

## Curriculum Vitae of Dr. K. P. ELANGO



1. Present Position: Reader in Chemistry
2. Educational Qualification: M.Sc., M.Phil., Ph.D.,
3. Special Training Undergone: Nil
4. Teaching & Research Experience: Teaching 18 years;  
Research 18 years
5. New Courses/Programmes Evolved/Organized: Inorganic Chemistry Courses to  
Ph.D./M.Phil., PG & UG Chemistry  
Students
6. Laboratories/Department Established: Established Inorganic Chemistry Research Lab
7. Involvement in Institute Development: Brought major instruments to the department  
through sponsored research projects.
8. Research Guidance: Number of Ph.D. students    Guiding        8  
   Submitted        2  
   Awarded        2

### 9. Research Projects Undertaken:

#### Major Research Projects Completed

1) Chemometric techniques for rationalization of the solvent effect on the photoreduction of cobalt(III) complexes.

(Sponsored by UGC, New Delhi, March 2006, Rs. 4.61 lakhs)

2) Correlation studies of groundwater quality variables with special reference to fluoride in ten blocks of Dindigul district and development of a viable eco-friendly polymer based defluoridation medium.

(Sponsored by Rajiv Gandhi National Drinking Water Mission, Ministry of Rural Development, Govt. of India, New Delhi, March 2006, Rs. 6.96 lakhs)

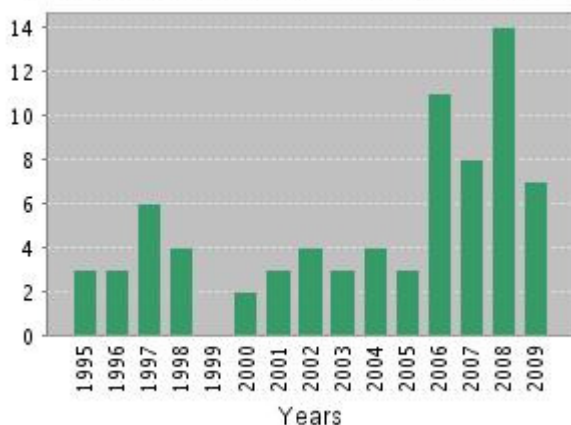
### Ongoing Major Research Project

1) Studies on the Molecular Complexes of Drugs with Biologically Significant Acceptors: A tool to unravel the mechanisms of drug-receptor interactions.

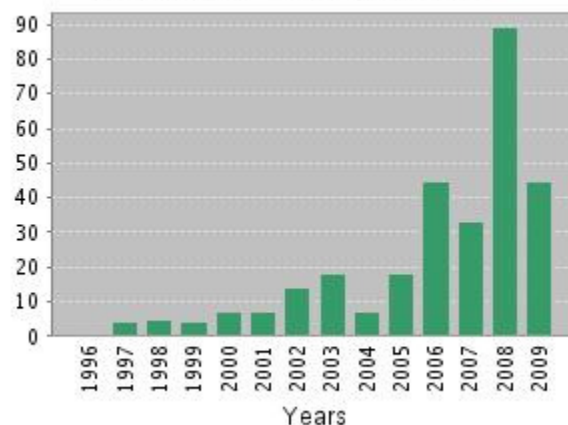
(Sponsored by CSIR, New Delhi, April 2008, Rs. 14.27 lakhs)

**10. List of Publications:      Total Number of Papers Published = 95**  
**Total No. of citations (up to Oct. 09) = 297**

**Published Items in Each Year**



**Citations in Each Year**



1. Preferential solvational effects on the Cr(VI) oxidation of benzylamines in benzene/2-methylpropan-2-ol mixtures.  
A.Thirumoorthi, D.S.Bhuvaneshwari and **K.P.Elango**, *Int. J. Chem. Kinet.*, In Press.
2. Conducting polymer/alumina composites as viable adsorbents for the removal of fluoride ions from aqueous solution.  
M.Karthikeyan, K.K.Satheeshkumar and **K.P.Elango**, *J. Fluorine Chem.*, In Press.
3. Spectroscopic studies on the dynamics of charge transfer interaction of pantoprazole drug with DDQ and iodine.  
M.Pandeeswaran and **K.P.Elango**, *Int. J. Chem. Kinet.*, 41, 787-799 (2009).
4. Differential pulse voltammetric studies of some mixed ligand Co(III) complexes in aquo-organic solvent media possessing different hydrogen bonding properties.  
K.Sivaraj and **K.P.Elango**, *Z. Naturforsch.* In Press.

5. Spectroscopic studies on effect of solvent on the charge transfer complex of atenolol drug with iodine.  
M.Pandeeswaran and **K.P.Elango**, *J. Sol. Chem.*, In Press.
6. Removal of fluoride from water using aluminium containing compounds.  
M.Karthikeyan and **K.P.Elango**, *J. Environ. Sci.*, In Press.
7. Spectroscopic and physicochemical studies on the charge-transfer complex of dextromethorphan drug with iodine.  
M.Pandeeswaran and **K.P.Elango**, *J. Indian Chem. Soc.*, 86, 38-43 (2009).
8. Solvent hydrogen bonding and structural effects on nucleophilic aromatic substitution reactions. Part 2–Reaction of benzenesulphonyl chloride with anilines in propan-2-ol/2-methylpropan-2-ol mixtures.  
D.S.Bhuvaneshwari and **K.P.Elango**, *J. Indian Chem. Soc.*, 86, 233-241 (2009).
9. Solvent hydrogen bonding and structural influences on the Cr(VI) oxidation of anilines in aqueous acetic acid medium.  
D.S.Bhuvaneshwari and **K.P.Elango**, *J. Indian Chem. Soc.*, 86, 242-249 (2009).
10. Removal of fluoride ions from aqueous solution by conducting polypyrrole.  
M.Karthikeyan, K.K.Satheeshkumar and **K.P.Elango**, *J. Hazard. Mater.*, 167, 300-305 (2009).
11. Cobalt(III) complexes of the type *cis*- $\beta$ -[Co(trien)(4-R-Py)Cl]Cl<sub>2</sub>: Synthesis, spectral characterization and redox behaviour.  
K.Sivaraj and **K.P.Elango**, *J. Indian Chem. Soc.*, 86, 869-873 (2009).
12. Removal of fluoride from aqueous solution using graphite: A kinetic and thermodynamic study.  
M.Karthikeyan and **K.P.Elango**, *Indian J. Chem. Technol.*, 15, 525-532 (2008).
13. Electronic, Raman and FT-IR spectral investigations of the charge transfer interactions between ketoconazole and povidone drugs with iodine.  
M.Pandeeswaran and **K.P.Elango**, *Spectrochimica Acta Part A*, 72, 789-795 (2009).
14. Solvent hydrogen bonding and structural effects on nucleophilic substitution reactions: Part 4 – Reaction of 2-chloro-5-nitropyridine with *para*-substituted anilines in acetonitrile/dimethylformamide mixtures.  
D.S.Bhuvaneshwari and **K.P.Elango**, *J. Mol. Liq.*, 143, 147-153 (2008).
15. Defluoridation of water via doping of polyanilines.  
M.Karthikeyan, K.K.Satheeshkumar and **K.P.Elango**, *J. Hazard. Mater.*, 163, 1026-1032 (2009).

16. Solvent hydrogen bonding and structural effects on nucleophilic substitution reactions. Part 5- Reaction of 2-bromo-5-nitropyridine with *para*-substituted anilines in acetonitrile/dimethylformamide mixtures.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Z. Naturforsch.* 63a, 493-504 (2008).
17. Solvational Effects in Terms of Excess Free Energy Function on the Kinetics of Oxidation of Methionine by Quinolinium Chlorochromate.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Oxid. Commun.*, 500 (2008).
18. Solvent and structural effects on the electro- and photo-reduction of cis- $\beta$ -[Co(trien)(RC<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>)Cl]Cl<sub>2</sub> type complexes in water/1,4-dioxane media.  
K.Sivaraj and **K.P.Elango**, *J. Coord. Chem.*, 61, 3008-3020 (2008).
19. Correlation analysis of reactivity in the photo- and electro-reduction of cobalt(III) complexes in aquo-organic solvent medium.  
K.Sivaraj and **K.P.Elango**, *Z. Naturforsch.* 63a, 482-492 (2008).
20. Solvent effects on the spectrokinetic studies on the molecular complexes of dextromethorphan and atenolol drugs with DDQ.  
M.Pandeeswaran and **K.P.Elango**, *Int. J. Chem. Kinet.*, 40, 559-568 (2008).
21. Solvent hydrogen bonding and structural effects on nucleophilic substitution reactions. Part 1- Reaction of benzenesulphonyl chloride with anilines in benzene/2-methylpropan-2-ol.  
D.S.Bhuvaneshwari and **K.P.Elango**, *J. Indian Chem. Soc.*, 84, 1227-1233 (2007).
22. Charge-transfer complexes of ofloxacin, chloropheniramine, azacyclonol and indapamide drugs with 2,3-dichloro-5,6-dicyanobenzoquinone.  
M.Pandeeswaran and **K.P.Elango**, *J. Indian Chem. Soc.*, 85, 399-405 (2008).
23. Synthesis, spectral characterization and electrochemical behaviour of some cobalt(III) complexes of the type cis- $\beta$ -[Co(trien)(RC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>)Cl]Cl<sub>2</sub>.  
K.Sivaraj and **K.P.Elango**, *J. Indian Chem. Soc.*, 85, 365-370 (2008).
24. Effect of excess free energy of solvents on the oxidation of methionine by quinolinium fluorochromate-A kinetic study.  
D.S.Bhuvaneshwari and **K.P.Elango**, *J. Serb. Chem. Soc.*, 73, 735-744 (2008).
25. Kinetic and thermodynamic investigations of adsorption of fluoride onto activated *Aloe vera* carbon.  
V.Gopal and **K.P.Elango**, *J. Indian Chem. Soc.*, 84, 1114-1118 (2007).
26. Electrochemical oxidation of substituted benzylamines in aquo-acetic acid medium: substituent and solvent effects.  
A.Thirumoorthy and **K.P.Elango**, *J. Chem. Sci.*, 119(4) 289-294 (2007).

27. Defluoridation of water using aluminium impregnated activated newspaper carbon.  
M.Karthikeyan and **K.P.Elango**, *Environ. Sci. Indian J.*, 2(3), 187-193 (2007).
28. Solvent hydrogen bonding and structural effects on nucleophilic substitution reactions. Part 3-Reaction of benzenesulphonyl chloride with anilines in benzene/propane-2-ol mixtures.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Int. J. Chem. Kinet.*, 39, 657-663 (2007).
29. Kinetic and thermodynamic studies on the adsorption of dyes onto low cost activated carbon.  
S.Arivoli, M.Sundaravadivelu and **K.P.Elango**, *Environ. Sci. Indian J.*, 2(3), 167-175 (2007).
30. Adsorption of fluoride from aqueous solution by activated carbon.  
V.Gopal and **K.P.Elango**, *J. Ind. Wat. Wks. Assn.*, XXXIX, 183-192 (2007).
31. Equilibrium, kinetic and thermodynamic studies on the adsorption of anionic and cationic dyes onto a low cost activated carbon.  
S.Arivoli, M.Sundaravadivelu and **K.P.Elango**, *Environ. Sci. Indian J.*, 2(3), 176-186 (2007).
32. Sorption of Fe(II), Co(II), Ni(II) and Cu(II) from aqueous solution by low cost activated carbon.  
S.Arivoli, M.Sundaravadivelu and **K.P.Elango**, *Environ. Sci. Indian J.*, In Press.
33. Spectroscopic and kinetic studies on the interaction of ketoconazole and povidone drugs with DDQ  
M. Pandeewaran and **K. P. Elango**, *Spectrochimica Acta Part A*, 69, 1082-1088 (2008).
34. Adsorption of fluoride onto activated newspaper carbon: An equilibrium, kinetic and thermodynamic study.  
V.Gopal and **K.P.Elango**, *Environ. Sci. Indian J.*, 2(2), 75-83 (2007).
35. Preferential solvation effect on the kinetics of oxidation of para-substituted anilines by tetramethylammonium fluorochromate.  
M.Karthikeyan, S.Ghamami, D.S.Bhuvaneshwari and **K.P.Elango**, *J. Indian Chem. Soc.*, 84, 359-364 (2007).
36. Linear free energy relationships in chromium(VI) oxidation of substituted benzylamines in non-aqueous media  
A.Thirumoorthi, D.S.Bhuvaneshwari and **K.P.Elango**, *Int. J. Chem. Kinet.*, 39(6), 362-369 (2007).

37. Solvent and substituent effects on the electrochemical oxidation of substituted benzylamines in 2-methylpropan-2-ol/water medium.  
A.Thirumoorthi and **K.P.Elango**, *Int. J. Chem. Kinet.*, 39, 371-377 (2007).
38. Solvent and substituent effects on the electrochemical oxidation of para- and meta-substituted anilines.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Int. J. Chem. Kinet.*, 39, 289-297 (2007).
39. Effect of solvent on the rate of oxidation of substituted anilines with nictotinium dichromate in aqueous-acetic acid media.  
D.S.Bhuvaneshwari and **K.P.Elango**, *J. Indian Chem. Soc.*, 83, 999-1005 (2006).
40. Adsorption of fluoride onto magnesia – Equilibrium and thermodynamic study.  
V. Aravind and **K.P.Elango**, *Indian J. Chem. Technol.*, 13, 476-483 (2006).
41. Equilibrium, kinetic and thermodynamic studies of adsorption of fluoride onto plaster of Paris.  
V.Gopal and **K.P.Elango**, *J. Hazard. Materials*, 141(1), 98-105 (2007).
42. Substituent and solvent effects on the electrochemical oxidation of *para*- and *meta*-substituted anilines.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Z. Naturforsch.* 61B, 1254-1260 (2006).
43. Solvent effects on the kinetics of oxidation of methionine by nicotinium dichromate.  
D.Malarvili, M.Pandeeswaran, D.S.Bhuvaneshwari and **K.P.Elango**, *J. Indian Chem. Soc.*, 83, 895-898 (2006).
44. Correlation analysis of reactivity in the oxidation of anilines by nicotinium dichromate in non-aqueous media.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Int. J. Chem. Kinet.*, 38(11), 657-665 (2006).
45. Preferential solvation effects on the kinetics and thermodynamics of oxidation of anilines by chromium(VI).  
D.S.Bhuvaneshwari and **K.P.Elango**, *Z. Phys. Chem.*, 220, 697-721 (2006).
46. Solvent effect on the charge transfer complex of oxatomide with 2,3-Dichloro-5,6-dicyanobenzoquinone.  
M.Pandeeswaran and **K.P.Elango**, *Spectrochim. Acta Part A*, 65, 1148-1153 (2006).
47. Synthesis and spectral characterization of lanthanide complexes with sulphamethoxazole and their antibacterial activity.  
G.Karthikeyan, K.Mohanraj, **K.P.Elango** and K.Girishkumar, *Russ. J. Coord. Chem.*, 32(5), 380-385 (2006).

48. Kinetics of oxidation of methionine by tetramethylammonium fluorochromate in aquo-organic medium-Separation of solvent effect into contributions to initial and transition states.  
M.Balacrisknan, S.Ghammami and **K.P.Elango**, *J. Indian Chem. Soc.*, 83(5), 1-3 (2006).
49. Solvation model for the oxidation of methionine by imidazolium fluorochromate in aqueous acetic acid medium.  
B.John, M.Pandeeswaran, D.S.Bhuvaneshwari and **K.P.Elango**, *J. Serb. Chem. Soc.*, 71(1), 19-25 (2006).
50. Studies on the kinetics of imidazolium fluorochromate oxidation of some meta- and para-substituted anilines in non-aqueous media.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Int. J. Chem. Kinet.*, 38, 166-175 (2006).
51. Contrasting solvent effects on the oxidation of methionine by quinolinium fluorochromate.  
D.S.Bhuvaneshwari, B.John, M.Pandeeswaran, and **K.P.Elango**, *J. Indian Chem. Soc.*, 82(7), 616-619 (2005).
52. Effect of preferential solvation on the kinetics and thermodynamics of oxidation of anilines by nicotinium dichromate.  
D.S.Bhuvaneshwari and **K.P.Elango**, *Z. Naturforsch.* 60b, 1105 – 1111 (2005).
53. Kinetics and mechanism of oxidation of methionine by quinolinium chlorochromate.  
M.Pandeeswaran, Bincy John, D.S.Bhuvaneshwari and **K.P.Elango**, *J. Serb. Chem. Soc.*, 70(2), 145-151 (2005).
54. The use of free energy relationships to rationalize structural and solvent effects on the photoreduction of cobalt(III) complexes in aqueous organic solvent medium.  
**K.P.Elango**, *J. Chem. Res.*, 794-796 (2004).
55. Solvent and substituent effects on the photoreduction of cobalt(III)-aryl amine complexes in aquo-organic solvent medium.  
**K.P.Elango**, *Transition Met. Chem.*, 29(2), 125-128 (2004).
56. Synthesis and spectral characterization of lanthanide(III) complexes of trimethoprim.  
G.Karthikeyan, K.Mohanraj, **K.P.Elango** and K.Girishkumar, *J. Chem. Res.*, 200-202 (2004).
57. Synthesis, spectroscopic characterization and antibacterial activity of lanthanide-tetracycline complexes.  
G.Karthikeyan, K.Mohanraj, **K.P.Elango** and K.Girishkumar, *Transition Met. Chem.*, 29, 86-90 (2004).

58. Fluoride dependence on water quality parameters and mapping of fluorotic areas of Bargur block of Dharmapuri district – A Case Study.  
A.Shunmugasundarraaj, G.Karthikeyan and **K.P.Elango**, *Ind. J. Environ. Protec.*, 24(3), 202-206 (2004).
59. Effect of structure, solvent and temperature on the kinetics of corrosion of mild steel in acid medium.  
P.Sudha, S.Menaka and **K.P.Elango**, *Transactions of SAEST*, 39, 17-21 (2004).
60. Mapping of fluoride endemic areas and correlation studies of fluoride with other quality parameters of drinking water of Veepanapalli block of Dharmapuri district in Tamil Nadu.  
A.Shunmugasundarraaj, G.Karthikeyan and **K.P.Elango**, *Ind. J. Environ. Health*, 45(4), 281-284 (2003).
61. Chemometric studies of water quality parameters of Palacode block of Dharmapuri district in Tamil Nadu.  
A.Shunmugasundarraaj, G.Karthikeyan and **K.P.Elango**, *J. Ind. Wat. Wks. Assn.*, 35(4), 279-282 (2003).
62. Adsorption dynamics and the effect of temperature of fluoride at alumina-solution interface. G.Karthikeyan, A.Shunmugasundarraaj, S.Meenakshi and **K.P.Elango**, *J. Indian Chem. Soc.*, 81, 461-466 (2003).
63. Solvent effects on the photoreduction of *trans*-[Co(tn)<sub>2</sub>Cl<sub>2</sub>]Cl in aquo-organic solvent media.  
**K.P.Elango** and G.Vijaya kumar, *Afinidad*, 60, 495-498 (2003).
64. Oxidation of substituted benzaldehydes by quinolinium chlorochromate: A structure and solvent dependence kinetics study.  
G.Fatima Jeyanthi and **K.P.Elango**, *Int. J. Chem. Kinet.*, 35(4), 154-158 (2003).
65. Solvent and structural effects on the photoreduction of cobalt(III)-aryl amine complexes in water-organic solvent media.  
G.Karthikeyan, K.Anbalagan and **K.P.Elango**, *Russ. J. Coord. Chem.*, 29(4), 237-244 (2003).
66. Solvent and chelation effects on the photoreduction of cobalt(III)-amine complexes in aquo-organic solvent media.  
G.Karthikeyan, K.Anbalagan and **K.P.Elango**, *Transition Met. Chem.*, 27, 52 (2002).
67. Solvent and structural effects on the oxidation of 2,6-diphenyl-piperidin-4-ones by quinolinium chlorochromate.  
S.Saravana kanna and **K.P.Elango**, *Int. J. Chem. Kinet.*, 34(10), 585-588 (2002).

68. Separation of the effect of solvent on the oxidation of 3-R-2,6-diphenyl-piperidin-4-ones by QCC in partial aqueous medium into contributions to initial and transition state.  
J.R.C.Ramya Vijayakumari and **K.P.Elango**, *J. Indian Chem. Soc.*, 79, 834-836 (2002).
69. Structural effects on the kinetics of corrosion of mild steel in acid medium.  
G.Karthikeyan, V.Ezhilselvi, M.Sumathy and **K.P.Elango**, *Transactions of SAEEST*, 37(2), 55-57 (2002).
70. The effect of solvent on the kinetics of the oxidation of benzaldehydes by Quinolinium Chlorochromate in aqueous organic solvent media.  
G.Fatima Jeyanthi, G.Vijayakumar and **K.P.Elango**, *J. Serb. Chem. Soc.*, 67(12), 803-808 (2002).
71. Solvent effect on the kinetics of oxidation of 3-methyl-2,6-diphenyl-piperidine-4-one by PCC. V.Ramesh, M.Sumathy, K.Karunakaran and **K.P.Elango**, *Oxid. Commun.*, 24(2), 241 (2001).
72. The effect of solvent on the kinetics of oxidation of 3-methyl-2,6-diphenyl-piperidin-4-one by quinolinium fluorochromate in aqueous organic media.  
**K.P.Elango**. *J.Serb. Chem. Soc.*, 66(6), 359 (2001).
73. Outer-sphere redox reactions of cobalt(III)-amine complexes. A solvent, chelation and temperature-dependence kinetic study.  
G.Karthikeyan, K.Anbalagan and **K.P.Elango**, *J. Chem. Res.(M)*, 919-946 (2001).
74. Correlation analysis of reactivity in the reduction of various *trans*-chloro(R-aniline)bis(1,2-diaminoethane)cobalt(III) complexes by iron(II) complex in aqueous methanol mixtures.  
G.Karthikeyan, K.Anbalagan and **K.P.Elango**, *Transition Met. Chem.*, 25, 213 (2000).
75. Solvent and structural effects on the reduction of some *trans*-chloro(R-aniline)bis(1,2-diaminoethane)cobalt(III) complexes by hexacyanoferrate(II) in water-1,4-dioxane media.  
G.Karthikeyan, K.Anbalagan and **K.P.Elango**, *Russ. J. Coord. Chem.*, 26(8), 592 (2000).
76. Kinetics and mechanism of oxidation of aromatic anils by quinolinium chlorochromate.  
G.Karthikeyan, **K.P.Elango**, K.Karunakaran and A.Balasubramanian, *Oxid. Commun.*, 21(1), 51 (1998).

77. Medium effects on the reduction kinetics of trans-dichlorobis(1,2-diaminopropane)cobalt(III) by hexacyanoferrate(II) in aqueous organic solvents.  
**K.P.Elango**, K.Anbalagan and G.Karthikeyan, *Bull. Chem. Soc. Ethiop.*, 12(2), 1 (1998).
78. Steric and resonance effects on the kinetics of oxidation of organic sulphides by quinolinium chlorochromate.  
K.Karunakaran and **K.P.Elango**, *J. Indian Chem. Soc.*, 75(5), 27 (1998).
79. Interactive free energy relationship on the oxidation of aromatic anils by pyridinium chlorochromate.  
K.Karunakaran and **K.P.Elango**, *J. Indian Chem. Soc.*, 75(5), 49 (1998).
80. Kinetics of Ru(III) catalysed oxidation of arylthioacetic acids by Ce(IV).  
K.Karunakaran and **K.P.Elango**, *React. Kinet. Cata. Letts.*, 62(2), 353 (1997).
81. Kinetics and mechanism of oxidation of benzal methylphenyl sulphides by V(V).  
K.Karunakaran and **K.P.Elango**, *J. Indian Chem. Soc.*, 74(4), 299 (1997).
82. Kinetics of oxidation of thiodiglycollic acid by trans-K[Mn(cdta)].  
**K.P.Elango** and K.Karunakaran, *Oxid. Commun.*, 20(2), 243 (1997).
83. Interactive free energy relationship on the oxidation of aromatic anils by phenyliodoso acetate.  
K.Karunakaran, S.Nagarajan, D.Kanagavel, T.N.Jegathesan, P.N.Palanisamy and **K.P.Elango**, *Oxid. Commun.*, 29(4), 576 (1997).
84. Correlation analysis of reactivity in the oxidation of aromatic anils by pyridinium fluoro-chromate.  
G.Karthikeyan, **K.P.Elango** and K.Karunakaran, *J. Indian Chem. Soc.*, 74(10), 798 (1997).
85. Solvent dependence of electron transfer reaction between trans-dichlorobis(1,2-diaminoethane)cobalt(III) complex and hexacyanoferrate(II) in binary solvent mixtures.  
**K.P.Elango**, K.Anbalagan and G.Karthikeyan, *J. Serb. Chem. Soc.*, 62(12), 1187 (1997).
86. Duality in the oxidation of (phenylthio)acetic acids by V(V) and iron(II).  
K.Karunakaran, R.Gurumoorthy and **K.P.Elango**, *Indian J. Chem.*, 36A(11), 984 (1997).
87. Kinetics and mechanism of oxidation of phenoxyacetic acids by periodate complex of Cu(II).  
**K.P.Elango** and K.Karunakaran, *Oxid. Commun.*, 19(1), 44 (1996).

88. Kinetics of oxidation of phenoxyacetic acids by pyridinium hydrobromide perbromide.  
K.Karunakaran and **K.P.Elango**, *J. Phys. Org. Chem.*, 9, 105 (1996).
89. Kinetics and mechanism of oxidation of substituted benzaldehydes by quinolinium flurochromate.  
**K.P.Elango** and K.Karunakaran, *Oxid. Commun.*, 19(1), 50 (1996).
90. Kinetics of oxidation of substituted benzaldehydes by quinolinium chlorochromate.  
**K.P.Elango** and K.Karunakaran, *Asian J. Chem.*, 7(4), 798 (1995).
91. Kinetics and mechanism of oxidation of (arylthio)acetic acids by pyridinium hydrobromide perbromide.  
K.Karunakaran and **K.P.Elango**, *J. Phys. Org. Chem.*, 8, 429 (1995).
92. Kinetics and mechanism of oxidation of thiodiglycollic acid by quinolinium flurochromate and quinolinium chlorochromate,  
G.Karthikeyan, **K.P.Elango**, V.Periyasamy, K.Vijayakumar and K.Karunakaran, *Asian J. Chem.*, 7(4), 705 (1995).
93. Kinetics of oxalic acid catalysed oxidation of thiodiglycollic acid by V(V).  
G.Karthikeyan, **K.P.Elango** and A.Balasubramanian, *Asian J.Pure & Appl. Chem.*, 1(2), 79 (1995).
94. Kinetics and mechanism of Ru(III) catalysed oxidation of phenoxyacetic acids by lead tetraacetate.  
K.Karunakaran and **K.P.Elango**, *Oxid. Commun.*, 17(4), 274 (1994).
95. A comparative study on the kinetics of oxidation of thiodiglycollic acid by PCC and Ce(IV).  
**K.P.Elango** and N.Bhavani, *Asian J. Chem.*, 6(3), 493 (1994).

#### 11. Short Term Courses/Symposium/Conferences Attended:

##### **International Level**

- i) Member, International Scientific Advisory Committee for the International Conference on Coordination & Organometallic Chemistry organized by Department of Chemistry, Bharathiar University, Coimbatore during 19 & 20<sup>th</sup> March 2009.

- ii) The 8<sup>th</sup> International Conference on Correlation Analysis in Chemistry. Organized by The International Group of Correlation Analysis in Chemistry, held at CLRI, Chennai during January 10-14<sup>th</sup> 1999.

### **National Level**

- i) National Symposium on Natural Resources and their Conservation, held at A.V.C. College, Mannampanthal, during February 15-17<sup>th</sup> 1989.
- ii) National Seminar on Correlation Analysis, held at Annamalai University, Annamalai Nagar, during January 20-22<sup>nd</sup> 1995.
- iii) UGC-DRS National Seminar on New Trends in Dynamic and Structural Studies in Inorganic and Physical Chemistry, held at Madurai Kamaraj University, Madurai, during March 1-3<sup>rd</sup> 1995.
- iv) 33<sup>rd</sup> Annual Convention of Chemists, held at P.S.G. College of Technology, Coimbatore, during December 26-29<sup>th</sup> 1996.
- v) 16<sup>th</sup> National Conference of Indian Council of Chemists, held at Mangalore University, Mangalore, during December 29-31<sup>st</sup> 1997.
- vi) National Seminar on Current Trends in Chemistry, held at Annamalai University, Annamalai Nagar, during March 16-18<sup>th</sup> 1998.
- vii) 35<sup>th</sup> Annual Convention of Chemists, held at Karnatak University, Dharwad, during December 28-31<sup>st</sup> 1998.
- viii) 38<sup>th</sup> Annual Convention of Chemists, held at J.N.V. University, Jodhpur, during December 26-29<sup>th</sup> 2001.
- ix) CRSI Seminar on Recent Advances in Chemistry held at Annamalai University, Annamalai Nagar during March 10-11<sup>th</sup> 2006.

- x) 43rd Annual Convention of Chemists held at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during 23-27th December, 2006.
- xi) National Seminar on Emerging Trends in Chemoinformatics held at St. Berchmans College, Changanacherry on March 8<sup>th</sup> 2006.
- xii) National Conference on Recent Trends in Coordination and Organometallic Chemistry held at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore during 17-18<sup>th</sup> July 2008 as a member in Scientific and Technical Committee.

#### 12. Short Term Courses/Symposium/Conferences Organized:

1. Convener, UGC Refresher Course in Environmental Sciences for University and College Teachers held at GRU, Gandhigram during September 10-30<sup>th</sup> 2003.
2. Coordinator, Young Student Scientist Programme for Dindigul and Theni district students, Sponsored by Tamil Nadu State Council for Science and Technology during May 2000, 2001, 2004 and 2005.

#### 13. Membership in Scientific Bodies/Association:

1. Life Member (F/3266), Indian Chemical Society, Kolkatta, India
2. Member, Board of Studies in Chemistry, Sri Ramakrishna Mission Vidyalaya Arts and Science College, Coimbatore.
3. Member, Board of Studies in Chemistry in PRIST, Tanjore.
4. Member, Doctoral Committee for Ph.D. students, Anna University, Coimbatore
5. Member, Academic Audit Committee, P.S.G.R. Krishnammal College, Coimbatore.
6. Member, Academic Audit Committee, Sri Ramakrishna Mission Vidyalaya Arts and Science College, Coimbatore.

7. Member in setting and evaluation board for Ph.D./M.Phil./M.Sc. students in many Universities and Colleges.
8. Member, Board of Studies in Chemistry & Academic Council GRI, Gandhigram

14. Resource Person:

1. Delivered an Invited Lecture at the National Seminar on New Vistas in Material Science on 28<sup>th</sup> August 2009 at Sri Paramakalyani College, Alwarkurichi.
2. Delivered an Invited Lecture at the UGC sponsored National Seminar on Emerging Trends in Medicinal and Analytical Chemistry on 7<sup>th</sup> March 2009 at St. Joseph's College, Tiruchirappalli.
3. Delivered an Invited Lecture at the National Conference on Recent Advances in Metalloorganic Chemistry on 16<sup>th</sup> October 2008 at Priyar University, Salem.
4. Delivered an Invited Lecture at the National Conference on Recent Trends in Environmental Management & Technology on 14<sup>th</sup> August 2008 at N.G.M. College, Pollachi.
5. Delivered an Invited Lecture at the 43rd Annual Convention of Chemists during 23-27<sup>th</sup> December, 2006 at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and organized by Indian Chemical Society, Kolkata.
6. Delivered an Invited Lecture at the National Seminar on Emerging Trends in Chemoinformatics on 8<sup>th</sup> March 2006 at St. Berchmans College, Changanacherry, Kottayam, Kerala.

7. Chaired the State Level Paper Presentation Session on 13<sup>th</sup> February 2002 at Kongu Engineering College, Perundurai, Erode.
8. Delivered a Guest Lecture at the Chemical Society Meeting on 28<sup>th</sup> August 2002 at P.S.G.R. Krishnammal College for Women, Coimbatore.

15. Reviewer for Journals

Journal of Chemical & Engineering Data (ACS)  
International Journal of Chemical Kinetics (Wiley)  
Heteroatom Chemistry (Wiley)  
Spectrochimica Acta Part A (Elsevier)  
Desalination (Elsevier)  
Journal of Hazardous Materials (Elsevier)  
Journal of Serbian Chemical Society (SCS)  
Journal of Indian Chemical Society (ICS)  
Indian Journal of Chemical Technology (CSIR)

16. Recognition:

1. Member, International Scientific Advisory Committee for the International Conference on Coordination & Organometallic Chemistry organized by Department of Chemistry, Bharathiar University, Coimbatore during 19 & 20<sup>th</sup> March 2009.
2. Member in Scientific and Technical Committee, National Conference on Recent Trends in Coordination and Organometallic Chemistry held at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore during 17-18<sup>th</sup> July 2008.

17. Committee Member: Nil

18. Fellowships Received: Nil

19. Foreign Countries Visited: Nil

20. Administrative Experience:

Director in-charge for University Science Instrumentation Centre (USIC), GRI, Gandhigram

21. Others: Organized the following activities.

1. Science popularization among rural people, a part of National Science Day Celebrations, cycle jatha to Narasingapuram, February, 1993, 1994 and 1996.
2. Organized Village Placement Programme for PG and UG Chemistry students at Kasipalayam (April 1998), at Melakottai (January 2000), at Muruganpatty (January 2002), at Muruganpatty (January 2003), at Hanumantharayankottai (January 2006), and at Pappanampatty (September 2008).
3. Served as a subject coordinator in the Young Student Scientist Programme for the students of Dindigul and Theni districts, sponsored by Tamil Nadu State Council for Science and Technology, Chennai, held at GRI, Gandhigram, during May 2000, 2001, 2004 and 2005.
4. Served as a Dy. Chief Superintend for GRI University Examinations, several times. Served as additional superintend for GRI paper evaluation, twice.
5. Served as Additional Chief Superintend for Tamil Nadu Professional Courses Entrance Examinations, thrice.
6. Actively participated in all the extension activities of the Department of Chemistry.

(K.P.ELANGO)