

Biodata

Professor Rajeev Jain

Ph.D., D.Sc.



*School of Studies in Chemistry
Jiwaji University, Gwalior-474011*

Name: Dr. Rajeev Jain
Father's Name: Late Dr. Raghukul Tilak
Date of Birth: August 30, 1954
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Jiwaji University, Gwalior – 474011 (M.P.)
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- At present working as *Professor of Chemistry (since 1998); Director, Institute of Engineering; Head, Environmental Chemistry.*
- Dean College Development Council (March 2008-October 2012); Professor and Head, School of Studies in Chemistry, Jiwaji University, Gwalior (March 2005 – March 2008). Head, Environmental Chemistry (1994 to May 2012).
- Dean, Faculty of Science (28th June 2006 to 28th June 2008).
- Member, Executive Council, Jiwaji University, Gwalior (July 2007 to June 2008; August 2011- to August 2014).
- Chairman, Board of Studies in Chemistry, Jiwaji University, Gwalior (August 2004 – August 2007).
- Member, Academic Council, Jiwaji University, Gwalior (2004 to 2012, 2014-).
- Member, University Court (2004 to May 2012).
- Convener, Academic Flying Squad (Sept.2008-Sept. 2011), Jiwaji University, Gwalior.
- Awarded Gwalior Ratna (2000, 2007).
- Selected as Reader in the same department in December 1988. Working as Professor w.e.f July 06, 1998, till date.
- **Awarded D.Sc.** in 1990 by Jiwaji University, Gwalior.
- Joined School of Studies in Chemistry, Jiwaji University, Gwalior as Lecturer in April 1982.
- On Roll of National Associate ship 1984-87 and 1989-92. During this period visited various Indian universities and worked on Electroanalytical Chemistry
- Research Associate ship of CSIR was awarded in 1981.
- Worked as Pool Officer for one-year 1981-1982 at University of Roorkee, Roorkee (Now IIT, Roorkee).
- Awarded Post Doctoral Fellowship of CSIR in 1978.
- Awarded Ph.D. in 1978, University of Roorkee, Roorkee (Now IIT, Roorkee). During this period JRF and SRF were awarded.

Administrative Experience

- (i) Convener and member of different committees constituted for conducting examination, looking after discipline of employees, their promotions, appointment of teaching and non-teaching employees. Conducted first entrance test for admission to Ph.D. as per UGC guidelines in 2012 and second in 2014.
- (ii) As DCDC (*March 2008-October 2012*) looked after the affiliations, appointments, development etc of over 400 colleges affiliated to the university. During last 32 years of stay as teacher at Jiwaji University remain committed to institution building.

- (iii) Started new postgraduate courses “Master in Instrumentation & Commercial Methods of Industrial Analysis, M.Sc. Environmental Chemistry and M.Sc. Pharmaceutical Chemistry”.
- (iv) Establishing University-Industry interaction. Experts from various industries are taking part in imparting training to the students.
- (v) Worked as Director of Self Supporting Programmes (SSP) and Professor-in-charge placement cell (2000-2004). Took keen interest in the placement of students and 100% placement could be achieved in many Departments.
- (vi) Remain associated with different universities viz., Member Board of Studies, MACT, Bhopal, NIT, Kurukshetra, R.D. University, Jabalpur, Babasaheb Bhimrao Ambedkar University, Lucknow, U.P. Technical University, Kanpur, Kumaon University, Nainital, Devi Ahilya University, Indore, Gurukul Kangri University, Haridwar, Member Board of Studies, Banasthali Vidyapeeth, Banasthali, D.A. University, Indore, BHU, Varanasi, CCS University, Meerut, Board of Studies of the Centre of Professional Courses, AMU, Aligarh etc.

Following research projects, sanctioned by various agencies have been successfully completed/are in progress.

A. CSIR, New Delhi

- i) Electro-organic synthesis of New β - amino- diketones and β –aminoketoeesters, (1986-89), One - J.R.F.
- ii) Synthesis and characterization of macrocyclic systems and their use as catalyst in hydrocarbon oxidation, (1986-89), Two - J.R.F.
- iii) Electrochemical removal of heavy metals from Industrial effluents using ultra-filtration technique, (1999-2002), One - J.R.F.

B. ICMR, New Delhi

- i) Electro-chemical investigations on some biochemical /biological systems, (1983-86), One - J.R.F.

C. MPCOST, Bhopal

- i) Electro-organic synthesis of new triketones and diketoesters, (1990-93), One - T.A.

D. UGC, New Delhi

- i) Electrochemical oxidation of some sulphanamides and their derivatives, (1991 to 1995), One - J.R.F.
- ii) Monooxygenase like oxidation of olifines and alkanes catalysed by manganese prophyrin and macrocyclic system, (1987-90), One - J.R.F.
- iii) Electrochemical studies of dopamine derivatives catecholamines, (1998 – 2002), One- J.R.F.
- iv) Electrochemical studies on some environmental estrogens, (2003-2006), One- J.R.F.
- v) “Electrochemical Studies and quantification of some pharmaceuticals in micellar Systems” (2009-2012).

E. Ministry of Environment and Forests, New Delhi

- i) Electrochemical treatment of dyes in textile, cosmetic, food and pharmaceutical industrial effluents, (1998 - 2002), Two J.R.F. & one field attendant.
- ii) Detection and Treatment of Endocrine Disrupters in Wastewater and Sludge Using Green Technology, (2008-2011), One J.R.F

CONFERENCES ORGANIZED AS CONVENOR/ORGANISING SECRETARY

- ❖ Organized National Conference on “**Electrodics and Electrode Kinetics (NCEEK)**”, 25-27 Nov. 2005.
- ❖ Organized National Workshop on “**Thermal Analysis**”, 15 & 16 Dec. 2005.
- ❖ Organized National Conference on “**Greener Aspects of Electrochemistry (GAELEC)**”, 7-9 Dec., 2007
- ❖ Organized Seminar on **Kinetics in Colloidal System**, March 8, 9, 2010
- ❖ Organized National Conference on “**Advances in Electroanalytical Chemistry**”, 23-24 Dec., 2011
- ❖ Organized National Conference on “**Greener Technologies for Detection and Treatment of Pharmaceuticals**”, March 2013.
- ❖ Organized National Conference on “**Electrochemistry for Cleaner Environment**”, 17-18th January, 2014,
- ❖ Organized National Conference on “**Role of Electrochemistry in Pharmaceutical Industry**”, 24-25th January, 2015.

PEER REVIEWER/ REFEREE

Referee for the publications in Journals Published by CSIR, New Delhi, Indian Chemical Society, Kolkata, J. Chem. Eng. Data, Electrochimica Acta, Waste Management, Research on Chemical Intermediates, Water Research, Journal of Colloid and Interface Science, Talanta, Analyst, Environmental Science & Technology, Journal of Environmental Monitoring & Assessment, J. Hazardous Material, J. Applied Electrochemistry, J. Environment Management, Catalysis, Molecule, J. Molecular Liquids, Carbohydrate Polymers, Bioelectrochemistry, Applied Clay Sciences, J. Pharm. Analysis, Colloids and Surfaces B: Biointerfaces, Pharmaceutical Methods, J. Advanced Research, Chemical Engineering Journal, Ceramics International, Journal of Environmental Chemical Engineering, Sensors and Actuators, J. Environmental Chemical Engineering, Desalination, Chemosphere, J. Pharm. Biomed. Anal., Analytical Letters, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, International Journal of Environmental Analytical Chemistry, Nanoscale Research Letters, J. Separation Science, CLEAN - Soil, Air, Water, Canadian Journal of Chemistry, J. Chemical Education, Green Chemistry Letters and Reviews, Chemical Engineering Communications, Environmental Chemistry Letters. Referee for Projects submitted to CSIR, New Delhi, Ministry of Environment & Forests, New Delhi and Department of Research and Intellectual Property Rights, Department of Defense Research and Development, New Delhi, Department of Science & Technology, New Delhi.

Awards

- i. **President 103rd Session (2016) of Indian Science Congress** of Chemical Sciences Section.
- ii. Chemical Sensors –Research Leader Award 2014
- iii. Senior Editor -Chemical Sensors (Cognizure)
- iv. On Editorial Board- J.Environmenta Science and Pollution Research (Springer).
- v. Editor- J. Indian Chemical Society
- vi. On Editorial Board – Int. J. Electrochemical Science

- vii. *GUEST EDITOR* of the special issue of International Journal of Environmental and Pollution published by Inderscience, U.K.
- viii. Awarded best research paper award for 2009 by DRDE, Gwalior.
- ix. Guest Editor of the special issue of the Current Organic Chemistry (2016, I.F. 1.0).

INVITED SPEAKER

Resource person in UGC sponsored Refresher Course (1994) at Indore, Refresher Course (1997) in Zoology Department, Jiwaji University, Gwalior, Refresher course (1999-2003) at R. D. University, Jabalpur. Resource person in UGC sponsored orientation courses (2001) LNIP, Gwalior. Delivered invited talk to the officers at NCC girls college, Gwalior (1999), Resource person at Disaster Management Institute (1999, 2000), Bhopal & delivered lectures on “Electrochemistry for Cleaner Environment” & “Applications of Modern Instrumentation in Management of Environmental Accidents”. Resource person in UGC sponsored Refresher course (2002) at Dr. H. S. Gaur University, Sagar, Banaras, Hindu University, Varanasi (2001). Participated in a UGC Group monitoring programme (1994) at Vishakhapatnam and delivered a talk. Delivered invited lecture in National Workshop on, “Current Physico-chemical Practices in Textile Dyes, Waste Treatment and Future Trends”, held in Department of Civil Engineering, IIT, New Delhi (2000). Deliver invited lecture on “Application of Electrochemical Processes for Industrial Wastewater Treatment and Environmental Protection” in Indo-Italian Bilateral Workshop held in September 2002, NEERI, Nagpur. Participated in DOEF Review meetings at New Delhi (1999) and NBRI, Lucknow (2001), CBRI Roorkee (2000). Participated in national conference on IPR issues and opportunities in research and education held at IIT, Roorkee, Feb. 16, 17, 2002. Attended training course on research management under World Bank project at ASCI, Hyderabad, March 2002. Invited speaker at “Fresh Water Related Issues” with round table on River Linking Plans, J.N.U., New Delhi, March 31st to April 2nd, 2003, International Conference on Electroanalytical Chemistry and Allied Topics, Dec. 7 to 12, 2003, Goa, T. M. University Bhagalpur, 2003, Annual Convention of Chemists, Jhansi, Dec 2003, New Delhi 2004, Allahabad 2012, Symposium, IIT, Roorkee, Dec 2003 and Symposium on Recent Trends in Chemistry, Rewa, March 2004, Indian Science Congress Association, Chandigarh, January 2005. Indian Council of Chemistry, Mumbai, October 2004., Extension lecture, Gurukul Kangri University, Hardwar, Dec. 2007, 2009, 2012; Emerging Trends in Advance Chemistry (ETAC), University of Rajasthan, Jaipur, March 2008, Resource Person at TTTI, Bhopal 2010, 2011 and 2012. Resource person at Orientation Course, Rajasthan University, Jaipur, 2014.

“Annexure 1”

LIST OF PUBLICATIONS OF PROFESSOR RAJEEV JAIN

1. Studies on the polarographic reduction of azomethine bond in the coupled products of β - ketoesters with aryldiazonium chloride.
Talanta, 24 (1977) 586.
2. Polarographic reduction of some potential antidiabetic compounds.
J. Electroanal. Chem., 84 (1977) 141.
3. Application of Hammett equation to guanylpyrazole nitrates.
Current Science, 46 (1977) 447.
4. Rapid TLC separation of some coupled products of β -ketoesteres with aryldiazonium chlorides.
J. Anal. Cham. 286 (1977) 248.
5. Polarographic reduction of some arylazoisoxazoles.
J. Electroanal. Chem., 79 (1977) 497.
6. TLC separation of some closely related potential antidiabetic N-carbamoyl 3, 5-dimethyl-4-arylazopyrazoles.
J. Anal. Chem., 287 (1977) 319.
7. Polarographic reduction of some arylazopyrazoles in NN-dimethylformamide.
J. Electronal . Chem., 87(1978) 129.
8. Quantitative treatment of substituent effects in the polarographic investigations of some potential antineoplastic 2-amino-4-phenylazothiazoles.
Talanta, 25 (1978) 111.
9. TLC separation of some closely related potential antidiabetic arylazoisoxazoles.
Fresinius J. Anal. Chem., 292(1978) 81.
10. Polarographic reduction of some 5,5-dimethylcyclohexane-2-arylhydrazono-1,2,3-triones and the effect of substituents on their $E_{1/2}$.
J. Electronal. Chem., 93 (1978), 81.
11. Polarographic investigations of some pyrimidinylpyrazolin-5-ones and effect of substituents on their $E_{1/2}$.
Indian J. Chem., 16A (1978) 962.
12. Polarographic reduction of some potential antineoplastic 5-arylazopyrimidines.
J. Indian Chem. Soc., 65(1978) 1260.
13. Polarographic behaviour of some arylazopyrimidinylpyrazoles.
J. Electroanal. Chem., 295 (1979) 272.
14. Rapid TLC separation of some closely related potential antineoplastic arylazopyrazoles.
Fresinius J. Anal. Chem., 295(1979) 272.
15. Polarographic behaviour of some potential antidiabetic guanylpyrazole nitrates and the effect of double layer structure on $E_{1/2}$ values.
J. Elactroanal.Chem., 105 (1979) 349.

16. Polarographic behaviour of some potential antidiabetic 4-arylhydrazono-N-phenyl-3-methyl-2-pyrazolin-5-ones.
Indian J. Chem, 18A (1979) 136.
17. Identification of some closely related potential antidiabetic 4-arylhydrazono-N-benzylsulphonyl- 2-pyrazolin-5-ones by TLC.
Fresenius J. Anal. Chem., 294 (1979) 414.
18. Rapid TLC separation of some closely related potential antidiabetic guanylpyrazole nitrates.
Fresenius J. Anal. Chem., 298(1979) 44.
19. Identification of some closely related potential antineoplastic arylazopy- rimidines by TLC.
Fresenius J. Anal. Chem., 301(1980) 438.
20. Rapid TLC separation of some closely related potential antineoplastic arylazothiazoles.
J. Liquid Chromatography, 3(1980) 557.
21. Synthesis of some new 4-arylhydrazono-N-phenylthiocarbamoyl-3-methyl -2-pyrazolin-5-ones as possible potential antidiabetics.
J. Indian Chem.Soc., 58 (1981) 203.
22. Polarographic reduction of some potential antidiabetic compounds.
Proc. Indian Natn. Sci. Acad., 47A (1981) 309.
23. Synthesis of some new series of hydrazono derivatives of 2-aminobenzothiazoles.
J. Indian Chem.Soc., 58(1981) 504.
24. Stepwise stability constants and thermodynamic functions of 4-(2-hydroxyphenyl) hydrazono-N-benzylsulphonyl-3-methyl-2-pyrazolin-5-ones (HBSP) and its metal complexes.
Thermochimica Acta, 46(1981) 813.
25. Synthesis of some new N-carbamoyl-3, 5-dimethyl/3-methyl-5-phenyl/3, 5-diphenyl-4-arylazo pyrazoles.
J. Indian Chem.Soc., 58(1981) 813.
26. Rapid TLC separation of some closely related arylazopyrimidinylpyrazoles.
Fresenius J. Anal. Chem., 307(1981) 207.
27. Polarographic behaviour of some potential antidiabetic benzylsulphonylazo-pyrazoles.
Electrochimica Acta, 26 (1981) 151.
28. Investigations of redox behaviour of some 3-benzothiazolyldiazonopentane-2,4-diones at D.M.E.
Indian J. Chem., 20A (1981) 888.
29. Identification of some closely related pyrazolin-5-ones by TLC.
J. Liquid Chromatography, 4 (1981) 2229.
30. Rapid TLC separation of closely related pyrimidinyl pyrazolin-5-ones.
J. Liquid Chromatography, 4 (1981) 121.
31. Interaction of 2-amino-4-phenyl-5-arylazothiazoles with 2-nitro, 3-nitro and 4-nitrobenzaldehyde.
J. Indian Chem. Soc., 58 (1981), 1112.
32. Polarographic behaviour of some thiocarbamoylarylazopyrazoles.
Indian J. Chem., 21A (1982) 250.

33. Studies on the chelates of 2-(2-hydroxyphenyl) hydrazonopentane-2, 4-dione (HPPTP).
Acta Chimica, 111 (1982) 27.
34. Stepwise stability constants and thermodynamic functions of some transition metal complexes of 2-(2-hydroxyphenyl) hydrazonopentane-2,4-diones.
Thermochemica Acta, 52 (1982) 355.
35. On the polarographic reduction of 2-aminobenzothiazoles.
J. Indian Chem. Soc., 59 (1982) 558.
36. Application of Hammett equation to the coupled products of β -ketoester with arylazodiazonium chlorides.
J. Electrochem. Soc., India, 31 (1982) 47.
37. Investigations on redox behaviour of some 2-benzothiazolyldiazono ethyl-2- cyanoethanoates.
Proc. Indian natn. Sci. Acad., 48A (1982) 36.
38. Thermodynamic behaviour and stability constants of UO_2 (II), Fe (III), Ni (II), Co (II), Fe (II), Mn (II), Cd (II) metal complexes of 3-methyl-4- (2-hydroxy-phenyl)hydrazono-3- isoxazolin-5-one (MHHI).
Thermochimica Acta, 56, (1982) 381.
39. On the polarographic reduction mechanism of some hetrocyclic compounds.
J. Indian Chem. Soc., 59 (1982) 191.
40. Rapid TLC separation of some closely related benzothiazoles.
J. Liquid Chromatography, 5 (1982) 1171.
41. Polarographic behaviour of some 4-arylhydrazono-N-thiocarbamoyl-3-methyl-2-pyrazolin-5-ones.
Indian J. Chem., 21A (1982) 796.
42. Polarographic studies on the effect of some ionic and non-ionic surfactants on the kinetics of irreversible electrode process of arylzopyrimidines and arylzopyrazoles.
J. Indian Chem. Soc., 59 (1982) 962.
43. Thermodynamic behaviour and stability constants of 5-arylo-2-thio-4- hydroxy-6-pyrimidines.
Thermochimica Acta, 53 (1982) 1177.
44. Identification of some closely related potential antibiotic 4-arylhydrazono-1-guanulpyrazole nitrate-3-methyl-2-pyrazolin-5-ones.
J. Liquid Chromatography, 5 (1982) 1057.
45. Polarographic studies on the reduction of azomethine bond in arylazosemicarbazides and determination of Hammett parameters.
J. Indian Chem. Soc., 59 (1982) 381.
46. Polarographic reduction of some 5,5-dimethylcyclohexane-2-benzothiazolyl hydrazono-1,3-diones and its 2-methyl,4-methyl,4-methoxy,4-ethoxy derivatives.
J. Indian Chem. Soc., 59 (1982) 1060.
47. Identification of some potential antibacterial compounds on impregnated silica gel G plates as their π complexes.
J. Liquid Chromatography, 6 (1983) 661.
48. Effect of substituents on polarographic reduction of some potential antidiabetic arylazothiadiazines.
Indian J. Chem., 22A (1983) 331.

49. Investigations on redox behaviour of some 3,5-diphenyl-4-arylzoisoxazoles at DME.
Proc. Indian Natn. Sci. Acad., 45A (1983) 215.
50. Elucidation of the structure of copper chelates of 2-arylhydrazonopentane-2, 4-diones by polarography.
Annali Di Chimica., 73 (1983) 719.
51. Polarographic behaviour of some potential antidiabetic 4-arylhydrazono-N-hippuryl-3-methyl-2-pyrazolin-5-ones.
J. Indian Chem. Soc., 60 (1983) 936.
52. Polarographic investigations of some 2-arylazo-2-bromo-5,5-dimethylcyclohexane-1,3-diones.
Croatica Chimica Acta, 56 (1983) 117.
53. Polarographic Investigations of some potential antidiabetic phenylthiocarbamoylazo-pyrazoles.
Proc. Indian natn. Sci. Acad., 49A (1983) 572.
54. Elucidation of the structure of some potential antidiabetic pyrazolin-5-ones using polarographic technique.
Croatica Chimica Acta, 57 (1984) 235.
55. Polarographic behaviour of some arylazopyrimidines and their metal complexes.
Annali di Chimica, 74 (1984) 853.
56. Polarographic behaviour of some potential antineoplastic benzothiazolyl-azopyrazoles.
Croatica Chimica Acta, 59 (1986) 463.
57. A spectrophotometric and polarographic investigations of some new precursors of potential antineoplastic compounds.
Croatica Chimica Acta, 59 (1986) 463.
58. Polarographic behaviour of some arylazoguanilpyrazole nitrates.
Proc. Indian natn. Sci. Acad., 52 (1986) 521.
59. Polarographic behaviour of some potential antidiabetic compounds with three reduction sites.
J. Indian Chem. Soc., 63 (1986) 308.
60. Synthesis of some new benzothiazolylazopyrazoles.
J. Indian Chem. Soc., 64 (1987) 579.
61. Polarographic investigations of some coupled products of aromatic amines with β -diketones.
Bull. Electrochemistry, 3 (1987) 197.
62. Synthesis and polarographic behaviour of benzothiazolylazopyrimidines.
J. Electrochemical Soc., India, 36 (1987) 179.
63. Thin layer chromatographic separation of some sulpha drugs using acetoacetanilide as a coupling agent.
J. Chromatogr., 441 (1988) 454.
64. Synthesis of some new isonicotinoylazopyrazoles.
J. Indian Chem. Soc., 65 (1988) 298.
65. Synthesis of some new 1-H-(4,6-dimethylpyrimidinyl)-3-arylamino-3-arylazo-5-methylpyrazoles as possible potential antineoplastics.
J. Indian Chem. Soc., 65 (1988) 354.

66. Spectrophotometric and electrochemical studies on some heterocyclic azo derivatives.
Bull. Electrochemistry, 4 (1988) 921.
67. Polarographic and cyclic voltammetric studies on some arylazopyrimidinylpyrazoles.
J. Electrochemical. Soc., India, 37 (1988) 349.
68. Synthesis of some new arylazoisoxazoles.
J. Indian Chem. Soc., 66 (1989) 59.
69. Synthesis of some new isonicotinoylazopyrazoles.
J. Indian Chem. Soc., 66 (1989) 350.
70. Synthesis of some new 1-carbamoyl-3-aminophenyl-and 1-carbamoyl- 3-amino- (2-chlorophenyl)-5-methyl-4-arylazopyrazoles as possible potential antidiabetics.
J. Indian Chem. Soc., 66 (1989) 486.
71. A polarographic study on the curing kinetics of unsaturated polyester resin with styrene.
J. Electrochem. Soc., India, 38 (1989) 38.
72. Selective nitration of hydrazono group.
J. Indian Chem. Soc., 67 (1990) 204.
73. Synthesis of some new benzothiazolyldiazones as possible potential antineoplastics.
J. Indian Chem. Soc., 67 (1990) 179.
74. Rapid TLC separation of aromatic amines on surfactants impregnated Silica Gel -G plates.
J. Indian Chem. Soc., 67 (1990) 355.
75. Preparation of some 1-guanyl/ (2',4' dinitrophenyl)-3- phenylamino-5-methyl-4-arylazopyrazoles.
J.Indian Chem. soc., 67 (1990) 350.
76. Thin layer chromatographic separation of some sulpha drugs using acetylacetone as a coupling agent.
J. Indian Chem. Soc., 67 (1990) 616.
77. Synthesis of some new derivatives of pyrazolin-5-ones.
J. Indian Chem. Soc., 67(1990) 575.
78. Synthesis of some new arylazopyrazoles and arylazopyrimidines.
J.Indian Chem Soc., 67 (1990) 576.
79. Epoxidation of olefins catalysed by Fe (III) schiff-base complexes as catalyst.
J. Mol. Cat., 59 (1990) 385.
80. Epoxidation of olefins catalysed by Mn (III) (Schiff base) complexes as catalyst.
J. Chem. Soc., Perkin Trans., 2 (1990) 989.
81. Synthesis and characterisation of some peroxo complexes of zirconium.
Polyhydron, 9 (1990) 1405.
82. Electrochemical investigation on nitro substituted hydrazono compounds.
J. Chem. Soc., Perkin Trans., 2, 8 (1990) 1353.
83. Electrochemical oxidation of ethyl-2-arylhydrazono-3-phenylpropanoate-1, 3-dione.
J. Electroanal. Chem., 305 (1990) 313.

84. Electrochemical reduction of arylazopyrimidines.
Bull. Electrochem., 7 (1990) 224.
85. Electrochemical studies on some hydrazones.
Croatica Chemica Acta, 64 (1991) 607.
86. Synthesis of some new arylazopyrimidines.
Indian J. Het. Chem., 1 (1991) 79.
87. Electrochemical investigations on some arylazoisoxazoles
J. Electrochem. Soc., 40(1991) 607.
88. Electrochemical studies on some 2-arylhydrazono-1-phenylamino butane-1, 3-diones.
J. Electronal Chem., 313 (1991) 259.
89. Synthesis of some new pyrazole and pyrazolin-5-one derivatives of sulphonamides.
J. Indian Chem. Soc., 68 (1991) 415.
90. Oxidation of alkenes using the RuCl₃ PhIO system.
Polyhedron, 11 (1992) 463.
91. Olefin epoxidation using iron(III) schiff base complexes as catalyst.
Indian J. Chem., 31A (1992) 785.
92. Electrochemical behaviour of some 3-sulphonamoylhydrazonopentane-2, 4-diones.
J. Electrochem. Soc., 41 (1992) 175.
93. Electrochemical investigations on some guanylarylazopyrazoles.
J. Electrochem. Soc., India, 411 (1992) 103.
94. Synthesis of some new -4-(4' sulphonamoylphenylhydrazono)-1-phenyl-3-methyl-2-pyrazolin-5-one.
Indian J.Het. Chem.,2 (1993) 265.
95. Synthesis of 2-amino-5- (4'-substituted sulphonamyl) phenylazo-4 -phenylamino-6-methyl-pyrimidines.
Indian J. Het. Chem., 2 (1993) 267.
96. Electrochemical studies on some derivatives of sulpha drugs.
J. Electrochem. Soc. Indian 42 (1993) 119.
97. Ligand nature control epoxidation stereochemistry.
Indian J. Chem., 32B (1993) 303.
98. Rapid thin layer chromatographic separation of some sulpha drugs using surfactants as mobile phase.
J. Indian Chem. Soc., 71 (1994) 709.
99. Nickel (II) tellurolates: Preparative, spectral and electrochemical studies.
Trans. Metal. Chem., 19 (1994) 518.
100. Electrochemical investigations on some 1-dinitrophenyl arylazopyrazoles
Bull. Electrochem., 10 (1994) 297.
101. Electrochemical investigations on some hydrazono derivatives o sulfonamides
Trans. SAEST, 29 (1994) 208.

102. Electrochemical behavior of some 3-(N-bromo-N-phenylhydrazono)-1-phenylaminobutane-1,3-diones
Trans. SAEST, 29 (1994) 208.
103. Electrochemical investigations on some alkyl substituted hydrazones.
Proc. Indian natn. Sci. Acad., 61A (1995) 395 .
104. Electrochemical investigations on some potential antibacterials I.
Can. J. Chem., 73, (1995) 176.
105. Electrochemical investigations on some antibacterial pyrazolin-5-ones.
Bull Electrochem., 11 (1995) 537.
106. Synthesis of some new pyrazole and Isoxazole derivatives of sulphonamides.
J. Indian Chem. Soc., 72 (1995) 825.
107. Electrochemical investigations on some hydrazono derivatives of sulphonamides.
J. Electrochem. Soc. India, 44 (1995) 11.
108. Electrochemical investigations on some 1-dinitrophenylarylazopyrazoles.
Bull. Electrochem., 11 (1995) 326.
109. Electrochemical investigations on some hydrazono derivatives of sulfonamides
J. Electrochemical Soc., India, 44 (1995) 11.
110. Synthesis and antibacterial activity of sulphonamoylazopyrazoles.
Indian J. Het. Chem., 6,(1996), 71.
111. Synthesis of some new substituted sulphonamides.
Indian J. Het. Chem., 6 (1996) 151.
112. Synthesis of some potential antibacterials, Part -I.
J. Indian Chem. Soc., 73 (1996) 493.
113. Electrochemical studies on some potential antibacterial compounds.
J. Electrochem. Soc. India, 45 (1996) 1.
114. Electrochemical studies on 4-hydroxy-2-mercapto-6-methyl-5-sulphonamoyl-azopyrimidines.
Proc. Indian natn. Sci. Acad., 62 (1996) 317.
115. Quantitative treatment of substituents effects in the electrochemical reduction of arylazopyrazoles.
J. Indian Chem. Soc., 73 (1996) 689.
116. Olefin epoxidation catalysed by Mn(III) schiff base complexes : Evidence of oxomanganese(IV) formation.
J. Indian chem. Soc., 73 (1996) 80.
117. Polarographic and cyclic voltammetric studies on potential antibacterial 4-hydroxy-2-methylthio-6-methyl-5-sulfamoylphenylazopyrimidine
J. Indian Chem. Soc., 73 (1996) 211.
118. Electrochemical behavior of 1-thiocarbamoyl-4-sulfamoylphenylhydrazono-3-methyl-2-pyrazolin-5-one.
J. Indian Chem. Soc., 73 (1996) 207.
119. Electrochemical studies of some 2-(amino-4-(2'-methylphenylamino)-6-methyl-5-arylazopyrimidines.

- J. Indian Chem. Soc.*, 74 (1997) 46.
120. Studies on thin layer chromatographic separation of some sulpha drugs.
J. Indian Chem. Soc., 74 (1997) 480.
121. Electrochemical studies of some potential antibacterials II .
Can. J. Chem., 75 (1997) 567.
122. Electrochemical behaviour of some 3-(N-bromo-N-phenylhydrazono) -1-phenylaminobutane-1,3-diones.
J. Indian Chem. Soc., 74 (1997) 387.
123. Electrochemical behaviour of sulphonamoylhydrazonopyrazolin-5-ones.
J. Electrochem. Soc., India, 46 (1997) 127.
124. Synthesis of some potential antibacterial sulphonamoylazopyrimidines.
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 318. A single–step one pot synthesis of dialkyl fluorophosphates from dialkylphosphites
Tetrahedron Letters, DOI: 10.1016/j.tetlet.2015.06.014.
 319. Voltammetric Quantification of Antispasmodic Drug Drotaverine Hydrochloride in Human Serum
Current Phar. Analysis, DOI: 10.2174/1573412911666141215214105
 320. Voltammetric determination of an antihypertensive agent phentolamine at BDDE in the presence of surfactants
J. Electrochem. Soc. 161, 12, (2016), H780-H786
 321. New Generation Electrode Materials for Sensitive Detection.
J. Electrochem. Soc. 163 (2016) H159-H170
 322. Graphene-Zinc Oxide Nanorods Nanocomposite Based Sensor for Voltammetric Quantification of Tizanidine in Solubilized System
Applied Surface Science, 369, (2016), 151-158
 323. Highly Sensitive and Selective Polyaniline Nanofibre Based Voltammetric Sensor for the Quantification of Tinidazole
Advances in Polymer Technology, (2016), 216941-216947
 324. Polyaniline/Graphene Oxide Nanocomposite as Voltammetric Sensor for Electroanalytic Detection of Clonazepam.
Analytical Methods 8 (2016) 3034-3045
 325. Polyaniline-Graphene Oxide Nanocomposite Sensor for Quantification of Calcium Channel Blocker Levamlodipine
Materials Science and Engineering C, 65 (2016) 205-214
 326. Next-Generation Polymer Nanocomposite-Based Electrochemical Sensors And Biosensors: A Review
Trends in Analytical Chemistry, (2016), 55-67
 327. Electrocatalytic Quantification of Pantaprazole
J. Electrochem. Soc. 163, 8, (2016), H633-H638
 328. (1-Butyl 3-methylimidazolium hexafluorophosphate) based sensor for quantification of Eugenol antioxidant
Electroanalysis, 28 (2016) 1-9

329. Recent trends in electrochemical sensors for multianalyte detection- A Review
Talanta, 161(2016) 894-916
330. Adsorption kinetics studies of anti-inflammatory drug mesalamine using unsaturated polyester resin (UPR)
Journal of Molecular Liquids, 224 (2016) 219-226
331. A novel graphene-chitosan-Bi₂O₃ nanocomposite modified sensor for sensitive and selective electrochemical determination of a monoamine epinephrine
Ionics, 22 (2016) 943-956
332. Chemiresistive gas sensor for the sensitive detection of nitrogen dioxide based on nitrogen doped graphene nanosheets
RSC Advances, 6 (2016) 1527-1534
333. A single-step one pot synthesis of O,O'-dialkyl N,N-dialkylphosphoramidates from dialkylphosphites
Tetrahedron letters, 57(2016)3754-3756
334. Electrochemical deposition of MWCNT-MnO₂/PPy nano-composite application for microbial fuel cells
International Journal of Hydrogen Energy · September 2016, DOI: 10.1016/j.ijhydene.2016.09.020
335. Linear and nonlinear regression analysis for the sorption kinetics of Tropaeline 000 onto nanotalc
Environmental Science and Pollution Research (Communicated).
336. Zinc oxide nanoflowers based graphene nanocomposite platform for catalytic studies of febuxodot.
Int. J. Electrochemical Sci., 11 (2016) 10223.

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“Annexure 2”

LIST OF PAPERS PRESENTED/ACCEPTED FOR PRESENTATION IN CONFERENCES

1. Polarographic behaviour of some potential antidiabetic 4-arylhydrazono-3- methyl-2-pyrazolin-5-ones.
(*Annual Convention of Chemists, 1978, Andhra University, Phy.2*).
2. Quantitative treatment of substituent effect in the polarografic investigations of some potential antineoplastic 2-amino-4-aryl-5-phenylazopyrazoles.
(*Indian Science Congress, 1978, Ahemdabad, Phy. 190*).
3. Polarographic studies on some potential antidiabetic N-carbamoyl-3, 5-diphenyl -4-arylazopyrazoles.
(*Annual Convention of Chemists, 1979, Phy. 6*).
4. Quantitative treatment of substituent effects in the polarographic reduction of some potential antidiabetic 3, 5-diphenyl-4-arylazoisoxazoles.
(*Indian Science Congress, Calcutta, 1980 Phy. 15*).
5. Polarographic reduction of some potential antidiabetic N-phenylthiocarbamoyl-3, 5-dimethyl-4-arylazoisoxazoles.
(*Annual Convention of Chemists, 1980, Bombay, Phy. 60*).
6. A report on polarography of nitro derivatives of arylazothiazoles.
(*Indian Science Congress, 1981, Varanasi*).
7. Polarographic reduction of some potential antidiabetic arylazo thiadiazines.
(*Annual Convention of Chemists, 1981, Madras, Org. 67*).
8. Polarographic investigations on some 2-arylzo-2-bromo-5, 5-dimethyl cyclohexane-1, 3-diones.
(*International Symposium on Electroanalytical Technology, Chandigarh, 1982*).
9. Polarographic investigations on some potential antidiabetic pyrazolin-5-ones.
(*Indian Science Congress, 1982, Mysore*).
10. Polarographic behaviour of some N-carbamoyl-3,5-dimethyl-4-arylazopyrazoles in presence of surfactants.
(*Young Scientists Association of India, 1983, Delhi*).
11. Effect of non-ionic surfactants on the polarographic reduction of some potential antidiabetic pyrazolin-5-ones.
(*Annual Convention of Chemists, 1983, Cuttak, org.76*).
12. Studies on the effect of surfactants on the kinetics of irreversible electrode processes of some potential antineoplastic 2-amino-4-aryl-5-phenylazothiazoles at D.M.E.
(*National Symposium on Chemical Reactions Mechanism, 1983, Ujjain*).

13. Polarographic behaviours of some pyrazolin-5-ones.
(*Indian Science Congress, 1984, Ranchi*).
14. Studies on the effect of non-ionic surfactants on the polarographic behaviour of pyrazolin-5-ones.
(*Proc. International Conference on Polarography, 1980, Prague, Czechoslovakia*).
15. Elucidation of the structure of some potential antidiabetic pyrazolin-5-ones using polarographic technique.
(*Indian Science Congress, 1985, Lucknow*).
16. Polarographic behaviour of some pyrazolin-5-ones.
(*Annual Convention of Chemist, 1984, Calcutta, Org. 39*).
17. Studies on the metal chelates of potential antidiabetic isoxazolin-5-ones.
(*XXII International Conference on Coordination Chemistry, Budapest, 1982*).
18. Polarographic behaviour of some potential antidiabetic compounds in micellar solution.
(*International Symposium on Reactions in a Micellar and Membrane Surface, Sambalpur, 1985*).
19. Quantitative treatment of substituent effects in the polarographic investigations of some potential antidiabetic N-phenylthiocarbonyl-3-methyl-4-phenyl hydrazono -3-pyrazolin-5-ones.
(*National Seminar on Linear Free Energy Relationship, Madras, 1985*).
20. Polarographic behaviour of some benzothiazolylazopyrazoles.
(*Indian Science Congress, 1986, Delhi*).
21. Polarographic behaviour of some biologically important arylzopyrimidinylpyrazoles.
(*Symposium on Fundamental and Applied Electrochemistry, Bombay, 1985*).
22. Electrochemical investigations of some biologically important benzothiazolyl azopyrazoles at DME.
(*Symposium on Analytical Instrumentation and Technique in Electrochemistry 1985, Karaikudi*).
23. Polarographic behaviour of some 4-arylhydrazono-1-phenyl-3-methyl-2-pyrazolin-5-ones.
(*International Symposium on Advanced Electroanalytical Techniques, Jodhpur, 1985*).
24. Polarographic investigation on some coupled products of aromatic amines with β -diketones.
(*Proc. Indian Science Congress, 1987, Bangalore, Phy.329*).
25. Influence of different solvents and their composition on polarographic reduction of some arylazopyrimidinylpyrazoles
(*International Seminar on Instrumental Methods of Electroanalytical Techniques, Mysore, 1987*)
26. Electrochemical studies on some arylazopyrazoles.
(*Annual Technical Meeting of the Electrochemical Society of India, Bangalore, 1987*).
27. Elucidation of the structure of copper chelates of 2-arylhydrazonopentane-2,4-diones by polarography.
(*Symposium on Fundamental and Applied Electrochemistry, Bombay, 1983*).
28. Polarographic behaviour of some potential antineoplastic arylazopyrimidines in solubilised system.
(*Association de investigation de la industria esponala de detergents, Tensioactivos Y Afines, Barcelona., Spain, 1987*).
29. Polarographic investigation of some potential antidiabetic arylazothiazoles in solubilised system.
(*Formula, 1st International forum formulation physical chemistry and applications, 1987, Nice, Franc*).
30. Polarographic behaviour of some carbonylpyrazoles.
(*Indian Science Congress, Pune, 1988*).

31. Synthesis of some coupled products of aromatic amines with ethyl benzoyl acetate—an example of micellar catalysis.
(*Association de investigation de la industria esponala de detergents, Tensioactivos Y Afines, Barcelona, Spain, 1989*).
32. Electrochemical studies on some arylazopyrimidinylpyrazoles.
(*Annual Convention of Chemists, 1988, Phys., 138*).
33. Electrochemical investigation of some potential antidiabetic 3-methyl-5-phenylamino-4-arylazoisoxazoles.
(*Annual Convention of Chemists, 1989, Indore, Anal. 75*).
34. Polarographic behaviour of arylazopyrazoles in solubilised system.
(*Fourth National Conference on Surfactants, Emulsion and Biocolloids, I.I.T. Bombay, 1989*).
35. Electrochemical behaviour of some potential antidiabetic arylazoisoxazoles in solubilised systems.
(*National Conference on Chemical and Physical Aspects of Organised Biological Assemblies, Calcutta, 1990*).
36. Quantitative treatment of substituents effects on the electrochemical reduction of 3-methyl-5-amino-4-arylazoisoxazoles.
(*27th Annual Convention of Chemists, 1990, BodhGaya*).
37. Electrochemical investigation on some hydrazones in solubilized system.
(*Fifth National Conference on Surfactants, Emulsions & Biocolloids, Vadodara, 1991*).
38. Electrochemical investigation on some biologically important sulphonamoyl azopyrimidines.
(*10th Indian Council of Chemists, 1991, Goa*).
39. Electroanalytical methods: Tool for mechanistic studies.
(*Indian Council of Chemists, 1992, held at Muzzafarpur Invited talk*).
40. Electrochemical studies on some biologically important sulphonamoyl azopyrimidines in solubilised system.
(*First West Pacific Electrochemistry Symposium, Tokyo, 1992*).
41. Electrochemical investigation on some substituted hydrazono compounds in solubilized system.
(*XXIII JORDONS, DEL C.E.D., 1992, Barcelona*).
42. Electrochemical studies on some biologically important sulphonamoyl azothiazopyrimidine in micellar solutions.
(*International Symposium on Industrial Applications of Microemulsion Technology, Delhi, 1993*).
43. Electrochemical behaviour of some sulphonamoylazopyrazoles.
(*Industrial Electroanalytical Symposium, Indianapolis, USA, 1993*).
44. Quantitative treatment of substituent effects in the electrochemical studies of some potential antibacterial sulphonamoylazopyrazoles.
(*National Seminar on Studies on Chemical Reactivity: Recent Trends, Guwahati, Nov. 1993*).
45. Electrochemical studies on some biologically important sulphonamoyl azopyrazoles.
(*29th Annual Convention of Chemists, 1992, Rewa*).

46. Electrochemical investigations on some potential antibacterial 1-phenyl-3, diphenyl- (4'-sulphonamoyl) azopyrazoles.
(*Fifth National Convention of Electrochemists, Delhi, 1994*).
47. Electrochemical behaviour of some 3-(N-bromo-N-phenylhydrazono)-1-phenylaminobutane-1,3-diones.
(*Fifth International Symposium on Advances in Electrochemical Science & Technology, 1994, Madras*).
48. Electrochemical investigations on some hydrazono derivatives of sulphonamides.
(*Fifth International Symposium on Advances in Electrochemical Science & Technology, 1994, Madras*).
49. Electrochemical studies of some 2-amino-4-(2' methylphenylamino)-6-methyl-5-arylazopyrimidines.
(*31st annual convention of chemist, Varanasi, Dec. 1994*).
50. Structure - reactivity correlations in the electrochemical reduction of some 3'-(N-bromo-N-phenyl hydrazono-1-phenyl-aminobutane-1,3-diones.
(*National seminar on corellation analysis, Annamallai Univ., Jan. 1994*).
51. Electrochemical investigations on some potential antibacterials.
(*82nd Session of Science Congress, Kokata, 1994*).
52. Electrochemical investigations on some hydrazones.
(*82nd Session of Science Congress, Kolkata, Jan 3-8, 1995*).
53. Electrochemical oxidaton of some sulphonamoylhydrazones.
(*Annual Convention of Chemists, Coimbatore, 1996*).
54. Electrochemical behaviour of some sulphonamoylazopyrazoles.
(*Indian Council of Chemists, Aurangabad, 1996*).
55. Electrochemical oxidaton of 2,4-(1-phenylpyrazoles) sulphonamoylhydrazono-5, 5-dimethyl cyclohexane-1,3-dione.
(*Indian Council of Chemists, Aurangabad, 1996*).
56. Electrochemical investigations on some potential antibacterials.
(*Indian Science Congress, Delhi, 1997*).
57. Electrochemical behaviour of 2-amino-5-(4'-sulphonamoyl)azo-4-phenylamino-6-methylpyrimidines.
(*34th Annual Convention of Chemists, Delhi, 1997*).
58. Polarographic and cyclic voltametric studies on 2-amino-4,6-dimethyl-4,4'-phonamoylazopyrimidines.
(*Third National Conference on Electrochemical, Mumbai, 1997*).
59. Electrochemical studies of sulphonamoylphenylazoaminobenzenes.
(*National Conference on Electrochemical Engineering & Technology, Chennai, 1997*).
60. Electrochemical oxidation of 2-(4'-sulphonamoyl) phenylhydrazo-5, 5-dimethylcyclohexananone-1, 3-diones.
(*Eighth National Convention of Electrochemists, CECRI, Karaikudi, Jan. 1998*).
61. Electrochemical behaviour of some hydrazones.
(*85th Session of The Indian Science Congress, Hyderabad, Jan. 1998*).

62. Electrochemical treatment of effluent from dyes and pigments industry.
(*WEFTEC, Singapore, March 1998*).
63. N-phenylcinnamohydroxamic acid - A new reagent for the determination of vanadium in environmental samples.
(*Specialized International Conference On Water Quality and its Management, New Delhi, March 1998*).
64. Electrochemical treatment of effluent from photographic chemical industry.
(*28th Annual International Symposium on Environmental Analytical Chemistry, Geneva, March 1998*).
65. Electrochemical treatment of Industrial effluents
(*Retrospect of Indian Research on Environmental Pollution: Focus 21st Century; 22nd & 23rd Nov.1999, New Delhi*).
66. Synthesis of some biologically important hydrazono derivative of sulphonamides.
(*National Seminar on newer Vistas in Bio -Active Agents, 9th & 10th Dec.1999, Gandhigram*).
67. Electrochemical studies on dyes used in textile industry with particular reference to colour removal.
(*Indian Science Congress, 3rd to 7th Jan.2000, Pune*).
68. Electrochemical treatment of dyes used in pharmaceutical industry.
(*Indian Science Congress, 3rd to 7th Jan.2000, Pune*).
69. Electrochemical oxidation of hydrazono derivatives of pyrazolin-5-one at solid electrodes.
(*2nd International Seminar on Analytical Technique in Monitoring the Environment, held in Tirupati from Dec. 18th to 20th, 2000*).
70. The current physio-chemical practices in textile wastewater treatment.
(*One-Day National Workshop on Technologies for Treatment of Waste Water from Textile and Dyeing Industries, held in I.I.T Delhi on 26th August, 2000*).
71. Electrochemical investigation of potential antineoplastic 1-carboxymethylpyridinium – 3 – aminophenyl –5-methyl –4(4'-sulphonamoyl) azopyrazoles .
(*11th International Symposium on Pharmaceutical and Biomedical Analysis, May 14-18, 2000, Convention Centre Basel, Switzerland*).
72. Electrochemical studies with particular reference to colour removal on tartrazine – A commonly used industrial azo dye.
(*Seminar on Electroanalytical Techniques and Allied Topics (ELAC –2000) held at Mumbai from Nov. 27 – Dec 1, 2000*).
73. Electrochemical study on azo dye-metanyl yellow used in textile industry vis-à-vis colour removal.
(*Seminar on Electroanalytical Techniques and Allied Topics (ELAC –2000) held at Mumbai from Nov 27 – Dec 1, 2000*).
74. Electrochemical studies on azo dye vis-a-vis colour removal.
(*Annual Convention of Chemists, Dec. 2001, Jodhpur*).
75. Electrochemical studies on indigo carmine: A textile dye.
(*Indo. Italian workshop on Emerging Technology for Industrial Wastewater and Environment held at NEERI, Nagpur, Sept. 2-4-2002*).
76. Cyclic voltammetry as a tool in elucidating reaction mechanism.

- (40th Annual Convention of Chemists held at Jhansi, Dec. 23-27, 2003).
77. Electrochemical degradation of azo dye- amaranth vis-avis colour removal.
(IWA 3rd Conference on Oxidation Technologies for water and Wastewater Treatment, Goslar, Germany, May 2003).
 78. Electrochemical degradation of dye amaranth used in food, pharmaceutical and textile industries.
(Role of Chemistry in the emerging area of applied sciences, Tirupati, March 15-17, 2004).
 79. Electrochemical studies on some biologically important sulphonamoylhydrazo pyrazolines in solubilised systems.
(6th World Surfactants Conference, Germany, June 20-23, 2004).
 80. Electrochemical behaviour of 3-[4'-(thiazolyl); 3-[4'(acetyl) sulphona-moylphenyl] azomethineindole.
(91st Science Conference, January 2004).
 81. Electrochemical behavior & estimation of oxybutynin by squarewave stripping voltammetry.
(Eight International Symposium on Advances in Electrochemical Science & Technology (ISAEST – 8), at NIO, Goa, India, November 2006).
 82. Adsorptive properties of cefixime and its determination in pharmaceuticals and biological fluid using electroanalytical techniques.
(National Symposium on Emerging Trends in Advanced Chemistry, University of Rajasthan, Jaipur, India, March 2008).
 83. Adsorptive Cathodic Adsorptive Stripping Voltammetric Behaviour and Determination of Tricyclic Antidepressant Drug Nortriptyline Hydrochloride in Bulk Form and Pharmaceutical Formulation.
(213rd ECS Meeting, Hawaii, USA, May 2008).
 84. Adsorptive Stripping Voltammetric Behavior and Quantification of the Antispasmodic drug Drotaverine Hydrochloride in Bulk Form, Pharmaceutical Preparations and Biological Medium
(PRIME 2008, 214th ECS Meeting, Honolulu, USA, October 2008).
 85. Electrochemical Study and Treatment of Potential Environmental Contaminant Metanil Yellow from Wastewater
(6th International Symposium on Southeast Asian Water Environment, Indonesia, October 2008).
 86. Detection and Treatment of pharmaceuticals in waste water using electroanalytical technology.
(Presented at DST sponsored cluster of projects meeting on "Sensors/Instrumentation for water Pollution: Physical, Chemical and Biological- Detection and Mitigation", held at NEERI, Nagpur, April 2008).
 87. Effect of Surfactants in the Stripping Voltammetric Response and Determination of an Antidepressant Drug.
(Annual Convention of Chemists, VIT University, Vellore, Tamilnadu, December 02-06, 2009).
 88. Adsorptive and Desorptive Studies on Toxic Dye congo red from Wastewater Using Deoiled Mustard, a Low - Cost Adsorbent.
(Recent Advances in Environmental Protection, International conferences and Exhibition, St. John's College Agra, India, December 17-19, 2009).
 89. Voltammetric Behaviour of Antihypertensive Drug Irbesartan and Method Development for its Determination.
(National Conference on "Chemistry for the Protection of Environment" (NCCPE), December 18-19, 2009. Nagpur).

90. Role of Electroanalytical techniques in detection and identification of organophosphorus compounds.
(Delivered invited talk, "Indo-US Workshop on Chemical and Biological Defense", held at DRDE, Gwalior, January 21-22, 2010).
91. Adsorptive Stripping Voltammetric Behaviour of Nitroxazepine Hydrochloride in Presence of Surfactant and its Determination in Biological Fluids.
(National Seminar on Analytical Electrochemistry held at JNV University, Jodhpur, February 8-10, 2010).
92. Electrochemistry of pharmaceuticals in solubilised systems.
(National Symposium on New Frontiers in Chemical Sciences, held at University of Rajasthan, Jaipur, February 25th, 2010).
93. Workshop-cum Round table discussion meeting on "Identification of Giftedness with Special focus on Science and Mathematics", January 27-29, 2010.
94. International Conference on Green Technologies for Greener Environment,
(CCS University, Meerut, January 27-30, 2010).
95. Cathodic adsorptive stripping voltammetric behaviour and determination of anti-hypertensive drug nimodipine in bulk form and pharmaceutical formulation
(9th International Symposium on Advances in Electrochemical Science and Technology, Karaikudi, Tamil Nadu, December 2-4, 2010).
96. Role of electroanalytical techniques in detection and identification of organophosphorus compounds
(Indo-US Workshop on Chemical and Biological Defence, DRDE, Gwalior, January 21-22, 2010).
97. Voltammetric peak enhancement of cefpirome in cetyltrimethylammonium bromide
(219th ECS Meeting, Montréal, Canada, May 2011).
98. Adsorption and Desorption Study of Hazardous Dye Tartrazine from Waste Water Using Low Cost Adsorbent
(International Conference on Chemistry for Mankind Innovative Ideas in Life Sciences, held at Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, 9-11 February 2011).
99. Voltammetric Studies of Pharmaceuticals at Multiwalled Carbon Nanotube Modified Glassy Carbon Electrode in Solubilised Systems
(National Conference on Chemistry on Challenges to Chemical Science in Twenty First Century held at Department of Chemistry, Hemchandracharya North Gujarat University, Patan, 1-2 February 2011).
100. Adsorption and Desorption Study of Hazardous Dye Tartrazine from Waste Water Using Low Cost Adsorbent
(International Conference on Chemistry for Mankind Innovative Ideas in Life Sciences, held at Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, 9-11 February 2011).
101. Dye removal by low cost adsorbents: De-oiled Mustard in comparison with Activated Carbon
(2nd International Conference on Solid Waste Management in Developing Countries held at Department of Civil Engineering, KUET, Khulna, Bangladesh, 13 to 15 February 2011.)
102. Voltammetric Peak Enhancement of Cefpirome in Cetyltrimethylammonium Bromide
(219th ECS Meeting, Montréal, Canada, May 2011).
103. Application of Electroanalytical Techniques in the Study of Pharmaceuticals in Solubilized Systems

(National Seminar on Recent trends in Biomedical Research held at Department of Chemistry, Dr. Hari Singh Gour University, Sagar (M.P.), 17-18 October 2011).

104. Electrochemistry of Pharmaceuticals in Solubilized Systems
(National Seminar on Innovations and Applications in Engineering and Applied Sciences held at faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya, Haridwar, 9-10 November, 2011).
105. Application of Electroanalytical Techniques in the Study of Pharmaceuticals in Solubilized System
(3rd International conference on Heterocyclic Chemistry held at Department of Chemistry, University of Rajasthan, 10-13 December, 2011).
106. Adsorption and Desorption study of Hazardous Dye Tartrazine from Wastewater Using Low Cost Adsorbent.
(International Conference Chemistry for Mankind: Innovative Ideas in Life Sciences (ICCM-2011), Organized by Chemistry Departments of RTM, Nagpur University, Institute of Sciences, S.F.S. College, Nagpur from 7-9 February 2011).
107. Kinetic Studies on the Adsorption Behaviour of Cefitizoxime in water bodies and wastewater.
(4th Conference on Recent Trends in Instrumental Methods of Analysis, organized by Department of Chemistry, Indian Institute of Technology, IIT, Roorkee, from 18th to 20th February 2011 ROORKEE).
108. Sorption-Desorption Studies of Safranin T from Aqueous Solutions and Wastewater with different Sorbent Materials.
Sardinia 2011 Symposium; 'Sardinia 2011 Waste Management and Landfill Symposium' held at S. Margherita di Pula, Caligari, Italy from 3-7 October 2011).
109. Kinetic and Isotherm Studies of Rhodamine B Removal from Wastewater Using Low Cost Adsorbent.
(National Conference on Advances In Electroanalytical Chemistry, Jiwaji University, Gwalior (M.P.) on 23rd and 24th December 2011).
110. Preparation and Utilization of Orange Fruit Peel for the Removal of Congo red from Wastewater
(The Twenty-Seventh International Conference on Solid Waste Technology and Management held at Philadelphia, PA U.S.A., 11 – 14 March, 2012).
111. Decoloration and Mineralization of Non-biodegradable Toxic Azo Dye Amaranth from Wastewater
(Desalination for the Environment Clean Water and Energy held at Barcelona, Spain, 22–26 April 2012).
112. Adsorption of Textile Dye onto Unsaturated Polyester Resin from Industrial Effluents: Isotherm, Kinetic and Thermodynamic Study
(3rd International Conference on Hazardous and Industrial Waste Management held at Chania, Crete, Greece, 12-14 September 2012).
113. Use of Low Cost Nano-Porous Materials of Orange Fruit Peel Wastes in Removal of Textile Dye
(International Conference on Chemical Sciences, 20-22 June 2012, Colombo, Sri Lanka).
114. Adsorptive Removal of a Hazardous Dye Tartrazine from Water and Wastewater by Activated Gram Husk.
(International Conference on Green Technologies for Environmental Rehabilitation GTER- 2012 (11-14 Feb), Gurukul Kangri Vishwavidyalaya, Haridwar).
115. Adsorption of Hazardous Azo Dye Congo red from Wastewater by Waste Material
(Reference: IWA-9724) Conference: Singapore International Water Week: Water Convention (1-5 July 2012) Singapore.

116. Electrochemistry of Pharmaceuticals in Solubilized Systems
(*National conference on Emerging Trends in Engineering Science, Gurukul Kangri Vishwavidyalaya, Haridwar, 9-10 November, 2013*).
117. A Graphene Based Electrochemical Sensor for Sensitive Detection of Receptor Agonist Rizatriptan in Solubilised System
(*International Conference on Rubber-Like Materials (ICRRM 2013), 6-9 March, 2013, IIT Kharagpur*)
118. Adsorption-Sorption System of Sulfasalazine, Anti-inflammatory Drug onto Nano Talc
(*28th International Conference on Solid Waste Technology & Management, 10 – 13 March, 2013, Philadelphia, PA U.S.A.*)
119. Adsorptive Removal of Sulfasalazine as Anti-inflammatory Drug onto Unsaturated Polyester resin (UPR)
(*8th Annual International Symposium on Environment, 13-16 May, 2013, Athens, Greece.*)
120. Voltammetric Determination of Pramipexole on a New Polyaniline Bismuth Oxide Nanocomposite Film Modified Electrode
(*Techconnect World 2013-nanotech, microtech, biotech, cleantech joint 2013 conference, 12-16 May, 2013, Washington DC, U.S.A.*)
121. Voltammetric Sensor Graphene Modified Glassy Carbon Electrode for Quantification of Receptor Agonist Rizatriptan
(*4th World Congress on Bioavailability & Bioequivalence (BABE), 20-22 May, 2013, Beijing, China.*)
122. Adsorptive Treatment of Pharmaceutical Wastewater Containing Balsalazine Using Unsaturated Polyester Resin (UPR).
(*Cleanup 2013, 5th International Contaminated Site Remediation Conference, 15-18 Sept, Melbourne Australia.*)
123. Highly Sensitive and Selective Electrochemical Sensor for Quantification of Receptor Agonist Rizatriptan in pharmaceutical Formulations.
(*4th World Congress on Biotechnology, 23-25 Sept, 2013, Raleigh, North Carolina, U.S.A.*)
124. Photocatalysis and Mineralization of Anti-inflammatory Drug Balsalazine over Titanium Dioxide in Waste Water.
(*14th International Waste Management & Landfill Symposium, 30th Sept-4th Oct, 2013, Sardinia, Italy.*)
125. A highly sensitive hybrid film sensor for voltammetric detection of calcium antagonist cinnarizine.
(*224th Electrochemical Society Meeting, 27th Oct-1st Nov, 2013, San Francisco, California, USA.*)
126. A Graphene-Silicon Dioxide Nano-composite Electrochemical Sensor for Sensitive Voltammetric Determination of Tizanidine in Solubilized System.
(*Carbon in Electrochemistry: Faraday Discussion 172, University of Sheffield, 28-30 July 2014*)
127. Voltammetric Sensors for Sensing of Pharmaceuticals.
(*3rd International conference of Indian Council of Chemists, Dubai and Abu Dhabi, 10-14th June-2014*)
128. A Chemically Modified Sensor for Electroanalytical Quantification of Clomiphene Citrate in Pharmaceutical Formulations.
(*225th ECS meeting at Hilton Bonnet Creek, Orlando, Florida, USA, 11-15th May 2014*).

129. A Graphene-Polyaniline Hybrid Film Sensor for Voltammetric Quantification.
(National Conference on Innovations in Science and Technology for Inclusive Development, Chaudhary Charan Singh University, Meerut U.P. 22-23 March, 2014).
130. A Highly Sensitive and Selective Bismuth Oxide-Multiwalled Carbon Nanotubes Hybrid Film Sensor for Sensing of Pharmaceuticals.
(101st Indian Science Congress, Jammu, 3-7th February, 2014).
131. A Graphene-Zinc Nanorods Nano-composite Film Sensor for Sensitive Determination of Tizanidine in Solubilized System.
(227th Electrochemical Society Meeting, Chicago, 24-28th May, 2015).
132. Electroanalysis From Tiny Drop Of Mercury To Micro Fluidic Paper-Based Analytical Devices – An Overview
(103rd Indian Science Congress, Mysuru, 3-7th January, 2016).
133. Synthetic polyaniline/graphene oxide nanocomposite: an electrochemical sensor for quantification of clonazepam by Voltammetry
(104th Indian Science Congress, Tirupati, 3-7th January, 2017)
134. Electrocatalytic Detection And Quantification Of Nitazoxanide
(104th Indian Science Congress, Tirupati, 3-7th January, 2017)
135. Development of Fabricated Sensor for Simultaneous Electrochemical Determination of Amlodipine And Nebivolol
(104th Indian Science Congress, Tirupati 3-7th January, 2017)
136. Quantification of Flunarizine on Chemically Modified Electrode in Pharmaceutical Formulation
(104th Indian Science Congress, Tirupati, 3-7th January, 2017)
137. Adsorption of an Antibiotic Drug Norfloxacin From Aqueous Solution Using 3D Porous NiFe₂O₄
(104th Indian Science Congress, Tirupati, 3-7th January, 2017)