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Present Position

Professor, Centre for Environmental Studies, College of Engineering Guindy, Anna University, Chennai from January-2009.

Present Additional Responsibility

- Director, Centre for Climate Change and Adaptation Research, Anna University, Chennai from February-2014.

Previous Positions

- Lecturer, Centre for Environmental Studies, College of Engineering Guindy, Anna University, Chennai from November-1992.

Previous Additional Responsibility

- , , Anna University, Chennai.

Other Employment

- Project Officer, IIT Madras, Chennai for one year.

Degree

- ❖ M.Sc. in CHEMISTRY , , Annamalai University (1983 - 1985).

Research Degree

- ❖ Ph.D. in Environmental Analytical Chemistry IIT, Madras, IIT, Madras (1986 - 1991).
Title: Concentration, Separation and Determination of Trace Amounts of Arsenic.

Area of Specialisation

- Environmental Chemistry

Membership in Professional Organization

- > ISTE(LM12917), NESA(LM 1664)

Research Guidance

Number of Ph.D Scholars Guided	: 14
Number of Ph.D Scholars Guiding	: 10
Number of M.S (By Research) Students Guided	: 2
Number of M.E./ M.Tech. Projects Guided	: 54
Number of M.E./ M.Tech. Projects Guiding	: 1
Number of Ph.D Scholars Guided as Joint-Supervisor	: 5
Number of M.S (By Research) Students Guiding as Joint-Supervisor	: 2

Papers Published in Journals

Research Papers Published in International Journals	: 85
Research Papers Published in National Journals	: 40

1. R. Gurusurthy, M. Uma and K. Palanivelu, "Kinetics and Mechanism of Chlorination of Toluene by 1- Chlorobenzotriazole", J. Indian Council of Chemists, pp. 81-84 (1988).
2. T.V. Ramakrishna and K. Palanivelu, "Concentration and Determination of traces of Arsenic and Phosphorus in Natural Waters", Indian J. Environ. Protection, Vol. 9, pp. 265-271 (1989).
3. K. Palanivelu and T.V. Ramakrishna, " Separation and Spectrophotometric Determination of trace amounts of Arsenic as the ternary complex with molybdate and rhodamine B", Indian Journal of Technology, Vol. 28, pp. 67-70 (1990).
4. K. Palanivelu, N. Balasubramanian and T.V. Ramakrishna, " A Chemical Enhancement method for the Spectrophotometric determination of trace amounts of Arsenic", Talanta, Vol. 39, Issue 5, pp. 555-561 (1992).
5. S. Raghavan, K. Palanivelu, S. Esakku and S. K. Seshadri, "Thermodynamic activities at 1256 K in the Nickel Oxide-Magnesium Oxide - Zinc Oxide using - Solid - State Galvanic Cell", Journal of Materials Science Letters, Vol. 12, pp. 1927-1929 (1993).
6. K. Palanivelu and N. Elangovan, "Evaluation of adsorbent for phosphate removal", Ind. J. Env. Protection, Vol. 14, pp. 688-689 (1994).
7. K. Palanivelu and N. Elangovan, "Phosphate Removal Studies using Aluminium Impregnated coconut shell carbon, ", Indian J. Environ. Protection, Vol. 16, pp. 183-185 (1996).
8. K. Palanivelu and D. Rajkumar, "Sequential Determination of Cr (III) and Cr (VI) in water ", Indian J. Environ. Protection, Vol. 18, pp. 413-417 (1998).

9. K. Palanivelu, K.R. Ranganathan and D. Santhanala Lakshmi, "Removal and recovery of chromium by Liquid membrane ", Journal of Scientific and Industrial Research, published by NISCAIR. Vol. 57, pp. 903-906 (1998).
10. T.S. Kumaravel and K. Palanivelu, "Solidification / Stabilization of Hazardous Arsenic waste from a fertilizer plant ", Journal of Scientific and Industrial Research, published by NISCAIR. Vol. 59, pp. 477-481 (2000).
11. D. Rajkumar, K. Palanivelu and N. Mohan, " Electrochemical oxidation of resorcinol for waste water treatment using Ti/TiO₂-RuO₂-IrO₂ electrode ", J.Environ.Sci.Health, published by Taylor & Francis. Issue 19, pp. 1997-2001 (2001).
12. K. Palanivelu and R. Rajakumar, "Characterisation and leachability studies on textile effluent treatment plant sludge", Env. Poll. Control, Jr, Vol. 5, Issue 1, pp. 38-40 (2001).
13. D. Rajkumar and K. Palanivelu, "Electrochemical Degradation of Cresols for Wastewater Treatment", Ind.Eng. Chem. Res, published by American Chemical Society. Vol. 42, Issue 9, pp. 1833-1839 (2003).
14. V.Kavitha and K. Palanivelu, " Degradation of 2-Chlorophenol by Fenton and Photo-Fenton Processes-A Comparative Stud", J.Environ.Sci.Health, published by Taylor & Francis. Issue 9, pp. 1215-1231 (2003).
15. D. Rajkumar, K. Palanivelu and N. Mohan, "Electrochemical degradation of resorcinol using mixed oxide coated titanium electrode for wastewater treatment – A kinetic study", Ind.J.Chem. Tech , published by NISCAIR. Vol. 10, pp. 396-401 (2003).
16. N.Priya and K. Palanivelu, "Destruction of cyanide in aqueous waste by electrochemical oxidation", Annali di chimica, Vol. 93, Issue 9, pp. 811-815 (2003).
17. P.Venkateswaran and K.Palanivelu, "Solvent extraction of hexavalent chromium with tetrabutyl ammonium bromide from aqueous solution", Separation Purification Technology, published by Elsevier. Vol. 40, pp. 279-284 (2004).
18. D. Rajkumar and K. Palanivelu, "Electrochemical Treatment of Industrial Wastewater", Journal of Hazardous materials, published by Elsevier. Vol. 113, Issue 1, pp. 123-129 (2004).
19. K.Vijayaraghavan, J.Jegan K. Palanivelu and M.Velan,, " Removal of nickel (II) ions from aqueous solution using crab shell particles in a packed bed up-flow column, ", Journal of Hazardous materials, published by Elsevier. Vol. 113, Issue 1, pp. 223-230 (2004).
20. K.Vijayaraghavan, J.R.Jegan, K. Palanivelu and M.Velan, "Copper removal from aqueous solution by marine green alga *Ulva reticulata*", Electronic Journal of Biotechnology, Vol. 7, Issue 1, pp. 61-71 (2004).
21. V.Kavitha and K. Palanivelu, "The role of ferrous ion in Fenton and photo-Fenton process for the degradation of phenol", Chemosphere, published by Elsevier. Vol. 55, pp. 1235-1243 (2004).
22. G.Muthuraman and K.Palanivelu, "Removal and recovery of low salt dye golden yellow LS by liquid-liquid extraction", Indian journal of Chemical Technology, published by NISCAIR. Vol. 11, Issue 2, pp. 166-169 (2004).

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23. S.Esakku, R.Raghav, N.Balasubramanian, K. Palanivelu, "Elimination of mercuric sulphate in COD determination", *Indian Chemical Engineer* , Vol. 46, Issue 2, pp. 122-125 (2004).
 24. J.Senthilnathan, S.Mohan, K.Palanivelu, "Recovery of Chromium from Electroplating Wastewater using Di 2-(Ethylhexyl) Phosphoric acid", *Separation Science and Technology*, published by Taylor and Francis. Vol. 40, pp. 2125-2137 (2005).
 25. G.Muthuraman and K.Palanivelu, "Transport of textile anionic dyes using cationic carrier by bulk liquid membrane", *Journal of Scientific and Industrial Research* , published by NISCAIR. Vol. 64, pp. 529-533 (2005).
 26. V.kavitha and K.Palanivelu, " Destruction of cresols by Fenton oxidation process", *Water Research*, published by Elsevier. Vol. 39, Issue 13, pp. 3062-3072 (2005).
 27. M.Nisha and K.Palanivelu, "Solar energy driven electrochemical degradation of reactive dye green HE4BD", *ColourationTechnology*, published by wiley. Vol. 121, pp. 198-202 (2005).
 28. R.Anupama and K.Palanivelu, " Removal and recovery of lead from aqueous solution using supported liquid membrane", *Indian journal of chemical technology*, published by NISCAIR. Vol. 12, pp. 436-440 (2005).
 29. Sebasthiar Esakku, Ammaiyappan Selvam, Kurian Joseph and Kandasamy Palanivelu, "Assessment of Heavy metal Species in decomposed Municipal Solid Waste", *Chemical Speciation and bioavailability*, published by Science reviews 2000 ltd. Vol. 17, Issue 3, pp. 95-102 (2005).
 30. J.Senthilnathan, S.Mohan, K.Palanivelu, "Selective Transport of Chromium (III) ion using a Supported Liquid Membrane", *Indian surface finishing*, published by Metal Finishers' Association of India. Vol. 2, Issue 3, pp. 392-402 (2005).
 31. Meghna Dilip, G. Muthuraman and K. Palanivelu, "Removal of textile dyes from aqueous solution using PEG based aqueous biphasic system", *Toxicological and Environmental Chemistry*, published by Taylor and Francis. Vol. 87, Issue 4, pp. 499-507 (2005).
 32. M.Nisha Priya, S. Esakku, K. Palanivelu, "Electrochemical treatment of landfill leachate", *Indian Chemical Engineer* , published by Taylor and Francis. Vol. 47, Issue 4, pp. 272-276 (2005).
 33. Meghna Dilip, P.Venkateswari and K. Palanivelu, "Removal of textile dyes from textile dye effluent using TBAB based aqueous biphasic system", *Journal of Environmental Science & Engineering*, published by National Environmental Engineering Research Instit. Vol. 47, Issue 3, pp. 176-181 (2005).
 34. Sunitha.C and K.Palanivelu, "Management of metal bearing industrial solid waste by stabilization/solidification process", *Journal of Indian Association for Environmental management*, published by National Environmental Engineering Research Instit. Vol. 32, Issue 2, pp. 91-95 (2005).
 35. K. Vijayaraghavan, J. Jegan, K.Palanivelu and M. Velan, "Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornata*", *Chemical Engineering Journal*, published by Elsevier. Vol. 106, Issue 2, pp. 177-184 (2005).

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36. P. K Raghu Prasad, M Nisha Priya and K. Palanivelu, "Nitrate removal from ground water using electrolytic reduction method", *Indian journal of Chemical Technology*, published by NISCAIR. Vol. 12, pp. 164-169 (2005).
 37. V.Kavitha and K. Palanivelu, "Degradation of nitrophenols by Fenton and photo-Fenton processes", *Journal of Photochemistry and Photobiology A: Chemistry*, published by Elsevier. Vol. 170, pp. 83-95 (2005).
 38. D. Rajkumar, N. Balasubramanian and K. Palanivelu, "Combined electrochemical degradation and activated carbon adsorption treatments for wastewater containing mixed phenolic compounds", *Journal of Environmental Engineering and Science*, published by National Research Council Canada. Vol. 4, pp. 1-9 (2005).
 39. G. Muthuraman and K. Palanivelu, "Selective extraction and separation of textile anionic dyes from aqueous solution by TBAB", *Dyes and Pigments*, published by Elsevier. Vol. 64, pp. 251-257 (2005).
 40. K. Vijayaraghavan, J. Jegan K. Palanivelu and M. Velan, "Removal and recovery of copper from aqueous solution by eggshell in a packed column", *Mineral Engineering*, published by Elsevier. Vol. 18, Issue 5, pp. 545-547 (2005).
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 44. K. Vijayaraghavan, M. Thilakavathi, K. Palanivelu and M. Velan, "Continuous sorption of copper and cobalt by crab shell particles in a packed column", *Environmental Technology*, published by Taylor and Francis. Vol. 23, Issue 3, pp. 267-276 (2005).
 45. K. Vijayaraghavan, J. Jegan, K. Palanivelu and M. Velan, "Biosorption of copper, cobalt and nickel by marine green alga *Ulva reticulata* in a packed column", *Chemosphere*, published by Elsevier. Vol. 60, Issue 3, pp. 419-426 (2005).
 46. K. Vijayaraghavan, J. Jegan, K. Palanivelu and M. Velan, "Biosorption of cobalt (II) and nickel (II) by seaweeds; Batch and column studies", *Separation & Purification Technology*, published by Elsevier. Vol. 44, Issue 1, pp. 53-59 (2005).
 47. K. Vijayaraghavan, K. Palanivelu and M. Velan, "Crab shell based biosorption technology for the treatment of Nickel bearing electroplating industrial effluents", *Journal of Hazardous materials*, published by Elsevier. Vol. 119, Issue 1, pp. 251-254 (2005).
 48. M. Chandramowleeswaran and K. Palanivelu, "Treatability studies on textile effluent for total dissolved solids reduction using electrodialysis", *Desalination*, published by Elsevier. Vol. 201, Issue 1, pp. 164-174 (2006).

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49. G. Muthuraman, and K. Palanivelu, "Removal of CI Reactive Yellow 125, CI Reactive Red 158, CI Reactie Red 159 dyes from aqueous solution with a supported liquid membrane containing tri-butyl phosphate as carrier ", The Journal of Textile Institute, published by Taylor and Francis. Vol. 97, Issue 4, pp. 341-374 (2006).
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 52. N.Hajarabeevi, I. Mohammed Bilal and K.Palanivelu, "Solvent extraction of silk dyes Acid Red 10 B and Acid Pink using tri-n-butyl phosphate as carrier", Indian Chemical Engineer , published by NISCAIR. Vol. 48, Issue 3, pp. 154-159 (2006).
 53. M.Nisha Priya and K.Palanivelu, "Removal of total dissolved solids with simultaneous recovery of acid and alkali using bipolar membrane electrolysis-Application to RO reject of textile effluent", Indian Journal of Chemical Technology, published by NISCAIR. Vol. 13, pp. 262-268 (2006).
 54. S.Esakku,A.Selvam,K.Palanivelu,R.nagendran and Kurian Joseph, "Leachate quality of municipal solid waste dumpsites at Chennai, India", Asian Journal of Water,Environment and Pollution, published by IOS Press. Vol. 3, Issue 1, pp. 69-76 (2006).
 55. G. Muthuraman, K. Palanivelu, "Transport of textile dye in vegetable oils based supported liquid membrane", Dyes and Pigments, published by Elsevier. Vol. 70, Issue 2, pp. 99-104 (2006).
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 60. P. Venkateswaran, A. Navaneetha Gopalakrishnan, K. Palanivelu, "Di(2-ethylhexyl)phosphoric acid-coconut oil supported liquid membrane for the separation of copper ions from copper plating wastewater", Journal of Environmental Sciences, published by Elsevier. Vol. 19, Issue 12, pp. 1446-1453 (2007).

61. P.Venkateswaran, and K. Palanivelu, "Transport modeling of hexavalent chromium with tri-n-butyl phosphate as carrier in a flat sheet supported liquid membrane ", Ceylon Journal of Science , published by University of Peradeniya. Vol. 13, pp. 83-91 (2007).
62. K.Palanivelu , Ji sun Im and Young-Seak Lee, "Carbon doping of TiO₂ for visible light photo catalysis-A review," , Carbon Science , published by Elsevier. Vol. 8, Issue 3, pp. 214-224 (2007).
63. P. Venkateswaran; S. Vellaichamy; K. Palanivelu, "Speciation of heavy metals in electroplating industry sludge and wastewater residue using inductively coupled plasma", International Journal of Environmental Science and Technology, published by Springer. Vol. 4, Issue 4, pp. 497-504 (2007).
64. N Senthil Kumar and K. Palanivelu, "Pervaporative recovery of perchloroethylene from the spent solvent of electroplating industry: Experiment and modelling studies", Journal of Scientific and Industrial Research, published by NISCAIR. Vol. 66, Issue 6, pp. 490-494 (2007).
65. E Thirunavukkarasu and K Palanivelu, " Biosorption of Cr(VI) from plating effluent using marine algal mass", Indian Journal of Biotechnology, published by NISCAIR. Vol. 6, Issue 3, pp. 359-364 (2007).
66. M.Radika and K.Palanivelu, "Determination of AOX using locally prepared carbon - A comparative study with commercial activated carbon", Indian Chemical Engineer , published by Taylor and Francis. Vol. 49, Issue 2, pp. 125-133 (2007).
67. K. Palanivelu, P.Venkateswaran ,S.Esakku and R.Ponethal, "Treatment of municipal landfill leachate by solar photocatalytic method using fixed titanium dioxide ", Journal of Environmental Science & Engineering , published by National Environmental Engineering Research Instit. Vol. 49, Issue 1, pp. 54-57 (2007).
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69. N.Hajarabeevi, D. Easwaramoorthi and K.Palanivelu, "Recovery of Acid red 10 B and Acid pink BE silk dyes by bulk liquid membrane using tri-n-butyl phosphate as carrier", Oriental Journal of Chemistry, published by Oriental Scientific Publishing Co. Vol. 23, Issue 1, pp. 155-160 (2007).
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73. G. Muthuraman, and K. Palanivelu, "Removal and recovery of textile dye by liquid membrane using Tri -n- butyl phosphite as carrier ", Ceylon Journal of Physical Science, published by University of Peradeniya. Vol. 14, pp. 1-9 (2008).
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 84. Praveena Juliya Dorathi. and K. Palanivelu, "Sonochemical degradation of p-chlorophenol in aqueous solution using hypervalent iron", Indian Journal of Chemical Technology, published by NISCAIR. Vol. 17, pp. 111-119 (2010).

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85. Min-Jung Jung, Ji Sun Im, K. Palanivelu, Taejin Kim, and Young-Seak Lee, "Photocatalytic Degradation of Procion Blue Dye in Aqueous Solution by a TiO₂-Carbon Nano-Composite", *J. Nanosci. Nanotechnol*, published by American Scientific Publishers. Vol. 10, pp. 297-302 (2010).
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Papers Presented in Programmes

Research Papers Presented in International Programmes : 47
Research Papers Presented in National Programmes : 31

1. R.Jeevitha Raji and K.Palanivelu, "Decolorization of dyes by solar photocatalytic oxidation using carbon doped and Iron codoped Titania" presented in a National level conference on Environmental Science & Technology for sustainable Development, organised by Chennai, India .
2. K. Vijayaraghavan, R. Senthilkumar, K. Palanivelu, M. Velan, "Biosorption of Nickel (II) ions from aqueous solution using a Green Seaweed *Ulva reticulata*, " presented in a International level conference on Chemical and Bio Process Engineering, organised by Malaysia, Malaysia .
3. M.Radhika and K.Palanivelu, "Adsorptive removal of chlorophenols using waste coconut shell carbon-A comparatison with commercial activated carbon" presented in a International level conference on ICEM , organised by Pollution and control technologies,Hyderabad, India .
4. K.Palanivelu, "Green Chemistry for Pollution Abatement" presented in a International level seminar on ETRAMEP, organised by Porayar, India .

5. B.Saravanan and K.Palanivelu, "Recovery of Silver from silver bearing effluent using polymer inclusion membrane," presented in a National level conference on solid and wastewater management and treatment technologies, organised by Chennai, India .
6. Nisha Priya.M and K.Palanivelu, "Sustainable chemistry for environmental protection ," presented in a National level conference on Role of technical education in sustainable development, organised by Chennai, India .
7. J.Jegan, K. Palanivelu and M.Velan, "Biosorption of cobalt(II) ions on marine macroalga *Ulva reticulata*, K.Vijayaraghavan " presented in a National level conference on CHEMCON-2004, organised by Indian Institute of Chemical Engineers,Mumbai, India .
8. N.Senthil kumar and K. Palanivelu, " Removal of trichloroethylene (TCE) from water by pervaporation: A laboratory – scale evaluation" presented in a National level conference on Emerging technologies for sustainable environment in chemical and allied industries, organised by Rourkela, India .
9. S.Esakku, K. Palanivelu and Kurian Joseph, "Assesment of Heavy metals in a municipal solid waste dumpsite " presented in a National level conference on Proceedings of Sustainable Landfill Management , organised by Chennai, India .
10. J. Kurian, S. Esakku, K. Palanivelu and A.Selvam, "Studies on landfill mining at solid waste dumpsites in India- J" presented in a International level conference on Ninth International Waste Management and Landfill Symposium.
11. K. Palanivelu and T. Kulandaivelu, "Studies on defluoridation using alum impregnated polymeric adsorbent -" presented in a International level conference on on Management of Drinking Water Resources, organised by Chennai, India .
12. D. Rajkumar and K. Palanivelu, "Analytical methods for the speciation of Chromium in Environmental samples " presented in a International level conference on Proceedings of Energy Crisis and Environment, organised by Chennai, India .
13. K. Palanivelu and G.B. Jaiprakash Narain , "Photocatalytic and other treatment methods of cyanide bearing industrial wastes " presented in a International level workshop on Industrial Waste Water Treatment; Water Purification by Photosensitizes, organised by Chennai, India .
14. K. Palanivelu and S. Mohan Babu, "Removal of Arsenic from water using red mud for rural water supply " presented in a National level conference on Proceedings of the Second Water Congress.
15. N.Hajarabeevi and K.Palanivelu, "Textile anionic silk dye acid pink BE recovery through supported liquid membrane " presented in a International level conference on CONFLUNCE 2007 , organised by KCT College,Coimbatore, India .
16. M.Nishyapriya and K.palanivelu, , "Combination of electrochemistry and solar energy in the treatment of textile dyeing washwater- A step toward ustainable technology" presented in a International level conference on ISC 2005, organised by Kuala Lupur, Malaysia .
17. E.Thirunavukkaarasu and K.Palanivelu, "Removal of hexavalent chromium from plating effluent using marine algal mass, " presented in a International level conference on Applications of emerging technologies, organised by Chennai, India .

18. K. Palanivelu and V. Karuna Sekhar Babu, "Studies on defluoridation of ground water using chemically impregnated paddy husk ash - " presented in a National level seminar on Water Quality Surveillance and Sustainable Issues, organised by Gandhigram University, India from 10-Dec-1997 to 13-Dec-1997.
19. K. Palanivelu and R. Vijayabaskaran, "Colour removal studies from instant office industrial effluent - " presented in a International level conference on Chemistry, Industry and Environment, organised by Aligarh, Chennai from 09-Feb-1998 to 11-Feb-1998.
20. K. Palanivelu, "Quality control (QC) and Quality Assurance (QS) for analysis of Hazardous Wastes –" presented in a National level seminar on Better World Environment through Engineering, Education and Management, organised by Chennai, India from 18-Nov-1998 to 20-Nov-1998.
21. K. Palanivelu and R. Vijayabaskaran, "Removal of colour from instant coffee industrial effluent -" presented in a National level conference on 86th Session of the Indian Science Congress, organised by Chennai, India from 03-Jan-1999 to 07-Jan-1999.
22. K. Palanivelu , "Chemical Methods of Wastewater, Treatment - " presented in a National level seminar on 'Modern methods of Treatment of Salinity in seawater and corrosion studies, organised by Adirapattinam, India from 31-Mar-1999.
23. K. Palanivelu , "Sources and classification of waste " presented in a International level conference on the impact of waste on ground contamination and the role of Civil Engineers, organised by Chennai, India from 21-Oct-1999 to 22-Oct-1999.
24. K. Palanivelu, "Good Laboratory Practices " presented in a National level seminar on Quality Control' of Environmental Analysis, organised by Chennai, India from 18-Dec-1999.
25. K. Palanivelu and G.B. Jaiprakash Narain, "Stabilization of Industrial Effluent Sludge " presented in a International level conference on Hazardous waste Management, organised by Chennai, India from 27-Jan-2000 to 29-Jan-2000.
26. K. Palanivelu, F. Schindler, "Photocatalytic Degradation of aqueous cyanide with red mud " presented in a National level seminar on Industrial Pollution and its control, organised by BHU, Varanasi, India from 18-Feb-2000 to 19-Feb-2000.
27. K. Palanivelu and S. Raghupathi , "Removal and recovery of Phenol from Industrial effluent using liquid membrane " presented in a National level seminar on Membrane Technologies for water and waste water reclamation, organised by Chennai, India from 01-Feb-2001 to 16-Feb-2001.
28. Kurian Joseph, R.Nagendran, K. Palanivelu and S.Thayumanavan, "Landfill Mining – " presented in a International level conference on Solid Waste Management, organised by University of Peradeniya, Colombo, Sri Lanka from 27-Aug-2001.
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 31. P.Venkateswaran and K.Palanivelu, "Separation and concentration of nickel (II) from wastewater using supported liquid membrane containing 2-(ethylhexyl amine) as carrier: batch experimental studies. " presented in a International level conference on Singapore International Chemical Conference , Singapore from 08-Dec-2005 to 10-Dec-2005.
 32. N.Kavitha and K.Palanivelu, "Removal of acid dyes from aqueous solution using poly vinylpyrrolidone based aqueous biphasic system" presented in a International level conference on Green/sustainable Chemistry, organised by New Delhi, India from 10-Jan-2006 to 13-Jan-2006.
 33. P.Venkateswaran and K.Palanivelu, "Separation of cresols by a supported liquid membrane containing palm oil as liquid membrane – A green approach" presented in a International level conference on Green/sustainable Chemistry, organised by New Delhi, India from 10-Jan-2006 to 13-Jan-2006.
 34. N.Hajarabeevi , I. Mohammed Bilal D.Easwaramoorthi and K.Palanivelu, "Removal of cationic dye methyl violet through supported liquid membrane with D2EHPAas carrier and vegetable oil as a diluent," presented in a National level seminar on Emerging trends in Chemistry(SLSETC 2006), organised by Jamal Mohamed college,Tiruchirapalli, India from 09-Mar-2006 to 10-Mar-2006.
 35. P.venkateswaran and K.Palanivelu, "Transport mechanism and kinetic model for the recovery of phenol by supported liquid membrane using palm oil as liquid membrane." presented in a International level conference on Emerging trends in separation science and technology (SESTEC-2006) , organised by Bhabha Atomic Research Centre, Mumbai , India from 29-Sep-2006 to 01-Oct-2006.
 36. N.Hajarabeevi , I. Mohammed Bilal D.Easwaramoorthi and K.Palanivelu, "Removal of cationic dye rhodamine B through supported liquid membrane with D2EHPAas carrier and vegetable oil as a diluent, " presented in a National level conference on Holistic water resources management , organised by BSA Cerescent Engg college , Chennai, India from 01-Dec-2006.
 37. N.Hajarabeevi , Sindu Jeyakumar, I. Mohammed Bilal¹and K.Palanivelu, "Facilitated transport of silkdye Acid Red 10 B through bulk liquid membrane usingtri-n-butyl phosphate as carrier . " presented in a International level conference on Cleaner Technologies and EnvironmentalManagement, organised by PEC, Pondichery, India from 04-Jan-2007 to 06-Jan-2007.
 38. Min Il kim, K.Palanivelu and Young-Seak Lee, "Heterogeneous Photo-Fenton Degradation of Rhodamine B dye with Carbon Nano Tube containing iron oxide " presented in a International level conference on The Carbon Society Spring Conference, organised by Kwanju,South Korea, South Korea from 17-May-2007 to 18-May-2007.
 39. Oh Seob kwon, JeenSeok Jang K.Palanivelu and Young-Seak Lee, "Degradation of Procian Blue dye in aqueous solution by CNT –TiO₂ photo catalysis" presented in a International level conference on The Carbon Society Spring Conference, organised by Kwanju,South Korea, South Korea from 17-May-2007 to 18-May-2007.

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40. Sang-Jin Kim, JeonSeok Jang, K.Palanivelu and Young-Seak Lee, "Preparation of TiO₂-CNT composite for the Photocatalytic Degradation of Methylene blue dye" presented in a International level conference on The Carbon Society Spring Conference, organised by Kwanju, South Korea, South Korea from 17-May-2007 to 18-May-2007.
 41. M. Nisha Priya and K.Palanivelu, "Wastewater treatment using green power,(C4-Energy- I) " presented in a International level conference on Creating sustainability within our midst' , organised by USSEE, USA from 23-Jun-2007 to 27-Jun-2007.
 42. N.Hajarabeevi I. Mohammed Bilal and K.Palanivelu, "A comparative study on recovery of silk dye Acid Pink BE by using solvent extraction and Bulk liquid membrane through tri-n butyl phosphate as carrier," presented in a National level conference on Application oriented materials , organised by Rajalaksmi Engg college, Chennai, India from 14-Aug-2007.
 43. C.S. Lee and K.Palanivelu, "Transport of PNP (p-Nitrophenol) through PDMS (Poly Dimethyl Siloxane) membrane (P-97), " presented in a International level conference on KICHE Fall meeting, organised by KAIST, Daejeon, South Korea from 26-Oct-2007 to 27-Oct-2007.
 44. Min Il kim K.Palanivelu and Y.S.Lee, "Removal of organic pollutant using photodegradation based on photo-assisted Fenton reaction by Fe₂O₃/MWCNTs composite" presented in a International level conference on 36 th KSIEC Fall meeting, organised by Hankyong National University,Anseong, South Korea from 02-Nov-2007 to 03-Nov-2007.
 45. K.Palanivelu and Y.S.Lee, "Role of pH in TiO₂ coated MWCNT photocatalysis,Oh Seob, " presented in a International level conference on 36 th KSIEC Fall meeting, organised by Hankyong National University,Anseong, South Korea from 02-Nov-2007 to 03-Nov-2007.
 46. SeokMin, K.Palanivelu and Y.S.Lee, "Preparation and Characterization of fluorine doped TiO₂ for photodegradation," presented in a International level conference on 36 th KSIEC Fall meeting, organised by Hankyong National University,Anseong, South Korea from 02-Nov-2007 to 03-Nov-2007.
 47. SeokMin, K.Palanivelu and Y.S.Lee, "Preparation and Characterization of fluorine doped TiO₂ for photodegradation," presented in a International level conference on 36 th KSIEC Fall meeting, organised by Hankyong National University,Anseong, South Korea from 02-Nov-2007 to 03-Nov-2007.
 48. Sang Jin Kim,K.Palanivelu and Y.S.Lee, "Photocatalytic degradation of Methylene Blue dye using TiO₂ mounted MWCNT composite, " presented in a International level conference on 36 th KSIEC Fall meeting, organised by Hankyong National University,Anseong, India from 02-Nov-2007 to 03-Nov-2007.
 49. SeokMin, Ji sun Im,K.Palanivelu and Y.S.Lee, "Preparation and characterization of carbon doped TiO₂ using sucrose for photodegradation " presented in a International level conference on carbon saves the earth, organised by Iota,Japan, Japan from 05-Nov-2007 to 07-Nov-2007.
 50. R.Iadhayachander and K.Palanivelu, "Electrolytic recovery of nickel from spent electroless nickel bath solution " presented in a National level conference on electrochemical science and technology, organised by Indian Institute of Science, Bangaluru, India from 18-Jul-2008 to 19-Jul-2008.

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51. S.Vellaichamy,S.Pradeep raj K.Palanivelu, "Impending approaches to environmental menace, Trace metal analysis in cosmetics," presented in a National level conference on Impending approaches to environmental menace, organised by Porayar, India from 25-Sep-2008 to 26-Sep-2008.
 52. K.Palanivelu, "Doped titania nanoparticles for the degradation of toxic organic compounds using solar light" presented in a National level conference on Impending approaches to environmental menace, organised by Porayar, India from 25-Sep-2008 to 26-Sep-2008.
 53. K.Palanivelu, "Solar photocatalysis using carbon doped titania nanoparticles for the degradation of toxic organic compounds " presented in a International level conference on Frontiers in Chemical sciences, organised by Chennai, India from 02-Oct-2008 to 04-Oct-2008.
 54. S. Vellaichamy, K. Thanasekaran, and K. Palanivelu, "Evaluation the toxic heavy metal species in electroplating industrial sludge using BCR sequential extraction leaching procedure" presented in a International level conference on 14 th International conference on heavy metals in the environment, organised by Taipei, Taiwan , Taiwan from 16-Nov-2008 to 23-Nov-2008.
 55. N.Hajarabeevi and K.Palanivelu, " A comparative study on recovery of silk dyes acid red 10 B using solvent extraction,bulk liquid membrane and supported liquid membrane through tri-n-butyl phosphate as carrier" presented in a International level conference on Changing environmental trends and sustainable development, organised by Guru Jambheshwar university of science and technology,Hisar, India from 09-Feb-2009 to 11-Feb-2009.
 56. K.Palanivelu, "Solar photocatalysis using carbon doped titania nanoparticles for the degradation of toxic organic compounds " presented in a International level conference on Current trends in environmental Science & sustainable development (NCESD 2009), organised by University of Mysore, Mysore, India from 27-Feb-2009 to 28-Feb-2009.
 57. K.Palanivelu, "Utilisation of CO₂ for the production of value added products-An option for climate change mitigation" presented in a International level seminar on on Climate change and environmental challenges, organised by Annamalai university,Chidambaram, India from 07-Mar-2009 to 08-Mar-2009.
 58. J.Rajaganapathy and K.Palanivelu, "Catalytic conversion of CO₂ into hydroxyl benzoic acid," presented in a National level seminar on Recent developments in Green chemistry (NSGC 2009), organised by Sri Ramakrishna Vidyalaya college ,Coimbatore, India from 22-Jul-2009 to 23-Jul-2009.
 59. K.Palanivelu, "Green separation techniques," presented in a National level seminar on Recent developments in Green chemistry (NSGC 2009), organised by Sri Ramakrishna Vidyalaya college ,Coimbatore, India from 22-Jul-2009 to 23-Jul-2009.
 60. V.Krishnaveni, K.Palanivelu and A.Navaneetha gopalakrishnan, "Management of RO reject brine and capture of CO₂ " presented in a International level conference on 43 rd Annual convention IWWA, organised by Chennai, India from 11-Jan-2011 to 13-Jan-2011.
 61. K.Palanivelu, "Recovery of valuable pollutants using greener liquid membrane" presented in a National level conference on Current trends in Chemical and Biochemical Engineering', organised by Sathyabama University, Chennai, India from 20-Jan-2011 to 21-Jan-2011.

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62. K.Palanivelu, G.C.Sarti and A.Navaneethagopalakrishnan , "Carbon dioxide Separation from flue gas using membranes: an overview" presented in a International level conference on 8 th All India People's Technology Congress, organised by Kolkata, India from 11-Feb-2011 to 12-Feb-2011.
 63. V.Krishnaveni K.Palanivelu and A.Navaneethagopalakrishnan , " Production of Carbonates from High Salinity Dye Bath Using CO₂ Gas" presented in a International level conference on Climate Change and CO₂ Management: Mitigation, Separation and Utilization, organised by Anna university, Chennai, India from 02-Feb-2012 to 03-Feb-2012.
 64. A. Uma Maheswari and K. Palanivelu , "Solubility of CO₂ in Amine and Vegetable oil to use in Liquid membrane for CO₂ Gas Separation" presented in a International level conference on Climate Change and CO₂ Management: Mitigation, Separation and Utilization, organised by Anna universityChennai , India from 02-Feb-2012 to 03-Feb-2012.
 65. K.Palanivelu, "Green Analytical Chemistry" presented in a International level conference on Green Chemistry, organised by Chennai, India from 10-Feb-2012.
 66. K.Palanivelu, "Toxicity of textile dyes" presented in a National level seminar on Textile dye effluents and its health impacts-a bioremedial approach, organised by Tiruchengode, India from 15-Feb-2012 to 16-Feb-2012.
 67. K. Palanivelu and R. Jeevitha Raji, "DEGRADATION OF REFRACTORY POLLUTANTS USING CARBON-IRON MODIFIED TITANIA UNDER NATURAL SUN-LIGHT " presented in a International level conference on 6 th International conference on Environmental Science and Technology, organised by Houston,USA , USA from 25-Jun-2012 to 29-Jun-2012.
 68. T.D. Rushhendravathy, E. Pavithra,T.D A.Ramachandran & K.Palanivelu, "Carbon Sequestration by coal fly ash through gas solid carbonation, " presented in a International level conference on Disaster mitigation and management towards sustainable development, organised by Periyar Maniyammal University, Thanjavur, India from 02-Dec-2013 to 04-Dec-2013.
 69. E. Pavithra,T.D. Rushhendravathy,A.Ramachandran & K.Palanivelu, "Mineral Sequestration of carbon dioxide by dry capture of lime" presented in a International level conference on Emerging Trends in Chemical Sciences (IETC-2013), organised by Vellore Insitute of Technology, Vellore, India from 05-Dec-2013 to 07-Dec-2013.
 70. N. Kavitha and K. Palanivelu, "Recovery of copper metal from digested printed circuit board by polymer inclusion membrane and displacement method" presented in a International level conference on 6th INTERNATIONAL Congress of environmental research, organised by Aurangabad, India from 19-Dec-2013 to 21-Dec-2013.
 71. Uma Maheswari, K. Palanivelu, "Ceramic Supported Facilitated Transport Membranes for the Separation of Carbon Dioxide and Nitrogen " presented in a National level conference on Energy Technologies, Climate Change and Environmental Sustainability: Innovative Perspective, organised by Jawaharlal Nehru University,New Delhi, India from 19-Jul-2014 to 20-Jul-2014.

72. T. D. Rushendra Revathy, E. Pavithra, K. Palanivelu, , A. Ramachandran Editor: Govind Chandra Mishra, "Direct Mineral Carbonation of Coal Fly Ash at Varying Low Pressure Conditions " presented in a National level conference on Energy Technologies, Climate Change and Environmental Sustainability: Innovative Perspective, organised by Jawaharlal Nehru University, New Delhi, India from 19-Jul-2014 to 20-Jul-2014.
73. S. Pavthrapriya, R. Prasanna Venkatesh, A. Ramachandran and K. Palanivelu, "Future Climate Change Projections over Cauvery delta zone using the PRECIS regional climate Model system" presented in a National level conference on Climate Change Impacts and Natural Resource Management, organised by Anna University, India from 18-Feb-2016 to 19-Feb-2016.
74. "Quantification of methane emission from solid waste dumpsites of Chennai" presented in a National level conference on Climate Change Impacts and Natural Resource Management, organised by Anna University, India from 18-Feb-2016 to 19-Feb-2016.
75. K. Palanivelu, R. Vijayajansi and A. Ramachandran, "Leaching studies on marine shells using carbonated sea water" presented in a International level conference on 9 th International conference on Interfaces against Pollution , organised by University of Lleida, Spain from 04-Sep-2016 to 07-Sep-2016.
76. "CO₂ Utilization to Mitigate Global Warming" presented in a National level conference on National conference CCGW2018, organised by J.B.A.S. College for Women, Chennai, India from 21-Feb-2018 to 22-Feb-2018.
77. "Green Solvents for Environmental Applications" presented in a National level conference on Green Chemistry , organised by Raichur, India from 09-Mar-2018 to 10-Mar-2018.
78. "SEA LEVEL RISE PROJECTION FOR TAMIL NADU COAST " presented in a National level workshop on NICES18, organised by Geology, Anna university, India from 28-Mar-2018 to 28-Mar-2018.

Books Published

1. " Advances in Industrial Wastewater Treatment -Book Chapter- Wastewater Treatment by Liquid Membrane Process " authored by K. Palanivelu and P.K. Goel-Editor and published by Technoscience Publications, Jaipur.(1999)
2. "New Trends in Hazardous materials- Book Chapter , Vegetable oil as greener liquid membrane," authored by K. Palanivelu, K. Palanivelu and Phillip B. Warey -Editor and published by Nova Science Publishers, New York.(2007)
3. "Metal Oxide Nanostructures and Their Applications, Book Chapter- Development of Doped Titania with Nanostructure for Environmental Remediation usin" authored by K. Palanivelu, K. Palanivelu and A. Umar and Y.B. Hahn-Editors and published by American Scientific Publishers , Los Angeles.(2010)
4. "Proceedings of National Conference on Climate Change Impacts and Natural Resource Management" authored by K. Palanivelu and A. Ramachandran and published by Sakthi Pathipagam, Chennai.(2016)

Current Sponsored Projects

1. "Dynamic downscaling to study climate Change impacts on water Resources", funded by MoWR (April-2018 - March-2020). Project Cost: 82.00.
2. "Study on the impact of extreme Climate Changes affecting communities live in coastal Panchayats in Tamil Nadu", funded by State Institute of Rural Development and Panchayat Raj, Rural Development Department, Government o (April-2018 - March-2019). Project Cost: 5.00.
3. "Establishment and strengthening of Tamil Nadu state climate Change Knowledge management cell (TNSCC-KMC)", funded by DST,New Delhi (October-2017 - September-2022). Project Cost: 199.00.
4. "MEMBRANE PROCESSES FOR CO2 RECOVERY AND ITS UTILIZATION" (December-2018 - December-2021). Project Cost: 11.00.

Sponsored Projects Completed

1. "Removal and recovery of chromium (VI) from plating effluent using liquid membrane", funded by Central Pollution Control Board, Delhi.. Project Cost: 1.00.
2. "Studies on removal and recovery of hexavalent chromium from plating wastewater using supported liquid membrane ", funded by Ministry of Environment and Forests, Govt. of India New Delhi .. Project Cost: 1.72.
3. "Recovery of VOCs from waste effluents by pervaporation ", funded by University Grants Commission New Delhi.. Project Cost: 9.00.
4. "Water Quality assessment in the Tsunami affected coastal areas of Tamilnadu – Adyar" (April-2005 - September-2005). Project Cost: 1.27.
5. "Monitoring and database management of the waterways of Chennai city", funded by Ministry of Environment and Forests, Govt. of India New Delhi (April-2008 - March-2013). Project Cost: 11.00.
6. "Recovery of useful products from waste CO2 gas", funded by UGC-CPEES (September-2009 - August-2014). Project Cost: 30.00.
7. " LAND USE CHANGES AND WATER CONTAMINATION GREEN HOUSE GAS MONITORING AT MUNICIPAL SOLID WASTE DUMPSITE IN CHENNAI", funded by State Planning Commision,TN (January-2015 - December-2015). Project Cost: 4.90.
8. "DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU", funded by Department of Environment, Govt.of TN (March-2015 - August-2015). Project Cost: 1.98.
9. "CO2 GAS SEPARATION FROM FUEL AND FLUE GAS USING COMPOSITE MEMBRANES", funded by UGC (December-2015 - November-2018). Project Cost: 15.00.

10. "IMPACT OF CLIMATE CHANGE ON FLUVIAL AND PLUVIAL FLOODING IN SELECTED AREAS OF CHENNAI METROPOLITAN AREA ", funded by State Planning Commission, TN (April-2016 - December-2017). Project Cost: 19.00.

Programme Chaired

1. Chairman, National level seminar titled " Marine Biodiversity Conservation and Law : Issues and Challenges" conducted by The Tamil Nadu Dr. Ambedkar Law University, Chennai from 05-Jun-2014.
2. Co Chairman, National level workshop titled "Clima Film FEST'14" conducted by Good Relations India, Chennai from 11-Sep-2014 to 13-Sep-2014.
3. Co Chairman, International level conference titled "Emerging Environmental & Advanced Oxidation Technologies for Energy, Environment and Sustainability" conducted by Anna University, Chennai from 29-Sep-2014 to 01-Oct-2014.
4. Co Chairman, International level seminar titled "Energy Security, Climate Change and Sustainability; New Challenges and Alternatives" conducted by Presidency College, Chennai, India from 21-Nov-2014 to 23-Nov-2014.
5. Chairman, National level seminar titled "Climate Change - Is it a Hype or a Reality ? " conducted by MCCI, Chennai from 05-Jun-2015.
6. Chairman, National level workshop titled "Awareness and capacity building in Carbon capture, storage and utilization: Towards a low carbon Growth Strategy" conducted by Climate change Research Institute, New Delhi from 27-Jul-2015 to 31-Jul-2015.
7. Chairman, International level conference titled "2nd International Conference on Corporate and Business Response to Climate Change-From Awareness to Adoption*(Transcending the Boundaries)" conducted by Periyar University, Salem from 09-Mar-2016 to 11-Mar-2016.

Programme Organized

1. Coordinator, National level Short Course on " CPHEEO 3 months course on Public Health Engineering" from 01-Apr-1998 to 30-Jun-1998.
2. Coordinator, National level seminar on "Quality Assurance of Environmental Analysis" from 18-Dec-1999.
3. Coordinator, National level seminar on "Compliance of National Ambient Air Quality Standards 2009(NAAQS)" " from 11-Dec-2010.
4. Organising Secretary, International level conference on "Climate Change and CO2 Management: Mitigation, Separation and Utilization" from 02-Feb-2012 to 03-Feb-2012.
5. Coordinator, National level workshop on " Transect Walk in view of World Environment Day: Raise your voice, not the sea level" from 05-Jun-2014.
6. Coordinator, National level seminar on "Understanding local adaptation from the lens of climate change- Tamil Nadu perspective" from 20-Feb-2015.

7. Convenor, National level conference on "Climate Change Impacts and Natural Resource Management" from 18-Feb-2016 to 19-Feb-2016.
8. Organise, International level workshop on "DEVELOPMENT AND APPLICATION OF LOW EMISSION COAL TECHNOLOGIES FOR THE INDIAN SCENARIO" from 11-Apr-2017 to 12-Apr-2017.
9. Coordinator, National level Short Course on "Science and Technology in CO2 Conversion" from 07-Nov-2017 to 18-Nov-2016.
10. Coordinator, National level workshop on "Sensitization Programme on Climate Change Impacts and Adaptation need for Tamil Nadu" from 05-Feb-2018.
11. Coordinator, National level workshop on "Training Programme on Climate Change Impacts and Adaptation Planning for Water and Agriculture in Tamil Nadu" from 06-Mar-2018 to 08-Mar-2018.
12. Coordinator, National level workshop on "GENDER MAINSTREAMING IN CLIMATE CHANGE ACTIVITIES" from 16-Mar-2018 to 16-Mar-2018.

Programme Attended

1. Attended a National level seminar on "Pesticides Poisoning,First Aid Measures & Treatment" organized by Frontier Mediville & Life Science Intelligentsia, Chennai,India from 19-Apr-2014.
2. Participated in a National level workshop on "Capacity Building on Integrating Climate Change concerns into Development programme " organized by DoE ,Govt. of Tamilnadu , Chennai,India from 19-Aug-2014 to 22-Aug-2014.
3. Attended a National level Short Course on "Climate Change Vulnerabilities and Adaptation Strategies" organized by ICFRE-FRI, Dehradun , Dehradun,India from 02-Feb-2015 to 06-Feb-2015.

Special Repräsentations

1. Member,Excess fee committee for self financing col in Higher Education ,Govt.of Tamilnadu from 01-Nov-2012 to31-Oct-2013.

Honours

1. "Think of Ecology award" given by Hiyoshi Corporation (Japan) Ltd from India (2009).
2. "Best Environmental Research Paper Award " given by Department of Environment, Government of Tamil Nadu from India (2010).
3. "Outstanding paper award(second place),6 th ICEST" given by American Academy of Science from Houston,USA (2012).
4. "Active Researcher Award" given by CTDI,Anna University from India (2014).

Experience Abroad

1. Visited Fresenius Institute at Tunnestein and Porst consult, Furth, Germany from 19-May-1997 to 07-Jul-1997. Purpose of visit :Training(GTZ) .
2. Visited Thermo Fisher, Cambridge, United Kingdom from 08-May-2006 to 12-May-2006. Purpose of visit :ICP Training.
3. Visited Chungnam National university, Daejeon, Republic of Korea from 27-Dec-2006 to 24-Dec-2007. Purpose of visit :Teaching -cum- Research Professor(BK 21 Fellowship).
4. Visited University of Bologna, Bologna,Italy from 24-May-2010 to 26-Jul-2010. Purpose of visit :INDIA4EU- EMECW EU fellowship.
5. Visited Hiyoshi -HIDA, Shiga,Japan from 19-Oct-2015 to 23-Oct-2015. Purpose of visit :Environmental Education Programme.
6. Visited TIPS RAS, Moscow,Russia from 19-Jan-2019 to 03-Feb-2019. Purpose of visit :DST-RFBR Joint Project.

Invited Lectures

1. Delivered a Lecture on "Integrated Electrochemical treatment for textile w" in Fifth Prof. S.M. Mayanna Endowment lecture organized by NSEST, Indian Institute of Science, Bengaluru (19-Jul-2008).
2. Delivered a Lecture on "Make in India : Zero Defect and Zero Effect" in NPC -Productivity week Celebration organized by National Productivity Council, Chennai (18-Feb-2015).
3. Delivered a Lecture on "Carbon dioxide Utilization for Climate Change Mitigation" in National Seminar organized by T.K.Govt College, Vriddachalam (07-Mar-2015).
4. Delivered a Lecture on "Climate change and Existing Vulnerabilities in Tamil Nadu" in INTERNATIONAL WORKSHOP ON CLIMATE CHANGE, HEAT STRESS & HEALTH organized by SRU, Chennai (13-Apr-2015).
5. Delivered a Lecture on "Climate Change Mitigation Via Utilization of Carbon dioxide" in Workshop on Awareness and capacity building in CCSU: Towards a low carbon growth strategy organized by Climate Change Research Institute, New Delhi (28-Jul-2015).
6. Delivered a Lecture on "Climate Projections for Tamil Nadu state and Adaptation" in ICECAFE2016 organized by Dhanalakshmi College of Engg,Chennai, CHENNAI (20-Oct-2016).
7. Delivered a Lecture on "Ideas for Adaptation: How global south should mainstream adaptation?" in Stakeholders round table ,Adapting to Climate Change organized by Centre for Science and Environment, Nimli, Rajasthan (21-Feb-2018).