumaine De Chemie**, 26, 939-946 (1981).
236. S.P.Srivastava, A.K.Mittal and V.K.Gupta, Kinetics and mechanism of oxidation of sulphanilamide, sodium sulphacetamide, sulphasomidine, sulphaguanidine, sulphadiazine, sulphapyridine and sulphamethiazole by peroxydisulphate ion, **Indian J. Chem.**, 20A, 806-809 (1981).
237. S.P.Srivastava, A.K. Mittal and V.K. Gupta, Kinetics and mechanism of oxidation of sulphasomidine by peroxydisulphate ion, **React. Kinet. Catal. Lett.**, 17, 359-365 (1981).
238. S.P.Srivastava and V.K.Gupta, Kinetics and mechanism of oxidation of sulphaguanidine by peroxydisulphate ion, **React. Kinet. Catal. Lett.**, 18, 415-420 (1981).
239. S.P.Srivastava and V.K.Gupta, Kinetics of Ag (I) catalysed oxidation of alicyclic alcohols by peroxydisulphate, **Indian J. Chem.**, 20A, 1221-1223 (1981).
240. S.P. Srivastava and V.K. Gupta, Kinetics and mechanism of oxidation of p-chloroaniline by peroxydisulphate ion in acetic acid-water medium, **Oxidation Communications**, 2, 19-27 (1981).

241. V. K. Gupta and S. P. Srivastava, Isolation and characterization of the oxidation products in the peroxydisulphate ion oxidation of ortho, meta and para-chloroanilines in acetic acid-water medium, **Nat. Acad. Sci. Lett.**, 4, 167-170 (1981).
242. V.K. Gupta A.K. Mittal and S.P. Srivastava, Kinetics and mechanism of oxidation of sulphadiazine by peroxydisulphate ion. Part-II. Oxidation of sulfadiazine, **Oxidation Communications**, 2, 75-82 (1981).
243. S.P. Srivastava, A.K. Mittal and V.K. Gupta, Kinetics and mechanism of oxidation of sulfacetamide by peroxydisulphate ion, **Oxidation Communications**, 2, 83-93 (1981).
244. S.P. Srivastava and V.K. Gupta, Kinetics and mechanism of oxidation of o-chloroaniline by peroxydisulphate ion in acetic acid-water medium, **Oxidation Communications**, 1, 251-260 (1980).
245. S.P. Srivastava, G. Bhattacharjee, V.K. Gupta and S. Pal, Kinetics and mechanism of oxidation of sulfanilic acid by periodate ion in aqueous medium, **React. Kinet. Catal. Lett.**, 13, 231-237 (1980).
246. S.P. Srivastava, G. Bhattacharjee, S. Pal and V.K. Gupta, Kinetics and mechanism of oxidation of p-aminobenzoic acid by periodate ion in aqueous medium, **React. Kinet. Catal. Lett.**, 14, 219-224 (1980).
247. S. P. Srivastava, G. Bhattacharjee, V.K. Gupta and S. Pal, Kinetics and mechanism of non-malabaric oxidation of anthranilic acid by periodate ion in aqueous medium, **Indian. J. Chem.**, 19A, 744-746 (1980).
248. S.P. Srivastava and V.K. Gupta, Kinetics and mechanism of Ag^+ catalyzed oxidation of alcohols by peroxydisulphate ion in aqueous medium, **J. Indian Chem. Soc.**, 57, 797-799 (1980).
249. S.P. Srivastava, A. Kumar, A.K. Mittal and V.K. Gupta, Kinetics and mechanism of Ag^+ catalyzed oxidation of pentane-1, 5-diol by peroxydisulphate ion, **Oxidation Communications**, 1, 265-273 (1980).
250. S.P. Srivastava and V.K. Gupta, Kinetics and mechanism of oxidation of aromatic amines by peroxydisulphate ion in acetic acid-water medium-role of substituents, **Nat. Acad. Sci. Lett.**, 3, 25-28 (1980).
251. V.K. Gupta and S.P. Srivastava, Mechanism of oxidation of aromatic amines by peroxydisulphate ion in acidic medium, **Indian Chem. Manufr.**, 18, 1-5 (1980).

252. S.P.Srivastava, V.K.Dua and V.K.Gupta, Representative chromatographic separations of some metal ions on nitrilotriacetic acid impregnated thin layer plates, **Anal. Lett.**, A 12, 169-174 (1979).
253. S.P.Srivastava and V.K.Gupta, Kinetics and mechanism of oxidation of m-chloroaniline by peroxydisulphate ion in acetic acid-water medium, **Indian J. Chem.**, 18A, 27-30 (1979).
254. V.K.Gupta and S. P.Srivastava, Chromatographic separation of some metal ions on NTA impregnated thin layer plates, **Chromatographia**, 12, 496-497 (1979).
255. S.P.Srivastava, A.K.Shukla and V.K.Gupta, Chromatographic separation of some inorganic ions on silica gel pyridiniumtungstoarsenate impregnated thin layer plates, *Anal. Lett.* A 11, 813-816 (1978).
256. S.P.Srivastava, V.K.Dua, S.Pal and V.K.Gupta, TLC separation of some inorganic ions using nitrilotriacetic acid impregnated plates, **Indian J. Chem.**, 16A, 1114-1115 (1978).
257. S.P.Srivastava, V.K.Dua and V.K.Gupta, Evaluation of first order rate constant for a complex reaction, **Nat. Acad.Sci. Lett.**, 1, 202-204 (1978).
258. S.P.Srivastava, V.K.Dua, S.Pal and V.K.Gupta, TLC separation of some inorganic ions on DCTA impregnated thin layer plates, **Fresenius Z. Anal. Chem.**, 294, 42 (1978).

DETAILS OF ACADEMIC VISITS ABROAD

S. No	From	To	Institute and the Country of Visit	Purpose of Visit
1	04.08.2008	08.08.2008	National University of Singapore, Singapore	Conference
2	26.11.2007	01.12.2007	RMIT University Melbourne, Australia	Conference and Academic Visit
3	01.12.2007	03.12.2007	National University of Singapore, Singapore	Academic Visit
4	17.04.06	21.04.06	National University of Singapore, Singapore	Visit and Lectures
5	08.10.05	16.10.05	University of Reading, Reading, UK	Visit and Lectures
6	01.07.05	31.07.05	Chemnitz Technical University. Chemnitz, Germany	Lectures/Research
7	19.07.05	19.07.05	Institut National Polytechnique de Lorraine, Nancy, France	Lecture
8	18.07.05	20.07.05	University of Aachen, Juelichn campus, Germany	Conference
9	24.04.2005	06.05.2005	Las Vegas, University of Texas at San Antonio and Intel at San Jose USA	Conference, lectures and academic visits
10	15.06.2004	14.07.2004	Chemnitz Technical University. Chemnitz, Germany	DST-DAAD Project and Lecture
11	23.06.2004	24.06.2004	Universite Libre de Bruxelles, Bruxelles	Invited Lecture
12	24.06.2004	25.06.2004	University of Leuven, Leuven, Belgium	Academic discussion
13	06.07.2004	07.07.2004	University of Twente, Enchede, The Netherlands	To Deliver a Lecture
14	15.06.2003	17.06.2003	Int. Symposium on Sensors Science	To Chair a Session
15	17.06.2003	19.06.2003	University of Leuven, Leuven, Belgium	To Deliver a Lecture
16	20.06.2003	09.07.2003	Chemnitz Technical University. Chemnitz, Germany	DST-DAAD Proj
17	15.06.2002	31.07.2002	Chemnitz Technical University. Chemnitz, Germany	DST-DAAD Proj. and DAAD. Visiting Prof.
18	27.06.2002	29.06.2002	CCS, ETH Technopark , Zurick Switzerland	Visit and Lecture
19	02.07.2002	03.07.2002	University of Regensburg, Regensburg, Germany	Academic Visit
20	01.08.2002	30.08.2002	Freie University of Berlin, Berlin, Germany	DAAD visiting Prof.

21	01.12.2001	08.12.2001	Yokohama National Univ., Kyushu Univ. & Huisten-Bosch, Nagasaki, Japan	To deliver invited talk and lectures
22	01.07.2000	07.07.2000	Basel and ETH Zurich, Switzerland	Conference & Academic visit
23	25.08.1996	29.08.1996	Inha University, South Korea	Conference
24	30.08.1996	01.09.1996	University of Hong Kong & Hong Kong Univ. of Science & Technology, Hong Kong	Academic visit
25	01.02.1993	23.07.1993	University of Regensburg, and other Institutes, Germany	EC Post Doc. Fellow
26	30.07.1992	07.08.1992	University of Toronto & University of Kingston, Canada	Conference & Visit of Institutes
27	01.07.1990	08.07.1990	University of Kent, U.K	Visit of Institutes
28	21.08.1988	26.08.1988	University of Regensburg, Germany.	Conference & Visit of Institutes
29	24.08.1986	29.08.1986	Tokyo Institute of Technology, Tokyo, Japan.	Conference & Visit of Institutes
30	30.08.1986	06.09.1986	Ohio State Univ., Columbus, U.S.A.	Lecture & Visit of University
31	17.08.1984	19.08.1984	Univ. of Western Australia, Perth, Australia	Visit of Institutes & Lectures
32	20.08.1984	25.08.1984	Univ. of Auckland, New Zealand	Conf. & visit of Institutes
33	17.08.1982	25.08.1982	Central Research Institute for Chemistry, Hungary	Conf. & visit of Institutes

DETAILS OF Ph. D. THESIS SUPERVISED

S.No.	Title of Thesis	Year	Name of candidate
(A)	Ph.D. Degree Awarded		
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) Macrocyclic 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) Derivatives of Cyclic ketooximes	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	2002	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 Raisonni
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	Ms Barkha Gupta
28	Chromatographic analysis of some drugs in biological samples	2009	Ms. Uma Negi

B Ph. D. Thesis in *Progress*

1.	Environmental Chemistry	Ms Payal Tiyaagi
2.	Electro-organic Chemistry of some Biomolecules	Mr. Ramo Avtar Sharma
3.	Studies on some biosensors for drugs	Mr. Manoj Pal
4.	Electroanalytical studies on some biologically important compounds	Ms.Sanghamitra Chatterjee

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-hydroxyacetophenone 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 Dharmsaktu

DETAILS OF M. Sc. DISSERTATIONS SUPERVISED

<i>Degree Awarded</i>		
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 Peroxomonosulphate Oxidation of Aniline.	1991 Mr. Alok Kumar
11.	Studies on the Electrooxidation 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 TMPP Membrane Electrodes for the Determination of Nickel (II) ions.	1996	Mr. Kaushik Dutta
19.	Removal of Rhodamine-B and Methylene blue from aqueous solutions using bagasse fly ash - A Sugar Industry Waste.	1997	Mr. Sachin Varshney Vivek
20.	Studies on the adsorption of zinc (II) ions on Red mud - an aluminium industry 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- (2,4-dinitrophenyl)-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 Aggarwal
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 ionophore and its use in PVC membranes for the determination of Zn ²⁺	2009	Mr. Satya Narayana