

Curriculum Vitae

Name : Ashwini Kumar Srivastava

Date of Birth : 1st December 1953

Address : UGC-BSR Faculty Fellow
Department of Chemistry, University of Mumbai
Vidyanagari, Santacruz (East), Mumbai – 400 098
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ACADEMIC RECORD

Degree	Subject	University	Year
Ph.D.	Analytical Chemistry	Banarasi Hindu University, Varanasi, India	1981
M.Sc.	Analytical Chemistry	Banarasi Hindu University, Varanasi, India	1976

POSITION HELD

Duration	Institution	Designation
2015 - Present	University of Mumbai	UGC-BSR Faculty Fellow
1998 - 2015	Univ. of Mumbai	Professor of Analytical Chemistry
1990 - 1998	Univ. of Mumbai	Reader in Analytical Chemistry
1986 - 1990	Univ. of Mumbai	Lecturer in Analytical Chemistry
1984 - 1986	Banasthali Vidyapith	Lecturer in Analytical Chemistry
1982 - 1984	Banaras Hindu University	Research Associate

AWARDS / HONORS

- Received “Thomson Reuters Research Excellence: India Citation Award” as ‘One of the best cited authors in Chemistry from India’ in 2015.
- Best Teachers Award, Government of Maharashtra in the year 2013.
- I/c Director, National Centre for Nanosciences and Nanotechnology, University of Mumbai (2016 – 2017).
- Head, Department of Chemistry, University of Mumbai (2007-2010 & 2011 - 2012)

- Chairman, Board of Studies in Chemistry and Bioanalytical Sciences, University of Mumbai (2007 – 2010)
- Visiting Professor at Michigan Technological University, USA (Jan. 2006)
- Chairman, Campus Development Council, University of Mumbai (2007 - 2012)
- Visiting Scientist, US Army Research Laboratory, Aberdeen, MD, USA since 2009 onwards)
- Coordinator, UCG - University with Potential for Excellence Scheme, University of Mumbai (2009 - 2015)
- Coordinator, DST – PURSE scheme, University of Mumbai (2009 - 2015)
- Coordinator, UGC – SAP, Department of Chemistry, University of Mumbai (2009 – 2013)
- Editor, Journal of University of Mumbai, Science Number (1999 – 2010)
- Research fellowship of CSIR, New Delhi (1977 – 1980)
- Fellow of the Indian Chemical Society
- Fellow of the Society for Advancement of Electrochemical science & technology, India
- Life member of the Indian Society of Analytical Sciences
- Life member of the Indian Society for Electroanalytical Chemistry
- Life member of the Asian and Mid-east Institute of Chemists
- Life member of the Centre for International, Strategic and Development Studies

RESEARCH INTEREST

Electroanalytical chemistry: Behavior of electrolytes in non-aqueous, mixed solvents and surfactant media; Supra molecular interaction of macromolecules with metals, vitamins and amino acids; Establishment of reaction mechanism and chemical analysis.

Development of Electrochemical Sensors: Chemically modified electrodes, ion selective electrodes; Use of nanomaterials in fabrication of electrochemical sensor for organic and biomolecules.

Electrochemical Power Sources: High energy density reactions, Supercapacitors.

Chromatography: Analytical method development using GC, HPLC and HPTLC techniques.

NUMBER OF RESEARCH STUDENTS GUIDED

Degree Awarded: Ph.D. - 22; M.Sc. (by research) - 10

Thesis Submitted: Ph.D. – 01 (2018); currently working: Ph.D. - 04

Post-doctoral: 04

RESEARCH PROJECTS

	Title of the project	Agency	Duration
1	Studies on High Energy Density Reactions	University Grants Commission, New Delhi, India	1988 - 1990
2	Electrochemical studies on the interaction of macromolecules with certain vitamins and amino acids for development of electrochemical sensors	Department of Science & Technology (DST), New Delhi, India	2002 - 2005

3	Supramolecular interactions based nanoscale electrochemical sensors for certain metal ions of nuclear technological importance	Board of Research in Nuclear Science, DAE, BARC, Mumbai, India	2006 - 2010
4	Low-cost, nano-scale electrochemical sensor and analyzer system for certain trace-level hazardous chemicals detection and analysis	US Army International Technology Centre – Pacific, Tokyo, Japan	2009 - 2011
5	Studies on high energy density reactions for development of nanostructured hybrid supercapacitors	US Army International Technology Centre – Pacific, Tokyo, Japan	2012 - 2015
6	Development of energy efficient hybrid supercapacitors based on macro/mesoporous metal oxides and their composites	US Army International Technology Centre – Pacific, Tokyo, Japan	2016 - 2018

RESEARCH PUBLICATIONS

Google Scholar Link:

https://scholar.google.co.in/citations?user=4GtpmwwAAAAJ&hl=en&gmla=AJsN-F64NxBGKHleJQ5QG8LErY0Q1dYUtMO9iR89UV1Dt5Q6mcjvU-YJNcJKCH_JvIsV__TrRSgve15CdwNWh9hbVGQqrtMPtpy1h-mcOMJUZNAAsd2cYjQzSE5xc9OP4_I6CCgs-t5L

Total citation = 3105; h-index = 30 (as on 12th July 2018)

1. A. K. Srivastava, S. S. Upadhyay, C. R. Rawool, N. S. Punde and A. S. Rajpurohit, Voltammetric Techniques for the Analysis of Drugs using Nanomaterials based Chemically Modified Electrodes", **Current Analytical Chemistry**, (2018) In press. DOI : [10.2174/1573411014666180510152154](https://doi.org/10.2174/1573411014666180510152154)
2. C. R. Rawool, N. S. Punde, A. S. Rajpurohit, S. P. Karna and A. K. Srivastava*, High energy density supercapacitive material based on a ternary hybrid nanocomposite of cobalt hexacyanoferrate/carbon nanofibers/polypyrrole, **Electrochim. Acta**, 268, 411 – 423 (2018)
3. C. R. Rawool, N. S. Punde, A. S. Rajpurohit, and A. K. Srivastava*, Adsorptive stripping voltammetric determination of dicyclomine hydrochloride at a glassy carbon electrode modified with silver decorated Fe₃O₄ nanocubes in pharmaceutical and biological samples, **Anal. Methods**, 10, 1441 – 1452 (2018)
4. S. S. Upadhyay, P. K. Kalambate and A. K. Srivastava*, Enantioselective analysis of Moxifloxacin hydrochloride enantiomers with graphene-b-Cyclodextrin-nanocomposite modified carbon paste electrode using adsorptive stripping differential pulse voltammetry, **Electrochim. Acta**, 248, 258 – 269 (2017)
5. P. K. Kalambate, C. R. Rawool and A. K. Srivastava*, Fabrication of graphene nanosheet-multiwalled carbon nanotube-polyaniline modified carbon paste electrode for simultaneous electrochemical determination of terbutaline sulphate and guaifenesin, **New J. Chem.**, 41, 7061 – 7072 (2017)

6. M. P. Kingsley, P. A. Sathe and A. K. Srivastava*, Electrochemical sensor for simultaneous determination of dextromethorphan hydrobromide and paracetamol at carbon paste electrode modified with synthesized indium tin oxide nanoparticles and ionic liquid, **J. Indian Chem. Soc.**, *94*, 681 - 698 (2017)
7. R. A Dar, L. Giri, S. P. Karna and A. K. Srivastava*, Performance of palladium nanoparticle–graphene composite as an efficient electrode material for electrochemical double layer capacitors, **Electrochim. Acta**, *196*, 547 - 557 (2016)
8. P. K. Kalambate and A. K. Srivastava*, Simultaneous voltammetric determination of paracetamol, cetirizine and phenylephrine using a multiwalled carbon nanotube-platinum nanoparticles nanocomposite modified carbon paste electrode, **Sensors and Actuators, B**, *233*, 237-248 (2016)
9. P. K. Kalambate, C. R. Rawool and A. K. Srivastava*, Voltammetric determination of pyrazinamide at graphene-zinc oxide nanocomposite modified carbon paste electrode employing differential pulse voltammetry, **Sensors and Actuators, B**, *237*, 196-205 (2016)
10. P. K. Kalambate, C. R. Rawool, S. P. Karna and A. K. Srivastava*, Highly sensitive and selective determination of methylethylgometrine maleate using a carbon paste electrode modified with a composite of carbon nanofibers/silver nanoparticles, **Mater. Sci. Eng. C**, *69*, 453-461 (2016)
11. M. P. Kingsley, P. K. Kalambate and A. K. Srivastava*, Simultaneous determination of ciprofloxacin and paracetamol by adsorptive stripping voltammetry using copper zinc ferrite nanoparticles modified carbon paste electrode, **RSC Advances**, *6*, 15101 - 15111 (2016)
12. D. S. Deshpande, D. K. Gadmale, S. M. Bakre and A. K. Srivastava*, High-performance thin-layer chromatographic method for the determination of chlorpyrifos and its metabolite in visceral samples, **J. Planar Chromatography**, *29*, 429-434 (2016)
13. D. S. Deshpande and A. K. Srivastava*, Method validation for simultaneous determination of pesticide residues in post-mortem samples by HPLC – UV method, **Eur. J. Forensic Sci.**, *3*, 1-6 (2016)
14. M. Saraf, R. A. Dar, K. Natarajan, A. K. Srivastava and S. M. Mobin, A Binder-Free Hybrid of CuO-Microspheres and rGO Nanosheets as an Alternative Material for Next Generation Energy Storage Application, **Chemistry Select**, *1*, 2826 – 2833-2016
15. P. K. Kalambate, R. A. Dar, S. P. Karna and A. K. Srivastava*, High performance supercapacitor based on graphene-silver nanoparticles-polypyrrole nanocomposite coated on glassy carbon electrode, **J. Power Sources**, *276*, 262 - 270, 2015
16. R. A Dar, G. A Naikoo, P. K Kalambate, L. Giri, F. Khan, S. P. Karna and A. K. Srivastava*, Enhancement of the energy storage properties of supercapacitors using graphene nanosheets dispersed with macro-structured porous copper oxide, **Electrochim. Acta**, *163*, 196 - 203 (2015)
17. P. K. Kalambate, M. R. Biradar, S. P. Karna and A. K. Srivastava*, Adsorptive stripping differential pulse voltammetry determination of rivastigmine at graphene nanosheet-gold nanoparticle/carbon paste electrode, **J. Electroanal. Chem.**, *757*, 150 – 158 (2015)
18. D. S. Deshpande, D. K. Gadmale, S. M. Bakre and A. K. Srivastava*, Rapid method for determination of selected organophosphorus pesticides in post-mortem tissues by GC-NPD, **Bulletin of Pure and Applied Sciences**, *34-C, 11*, 1-2, (2015)

19. M. P. Kingsley, P. B. Desai and A. K. Srivastava*, Simultaneous electro-catalytic oxidative determination of Ascorbic acid and Folic acid using Fe₃O₄ nanoparticles modified carbon paste electrode, **J. Electroanal. Chem.**, *741*, 71 – 79, (2015)
20. N. G. Khare, R. A. Dar, and A. K. Srivastava*, Adsorptive Stripping Voltammetry for Trace Determination of Quinalphos Employing Silicon Carbide Nanoparticles Modified Glassy Carbon Electrode, **Electroanalysis**, *27*, 503 - 509 (2015)
21. B. J. Sanghavi, N. S. Gadhari, P. K. Kalambate, S. P. Karna and A. K. Srivastava*, Potentiometric stripping analysis of arsenic using a graphene paste electrode modified with thiocrown ether and gold nanoparticles, **Microchimica Acta.**, *182*, 1473 – 1481 (2015)
22. N. G. Khare, R. A. Dar, and A. K. Srivastava*, Determination of Carbendazim by Adsorptive stripping differential pulse voltammetry employing glassy carbon paste electrode modified with Graphene and Amberlite XAD 2 resin, **Electroanalysis**, *27*, 1915 - 1924 (2015)
23. P. K. Kalambate, B. J. Sanghavi, S. P. Karna and A. K. Srivastava*, Simultaneous voltammetric determination of paracetamol and domperidone based on a graphene/platinum nanoparticles/Nafion composite modified glassy carbon electrode, **Sens. and Act. B**, *213*, 285 – 294 (2015)
24. R. A. Dar, N. G. Khare, D. P. Kole, S. P. Karna, A. K. Srivastava*, Green synthesis of a silver nanoparticle – graphene oxide composite and its application for As(III) detection, **RSC Advances**, *4*, 14432 (2014)
25. B. J. Sanghavi, P. K. Kalambate, S. P. Karna and A. K. Srivastava*, Voltammetric determination of Sumatriptan based on a graphene/gold nanoparticles/Nafion composite modified glassy carbon electrode, **Talanta**, *120*, 1-9 (2014)
26. Reena R. Gaichore and A. K. Srivastava*, Electrocatalytic determination of propranolol hydrochloride at carbon paste electrode based on multiwalled carbon-nanotubes and γ -cyclodextrin, **J. Incl. Phenom Macrocycl Chem.**, *74*, 195 - 206 (2014)
27. S. K. Agrahari, S. D. Kumar and A. K. Srivastava*, Ion selective electrode for uranium based on composite multiwalled carbon nanotube-benzo-15-crown-5 in PVC matrix coated on graphite rod, **J. Anal. Chem.**, *69*, 40-49 (2014)
28. B. J. Sanghavi and A. K. Srivastava*, Adsorptive stripping voltammetric determination of imipramine, trimipramine and desipramine employing titanium dioxide nanoparticles and amberlite XAD-2 modified glassy carbon paste electrode, **Analyst**, *138*, 1395-1404 (2013)
29. B. J. Sanghvi, S. M. Mobin, P. Mathur, G. K.Lahiri, A. K. Srivastava*, Biomimetic sensor for certain catecholamines employing copper(II) complex and silver nanoparticle modified glassy carbon paste electrode **Biosens. Bioelectron.**, *39*, 124-32 (2013)
30. R. Gaichore and A. K. Srivastava*, Voltammetric determination of nifedipine using a β -cyclodextrin modified multi-walled carbon nanotube paste electrode, **Sens. and Act. B**, *188*, 1328-1337 (2013)
31. S. Patil and A. K. Srivastava*, Development and validation of a liquid chromatography method for the simultaneous determination of eight water soluble vitamins in multivitamin formulations and human urine, **J. AOAC INTERNATIONAL**, *96*, 1273-1280 (2013)
32. Purvi B. Desai and A. K. Srivastava*, Adsorptive stripping differential pulse voltammetric determination of Metoprolol at Nafion-CNT-nano-composite film sensor, **Sens. and Act. B**, *176*, 632-638 (2013)

33. A. K. Srivastava* and R. Gaichore, Simultaneous determination of L-tyrosine and caffeine based on their electrocatalytic oxidation at 4-tert-butyl-calix[6]arene modified carbon paste electrode, **J. AOAC INTERNATIONAL**, 96, 133 - 141 (2013)
34. B. J. Sanghavi, G. Hirsch, S. P. Karna, A. K. Srivastava*, Potentiometric stripping analysis of methyl and ethyl parathion employing carbon nanoparticles and halloysite nanoclay modified carbon paste electrode **Anal. Chim. Acta**, 735, 37– 45 (2012)
35. Purvi B. Desai and A. K. Srivastava*, Determination of amiloride at Nafion–CNT-nano-composite film sensor employing adsorptive stripping differential pulse voltammetry **Sens. and Act. B**, 169, 341– 348 (2012)
36. Reena R. Gaichore and A. K. Srivastava*, Multiwalled carbon nanotube-4-tert-butyl calix[6]arene composite electrochemical sensor for clenbuterol hydrochloride determination by means of differential pulse adsorptive stripping voltammetry **J. Appl. Electrochem.**, 42, 979– 987 (2012)
37. S. S. Patil and A. K. Srivastava*, Development and Validation of Rapid Ion-pair RP-LC method for Simultaneous Determination of certain B-complex Vitamins along with Vitamin C **J. AOAC INTERNATIONAL**, 95, 74 - 83 (2012)
38. S. M. Mobin, A. K. Srivastava, P. Mathur and G. Lahiri, Varying structural motifs in oxyanions (NO_3^- , CO_3^{2-}) and phenoxyacetate (PhOAc^-) bridged coordination polymers derived from alkoxo-bridged dicopper building blocks with $\{\text{Cu}_2\text{O}_2\}$ core. **RSC Advances**, 1, 893 – 902 (2011)
39. B. J. Sanghavi and A. K. Srivastava*, Simultaneous voltammetric determination of acetaminophen and tramadol using Dowex50wx2 and gold nanoparticles modified glassy carbon paste electrode”, **Anal. Chim. Acta**, 706, 246-254 (2011)
40. N. S. Gadhari, B. J. Sanghavi and A. K. Srivastava*, Potentiometric stripping analysis of antimony based on carbon paste electrode modified with hexathia crown ether and rice husk **Anal. Chim. Acta**, 703, 31-40 (2011)
41. S. K. Agrahari and A. K. Srivastava*, Graphite Electrode Coated with a 7, 16-Dibenzyl-1, 4, 10, 13-tetraoxa-7, 16-Diazacyclooctadecane-Multiwalled Carbon Nanotube Composite as Sensor For Detection of Samarium. **Electroanalysis**, 23, 1531 - 1535 (2011)
42. B. J. Sanghavi and A. K. Srivastava*, Adsorptive stripping differential pulse voltammetric determination of venlafaxine and desvenlafaxine employing Nafion–carbon nanotube composite glassy carbon electrode. **Electrochim. Acta**, 56, 4188-4196 (2011)
43. D. Parvatalu and A. K. Srivastava*, Proton medium effect based on ferrocene assumption in 80 Mass % Propylene Carbonate + p- Xylene Medium **J. Solution Chem.**, 40, 403-414 (2011)
44. N. S. Gadhari, B. J. Sanghavi, S. P. Karna and A. K. Srivastava*, Potentiometric stripping analysis of bismuth based on carbon paste electrode modified with cryptand [2.2.1] and multiwalled carbon nanotube **Electrochim. Acta**, 56, 627-635 (2010)
45. B. J. Sanghavi and A. K. Srivastava*, Simultaneous voltammetric determination of acetaminophen, aspirin and caffeine using in situ surfactant modified multiwalled carbon nanotube paste electrode **Electrochim. Acta**, 55, 8638 - 8648 (2010)
46. S. M. Mobin, A. K. Srivastava, P. Mathur and G. Lahiri, Reversible single-crystal to single-crystal transformations in a Hg(II) derivative. 1D-polymeric chain \rightleftharpoons 2D-networking as a function of Temperature **Dalton Trans.**, 39, 8698-8705 (2010)

47. R. R. Gaichore and A. K. Srivastava*, Macrocyclic Compounds Based Chemically Modified Electrodes for Voltammetric Determination of L-Tryptophan Using Electrocatalytic Oxidation, **Anal. Lett.** *43*, 1933-1950 (2010)
48. S. M. Mobin, B. J. Sanghavi, A. K. Srivastava, P. Mathur and G. Lahiri, A Novel Biomimetic Sensor for Certain Phenols Employing a New copper(II) Complex, **Anal. Chem.**, *82*, 5983 - 5992 (2010)
49. S. M. Mobin, A. K. Srivastava, P. Mathur and G. Lahiri, Single-crystal to single crystal transformations in discrete hydrated dimeric copper complexes **Dalton Trans.**, *39*, 1447 - 1449 (2010)
50. S. M. Mobin, A. K. Srivastava, P. Mathur and G. Lahiri, Vapor-Diffusion-Mediated Single Crystal-to-Single Crystal Transformation of a Discrete Dimeric Copper(II) Complex to a Discrete Tetrameric Copper(II) Complex, **Inorg. Chem.**, *48*, 4652 - 4654 (2009)
51. D. Paravatalu and A. K. Srivastava*, Establishment of Hydrogen Scale in 80 Mass % Propylene Carbonate + *p*-Xylene Medium, **J. Solution Chem.**, *38*, 1203 - 1215 (2009)
52. S. K. Agrahari, S. D. Kumar, A. K. Srivastava*, Development of a Carbon Paste Electrode containing Benzo-15-crown-5 for trace determination of uranyl ion using voltammetric technique **J. AOAC INTERNATIONAL**, *92*, 241-247 (2009)
53. R. M. Kotkar and A. K. Srivastava Polarographic behaviour of Nicotinamide in surfactant media and its determination in cetyltrimethyl ammonium bromide surfactant system, **Analytical Sciences**, *24*, 1093 - 1098 (2008)
54. D. Parvatalu and A. K. Srivastava*, Ionic Conductivity in Binary Solvent Mixtures: 7. Behavior of Certain Univalent Acids and Alkaline Earth Metal Perchlorates in 80 Mass % Propylene Carbonate + *p*-Xylene at 25 °C **J. Chem. Engg. Data**, *53*, 933 - 938 (2008)
55. Purvi B Desai, R. M. Kotkar and A. K. Srivastava*, Electrochemical Behavior of Pyridoxine Hydrochloride (Vitamin B₆) at Carbon Paste Electrode Modified with Crown Ethers **J. Solid State Electrochem.**, *12*, 1067 - 1075 (2008)
56. R. M. Kotkar and A. K. Srivastava* Complexation of macrocyclic compounds with nicotinamide in dimethylsulphoxide and its water mixture, **Supramolecular Chemistry**, *20*, 545 - 552 (2008)
57. V. D. Vaze and A. K. Srivastava*, Determination of Pyridoxine hydrochloride in Pharmaceutical preparations by calixarene based Potentiometric sensor **J. Pharma. Biomed. Analysis**, *47*, 117 - 182 (2008)
58. R. M. Kotkar and A. K. Srivastava*, Electrochemical behavior of nicotinamide using carbon paste electrode modified with macrocyclic compounds, **J. Incl. Phenom Macrocycl Chem.**, *60*, 271 - 279 (2008)
59. V. D. Vaze and A. K. Srivastava*, Electrochemical behaviour of folic acid at calixarene based chemically modified electrodes and its determination by adsorptive stripping voltammetry, **Electrochim. Acta**, *53*, 1713 - 1721 (2007)
60. R. M. Kotkar, Purvi B Desai and A. K. Srivastava*, Behavior of riboflavin on plain carbon paste and aza macrocycles based chemically modified electrodes, **Sens. Actuators B. Chem.**, *124*, 90 - 98 (2007)

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62. M. K. Malve and A. K. Srivastava*, Determination of Adulteration in diesel by gas chromatography – mass spectrometry and capillary gas chromatography, **The Indian J. Chriminology & Criminalistics**, *27*, 83 – 94 (2006).
63. P. V. Jaiswal, V. S. Ijeri and A. K. Srivastava*, Effect of Surfactants on the dissociation constants of ascorbic acid and maleic acids **Colloids and Surfaces B: Biointerfaces**, *46*, 45 – 51 (2005)
64. A. Sil, V. S. Ijeri and A. K. Srivastava*, Coated - Wire Iron (III) Ion - Selective Electrode Based on Iron Complex of 1,4,8,11-tetraazacyclotetradecane **Sens. Actuators B. Chem.**, *106*, 648 - 653 (2005)
65. M. K. Malve and A. K. Srivastava*, Determination of Special Boiling Point Solvent (SBP) in petrol using gas-liquid chromatography, **The Indian J. Chriminology & Criminalistics**, *26*, 54 – 61 (2005)
66. R. Shivdas, P. Desai and A. K. Srivastava*, Complexation of Macrocyclic Compounds with Organic Molecules: 1 Pyridoxine Hydrochloride in Dimethylsulphoxide" **J. Chem. Engg. Data**, *49*, 1738-1743 (2004)
67. P. V. Jaiswal, V. S. Ijeri and A. K. Srivastava*, Complexation of macrocyclic compounds with silver ions in surfactant media. **J. Inclusion Phenomena**, *49*, 219 - 224 (2004)
68. A. Sil and A. K. Srivastava*, Studies on the complexation of transition metal ions with macrocyclic compounds in mixed solvents by competitive potentiometry and polarography **Supramolecular Chemistry**, *16*, 343 - 351 (2004)
69. A. Sil, V. S. Ijeri and A. K. Srivastava*, Coated wire Chromium(III) ion selective electrode based on aza microcycle. **Anal. Bioanal. Chem.**, *378*, 1666 - 1669 (2004)
70. V. S. Bhat, V. S. Ijeri and A. K. Srivastava*, Coated wire lead(II) selective potentiometric sensor based on 4-tert-butylcalix[6]arene. **Sens. Actuators B. Chem.**, *99*, 98 - 105 (2004)
71. M. K. Malve and A. K. Srivastava*, Analysis of petrol for presence of Special Boiling Point Solvent (SBP) by gas-liquid chromatographic method based on area percentage of lower hydrocarbon, **The Indian J. Chriminology & Criminalistics**, *25*, 105 - 114 (2004)
72. A. Sil, V. S. Ijeri and A. K. Srivastava*, Stability Constants of some Macrocyclic Complexes of Ag (I) and Cu (II) in Mixed Solvents by Potentiometry **Supramolecular Chemistry**, *15*, 451 – 457 (2003)
73. D. Parvatalu and A. K. Srivastava*, Ionic conductivity in binary solvent mixtures. 6. Behavior of selected 1 : 1 electrolytes in 80 mass % propylene carbonate + p-xylene at 25 °C **J. Chem. Engg. Data**, *48*, 608 – 611 (2003)
74. V. S. Ijeri and A. K. Srivastava* Complexation of macrocyclic compounds with mono-, di- and tri- valent transition and heavy metal ions in 90 % (v/v) DMSO + water **Polyhedron**, *22*, 569 – 574 (2003)
75. R. A. Samant, V. S. Ijeri and A. K. Srivastava*, Complexation of macrocyclic compounds with metal ions: 2. Mg(II), Ca(II), Sr(II), Ba(II), Cu(II) and Ag(I) in 20 mass % propylene carbonate + ethylene carbonate **J. Chem. Engg. Data**, *48*, 203 – 207 (2003)

76. M. S. Narvekar and A. K. Srivastava*, Ion-pair reversed-phase HPLC determination of aromatic amine isomers prohibited under German ban **J. Liquid Chromatography and Related Technologies**, 26, 85 – 98 (2003)
77. R. A. Samant, V. S. Ijeri and A. K. Srivastava*, Electrochemical Behaviour of some Copper (II) salts in 20 wt % Propylene Carbonate + Ethylene Carbonate: Standard Potential of the Cu^{2+}/Cu system at 25 °C. **J. Electroanal. Chem.**, 534, 115 – 121 (2002)
78. A. Sil, V. S. Ijeri and A. K. Srivastava*, Coated-wire copper (II) ion-selective electrode based on 5, 6, 14, 15-dibenzo-1, 4-dioxa-8, 12-diazacyclopentadeca-5, 14-diene **Electroanalysis**, 14, 1215 – 1217 (2002)
79. V. S. Ijeri and A. K. Srivastava*, Complexation of macrocyclic compounds with metal ions: I. Cd(II), Pb(II), Co(II), Mn(II) and Ag(I) ions in 40 volume % ethanol + water **J. Chem. Engg. Data**, 47, 346 - 350 (2002)
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81. M. S. Narvekar and A. K. Srivastava*, Separation of aromatic amine isomers on HPTLC plates impregnated with 18-crown-6 **J. Planar Chromatography - Modern TLC**, 15, 120 - 123 (2002)
82. P. V. Jaiswal, V. S. Ijeri and A. K. Srivastava*, Voltammetric behaviour of certain vitamins and their determination in surfactant media. **Analytical Sciences**, 17, i741- i744 (2002)
83. M. S. Narvekar and A. K. Srivastava*, Separation and determination of banned amine isomers in relation to German ban on azo dyes by HPTLC **J. Planar Chromatography - Modern TLC**, 14, 360-363 (2001)
84. P. V. Jaiswal, V. S. Ijeri and A. K. Srivastava*, Voltammetric Behaviour of Menadione in Surfactant Media and it's Determination in Sodiumdodecyl Sulphate Surfactant System. **Bull. Chem. Soc. Jpn.**, 74, 2053-2057 (2001)
85. V. S. Bhat and A. K. Srivastava*, Ionic conductivity in binary solvent mixtures. 5. Behavior of selected 1 : 1 Electrolytes in ethylene carbonate + water at 25 °C **J. Chem. Engg. Data**, 46, 1215 - 1221 (2001)
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88. V. S. Ijeri and A. K. Srivastava*, Voltammetric determination of lead at chemically modified electrode based on crown ethers. **Analytical Sciences**, 17, 605-608 (2001)
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90. V. S. Ijeri and A. K. Srivastava*, The complexation behaviour of crown ethers with some divalent transition metal and silver ions in 40% (v/v) ethanol + water medium. **Eur. J. Inorg. Chem.**, 943-947 (2001)

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CONFERENCES / SYMPOSIA / WORKSHOPS/ REFRESHER COURSES

International Conferences Attended Abroad:

Sr. No.	Name of the Conferences	Title of the paper presented / lecture delivered	Organizers	Duration
1	Conference on Electrochemical analysis Methods, ELACH 4	Voltammetric determination of copper at chemically modified electrodes based on crown ethers	German Chemical Society at University of Rostock, Germany	Sept.13-17, 1999.
2	International Congress on Analytical Sciences 2001	Voltammetric behaviour of certain vitamins and their determination in surfactant media	Waseda University, Tokyo, Japan	Aug. 6 – 10, 2001
3	Breakthrough into Global Economies of 21 st Century	University of Mumbai in 21 st Century & inter University collaboration	BIRC countries, St. Petersburg, Russia	May 21 – 25, 2008
4	2011 Nanoelectronic Devices for Defense and Security Conference	Potentiometric stripping analysis of methyl parathion employing carbon nanoparticles and halloysite nanoclay modified carbon paste electrode	RPI, Troy, New York, USA	Aug. 29 – Sept. 1, 2011
5	4 th International Conference on Clean and Green Energy	Enhancement of the energy storage properties of supercapacitors using functional materials	Amsterdam, Netherlands	February 14 – 15, 2015

Conferences / Symposia / Workshops / Refresher courses organized:

Sr. No.	Name of the Conferences / Courses	Capacity/ designation	Organizers	Duration
1	UGC Refresher course in Chemistry	Coordinator	Dept. of Chemistry, Univ. of Mumbai	Dec.8-31, 1993
2	UGC Refresher course in Chemistry	Coordinator	Dept. of Chemistry, Univ. of Mumbai	Sept.29-Oct.22, 1994
3	UGC Refresher course in Chemistry	Coordinator	Dept. of Chemistry, Univ. of Mumbai	Oct.30 - Nov.22, 1995
4	Eleventh Research Scholars' meet	Convener	U.D.Chem. & I.C.S (Mumbai)	Jan. 8-9, 1999
5	International Conference on Emerging trends in Chemical Sciences	Convener / Conference Chair	Department of Chemistry, University of Mumbai	January 23 – 25, 2007
6	National seminar on Nanomaterials	Convener / Conference Chair	Department of Chemistry university of Mumabi	March 28 – 29 2008
7	National Conference on Synthesis and Applications of Novel Materials	Convener / Conference Chair	Department of Chemistry, University of Mumbai	March 4-5, 2010
8	International Conference on Supramolecular Chemistry and Nanomatetrials - ICSN 2011	Convener / Conference Chair	Department of Chemistry, University of Mumbai, Mumbai.	February 14 - 16, 2011

Conferences / Symposia / Workshops / Refresher courses participated in India:

Sr. No.	Name of the Conferences/ Seminars/Workshops/ Refresher courses	Title of the paper presented / lecture delivered	Organizers	Duration
1	International Symposium on Advanced Electroanalytical techniques	Behaviour of silver perchlorates and silver picrate in propylene carbonate	University of Jodhpur	Dec. 22-28, 1985.
2	73 rd Session, Indian Science Congress Association	Conductance and potentiometric studies of certain organic acids in propylene carbonate	University of Delhi	Jan. 3-8, 1986.
3	Workshop on Bio-electrochemistry	Delivered lectures on bio-electrochemistry	SAEST Bombay Chapter, at Nehru Science	Feb. 19-20, 1987.

			Centre, Mumbai	
4	Symposium on waste treatment by Electrochemical methods	Delivered lectures on applications of voltammetry in water treatment	SAEST Bombay Chapter, at BARC, Mumbai	Jan. 13-14, 1988.
5	Workshop for Post-Graduate Teachers in Chemistry	Delivered lectures on voltammetry & chromatography	Dept. of Chemistry, Univ. of Mumbai	Dec. 18-20, 1989.
6	Workshop on Electroanalytical Techniques	Delivered a lecture	Institute of Science and TIFR, Mumbai	Jan.11-13, 1993.
7	National Symposium on University-Industry Interaction	Handling of minor projects of Industries by Universities in the domain of Quality Control and Environmental monitoring	DST & Dr. B. A. Marathwada University, Aurangabad	Jan. 19-21, 1995
8	Workshop on Electroanalytical Techniques	Delivered a lecture	IIT, Mumbai	Sept. 19 -22, 1995.
9	Indian Council of Chemists, 15 th Conference	Electrochemical studies of certain medicinal compounds and their estimation using differential pulse polarography	Dr. B.A. Marathwada University, Aurangabad	Oct. 24-26 1996
10	Workshop and Training Programme on Electrochemical Instrumentation	Delivered a series of lectures	USIC, Nagpur & WRIC, Mumbai at Nagpur University	Jan. 27 - Feb. 1, 1997.
11	National Seminar on Modern Trends in Macrocyclic Compounds	Studies on the complexation behaviour of certain divalent metal and silver ions with macrocyclic polyethers in ethanol-water media	Chemistry Department, Gujarat University, Ahmedabad	Feb. 19-20, 2000
12	National Conference on Materials for the New Millennium	Microcyclic compounds as materials for determination of vitamin C by electrocatalytic oxidation	Department of Applied Chemistry, Kochin University of Science and Technology	March 1-3, 2001

13	UGC Visiting Scientist	Delivered a series of lectures on Advances in electroanalytical techniques & chromatography	Department of Chemistry, Marathwada University, Aurangabad	Dec. 20 –21, 2002
14	XIV All India Annual Conference on Forensic Science	Chaired a Session on Chemical Sciences	University of Mumbai	Jan. 6 – 8, 2003
15	National Seminar on thermodynamics and reaction dynamics	1) Coated - wire Pb(II) selective potentiometric sensor based on 4-ter-butyl calyx[6]-arene in PVC matrix. 2) Coated – wire iron(III) selective electrode based on iron complex of cyclam. 3) Chaired a Session	Department of Chemistry, Gorakhpur University	March 23 – 25, 2003
16	International Conference on Electroanalytical Chemistry and Allied Topics	Invited talk on Electrochemical Sensors based on Macrocyclic Compounds	Indian Society for Electroanalytical Chemistry at Dona Paula, Goa	January 18 – 23, 2004
17	IX International Conference on the Chemistry of Selenium and Tellurium	Chaired a Session	Indian Institute of Technology, Mumbai	February 23 – 27, 2004
18	International Symposium on Frontiers in Nanoscale Science, Technology and Education	Invited talk on Carbon Nanotubes based Electrochemical (Bio)Sensors	Cochin, India	August 16 – 19, 2006
19	National Conference on Newly Emerging Areas in Chemical Sciences	Invited talk on Supramolecular interactions based electrochemical sensors	P. G. Department of Chemistry, Udai Pratap Autonomus College, Varanasi	December 22 – 24, 2006
20	International Conference on Emerging trends in Chemical Sciences	Behaviour of Riboflavin on Chemically Modified Electrodes Based Aza Macrocycles and its Determination Using Square Wave Anodic	Department of Chemistry, University of Mumbai	January 23 – 25, 2007

		Stripping Voltammetry		
21	Indian Council of Chemists, 26 th Annual Conference	Invited talk on Development of electrochemical sensors based on supramolecular interactions	Department of Chemistry Dr. H.S. Gour University, Sagar	February 26 – 28 2008
22	Indian Council of Chemists, 26 th Annual Conference	Development of an ion selective electrode for uranium based on macrocycle compounds	Department of Chemistry Dr. H.S. Gour University Sagar	February 26 – 28 2008
23	International Symposium on Material Science	1) Macrocyclic Neutral Carrier Based Electrochemical Sensor For Uranium 2) Chaired a Session	BARC-Mumbai	December 2 - 6 2008
24	Second International Conference on Frontiers in Nano Science and Technology	Invited talk on Nanomaterials based Biosensors	Cochin University of Science and Technology	Jan. 3 – 6, 2009
25	National Conference on “Chemistry of Materials”	Electrochemical Investigations and Determination of Acetaminophen using insitu Surfactant Modified Multiwalled Carbon nanotube Paste Electrode	Department of Chemistry, University of Mumbai	February, 20 – 21, 2009
26	Indo – US Scientific Meet	Discussion on joint research proposals between Indian and American Scientists	National Institute of Advanced Studies, Institute of Science Campus, Banglore	March 4 – 5, 2009
27	International Conference on Recent Advances in Industrial Electrochemical Science and Technology	Invited talk on Electrochemical Sensors based on Supramolecules and Carbon nanotubes	Mangalore University	November 5 - 7, 2009
28	UGC-SAP National Seminar on New Synthetic Methodologies and Functional Materials	Invited talk on Electrochemical Sensors based on Supramolecules Interactions	Kolhapur	December, 2009
29	National Conference on	Development and Validation of HPLC-UV	Department of Chemistry,	March 4-5,

	Synthesis and Applications of Novel Materials	Method for Simultaneous Determination of Six Water-soluble B-group Vitamins in Pharmaceutical Formulations	University of Mumbai	2010
30	4 th ISAEC, Teriennial International conference on Electroanalytical Chemistry and Allied Topic	1) Invited talk on Chemically Modified Electrodes as Sensors in Voltammetry 2) Ion Selective Electrode For Uranium Based on Composite Multiwalled Carbon Nanotube -Benzo-15-Crown-5 in PVC Matrix Coated on Graphite Rod.	Toshali Sands, Puri, (Orissa)	March 16 - 18, 2010
31	International Conference on Supramolecular Chemistry and Nanomatetrials - ICSN 2011	Development of graphite electrode coated with a 1,4,10-trioxa-7,13-diazacyclopentadecane-multiwalled carbon nanotube composite as sensor for detection of Thorium.	Department of Chemistry, University of Mumbai, Mumbai,	February 14 - 16, 2011
32	Recent Trends in Bio-medical research	Invited talk on 'Electrochemical sensors in Bio-medical research	Department of Chemistry, Dr. H. S. Gour University, Sagar	October 17 - 18, 2011
33	International conference on Green Chemistry	Invited talk on Novel sensor devices and strategies for practicing green analytical chemistry	Cetral University of Rajasthan & University of Delhi organized at Jaipur	December 6 - 10, 2011
34	International Conference on Chemistry and Materials: Prospects & Perspectives - 2012	Invited talk on 'Electrochemical (bio) Sensors based on Supramolecular interactions and Nanomaterials'	Babasaheb Bhimrao Ambedkar University, Lucknow	December 14 -16, 2012
35	8 th National Conference on Solid State Chemistry and Allied Areas	Electrochemical Sensors based on Functional Materials	Indian Asso. of Solid State Chemists and Allied Scientists	February 15 - 17, 2013

			at Dr. H. S. Gour University, Sagar	
36	Symposium on "Chemistry and Environment"	Novel sensor devices and strategies for practicing Green Analytical Chemistry	Banaras Hindu University	March 15 – 16, 2013
37	Indian Analytical Science Congress	Electrochemical Sensors based on Functional Materials	Indian Society of Analytical Scientists, International centre, Goa	August 15 – 17, 2013
38	International Conference on Multifunctional Materials, Energy and Environment	Development of Electrochemical Bio-Sensors based on Functional Materials	Sharda University, Greater Noida	August 21 – 23, 2013
39	Training and Workshop on Electroanalytical Techniques	Fundamentals and Advances in Electroanalytical Techniques	Central University of Rajasthan, Ajmer	November 25 – December 1, 2013
40	Annual Convention of Chemists of Indian Chemical Society	Electrochemical Sensors based on Functional Materials	Kurukshetra University	December 9 – 12, 2014
41	National Conference on recent development in Synthetic and Material Chemistry	Voltammetric determination of Rivastigmine	Ratnam College, Mumbai	January 16-17, 2015
42	4 th International Conference on Clean and Green Energy	Enhancement of the energy storage properties of supercapacitors using functional materials	Amsterdam, Netherlands	February 14 – 15, 2015
43	103rd Session, Indian Science Congress Association	(1) Invited talk on Development of electrochemical sensors and supercapacitors based on functional nanocomposite materials 2) Chaired a Session	University of Mysore	Jan. 3 - 7, 2016
44	National Conference on Green technology and Sustainable development: Indigenous Practices	Determination of Paracetamol and Phenylephrine Voltammetrically	Amity University, Mumbai	February 26-27, 2016
45	29 th Research Scholar Meet 2017	Nanocomposites based materials for development of Supercapacitors and Electrochemical sensors	St. Xavier's College, Mumbai	February 17-18, 2017
46	International conference on frontiers at chemistry - allied sciences interface	Electrochemical Sensors and Supercapacitors Using Functional Nanocomposite	Rajasthan University, Jaipur	July 22 -23, 2017

		Materials		
47	International conference on Recent trends in chemical sciences	Functional Nanocomposite Materials based Electrochemical Sensors	Jiwaji University, Gwalior	February 15 – 17, 2018
48	International conference on Nanomaterials: Initiatives and Applications	High Performance Supercapacitors based on Graphene based composite materials	Institute of Engineering, Jiwaji University, Gwalior	March 9 – 11, 2018