FACULTY PROFILE

1.	Name	: Dr.K.Palanivelu
2.	Faculty I.D.	: 39344
3.	Initial Expansion	: Kandasamy
4.	Date of Birth	: 25.06.1963
5.	Address for Communication	: Assistant Professor in Environmental Chemistry, Centre for Environmental Studies, Anna University, Chennai-25.
6.	Permanent address	: L20, Anna University Staff Quarters, Chennai-25.
7.	Phone No.	: Office: 22203195 Residential: 24454328
8.	e-mail I.D.	: Kpvelu@hotmail.com, Kpvelu@gmail.com
9.	Qualification	: M.Sc., Ph.D.
10.	Area of specialization	

Major research specializations include Waste treatment and Trace analysis. Development of methods for heavy metal speciation in environmental samples. Waste treatment includes of AOPs (Fenton, Electrochemical & Photo catalytic) for the degradation of Toxic pollutants such as Phenols, Dyes etc and Recovery of valuable pollutants form waste water using greener liquid membranes technique.

11. Research projects

As Principal Investigator

Project Title: **Removal and recovery of chromium (VI) from plating effluent using liquid membrane**
Funding Agency: Central Pollution Control Board, Delhi
Total Cost: 1, 00,000/-
Period: 1996-1997
Status: Completed

Project Title: **Studies on removal and recovery of hexavalent chromium from plating wastewater using supported liquid membrane**
Funding Agency: Ministry of Environment and Forests, Govt. of India New Delhi
Total Cost: 1, 72,500/-
Period: 2002-2003
Status: Completed

Project Title: **Recovery of VOCs from waste effluents by pervaporation**
Funding Agency: University Grants Commission New Delhi
Total Cost: 9, 76,400/-
Period: 2004-2006
Status: Completed

Project Title: **Water Quality assessment in the Tsunami affected coastal areas of Tamilnadu – Adyar**
Funding Agency: Dept.of Science and Technology, New Delhi
Total cost: 1, 27.000/-
Period:April 2005- September 2005
Status: Completed

As Co-Investigator

Project Title: Solid waste landfill management in India
Funding Agency: Swedish International Development Agency
Total Cost: 45, 00,000/-
Period: 2001-2004
Status: Completed (Phase-1)

12. Teaching experience :15 years

13. Research guidance :

	Awarded	submitted	ongoing
Ph.D	5+1	2	2
M.Phil	4	-	-
MS(By Res)	1	1	-

14. Publications

Internal - 45
External – 28
Total = 73

Journals

1. Kinetics and Mechanism of Cholorination of Toluene by 1- Chlorobenzotriazole, R. Gurumurthy, M. Uma and **K. Palanivelu**, J. Indian Council of Chemists, IV, pp.81-84 (1988)

2. Concentration and Determination of traces of Arsenic and Phosphorus in Natural Waters, T.V. Ramakrishna and **K. Palanivelu**, Indian J. Environ. Protection, 9, pp. 265-271 (1989)

3. Separation and Spectrophotometric Determination of trace amounts of Arsenic as the ternary complex with molybdate and rhodamine B, **K. Palanivelu** and T.V. Ramakrishna, Indian Journal of Technology, Vol. 28, pp.67-70 (1990)

4. A Chemical Enhancement method for the Spectrophotometric determination of trace amounts of Arsenic - **K. Palanivelu**, N. Balasubramanian and T.V. Ramakrishna, Talanta, Vol.39, No.5, pp.555-561 (1992)

5. Thermodynamic activities at 1256 K in the Nickel Oxide-Magnesium Oxide - Zinc Oxide using - Solid - State Galvanic Cell, S. Raghavan, **K. Palanivelu**, S. Esakku and S. K. Seshadri, Journal of Materials Science Letters, 12, pp.1927 – 1929 (1993)

6. Evaluation of adsorbent for phosphate removal, **K. Palanivelu** and N. Elangovan, Ind. J. Env. Protection, 14(a), pp.688-689 (1994)

7. Phosphate Removal Studies using Aluminium Impreganated coconut shell carbon, **K. Palanivelu** and N. Elangovan, Ind. J. Env. Protection, 16(3), 183-185 (1996)

8. Sequential Determination of Cr (III) and Cr (VI) in water - **K. Palanivelu** and D. Rajkumar, Indian Journal of Env. Protection 18, 413-417 (1998)

9. Removal and recovery of chromium by Liquid membrane - **K. Palanivelu**, K.R. Ranganathan and D. Santhanala Lakshmi, Journal of Scientific and Industrial Research, 57, pp.903-906 (1998)

10. Solidification / Stabilization of Hazardous Arsenic waste from a fertilizer plant - T.S. Kumaravel and **K. Palanivelu,** Journal of Scientific and Industrial Research, 59, pp.477-481 (2000)

11. Electrochemical oxidation of resorcinol for waste water treatment using Ti/TiO_2-RuO_2-IrO_2 electrode – D. Rajkumar, **K. Palanivelu** and N. Mohan, J.Environ.Sci.Health, A36 (10), pp.1997-2010 (2001)

12. Characterisation and leachability studies on textile effluent treatment plant sludge, **K. Palanivelu** and R. Rajakumar, Env. Poll. Control, Jr., 5(1), 38-40 (2001)

13. Electrochemical Degradation of Cresols for Wastewater Treatment, D.Rajkumar and **K. Palanivelu** Ind.Eng. Chem. Res.42 (9), 1833-1839, (2003)

14. Degradation of 2-Chlorophenol by Fenton and Photo-Fenton Processes-A Comparative Study, V.Kavitha and **K. Palanivelu**, J.Environ.Sci.Health,A38(9),1215-1231(2003)

15. Electrochemical degradation of resorcinol using mixed oxide coated titanium electrode for wastewater treatment – A kinetic study, D.Rajkumar, K.Palanivelu and N.Mohan, Ind.J.Chem. Tech 10. 396-401 (2003)

16. Destruction of cyanide in aqueous waste by electrochemical oxidation, N.Priya and **K. Palanivelu**, Annali di chimica, Volume 93, issue 9–10, pp. 811-815 (2003)

17. Elimination of mercuric sulphate in COD determination, S.Esakku, R.Raghav, N.Balasubramanian, K**. Palanivelu,** Indian Chemical Engineer 46(2), 122-125 (2004)

18. Removal and recovery of low salt dye golden yellow LS by liquid-liquid extraction, G.Muthuraman and **K.Palanivelu,** Indian journal of Chemical Technology, 166-169 (11 March 2004)

19. The role of ferrous ion in Fenton and photo-Fenton process for the degradation of phenol, V.Kavitha and **K. Palanivelu**, Chemosphere, 55 1235-1243 (2004), (This paper has been cited as the among the top 25 papers requested of the Journal,Source: www.elsevier.com/homepage/sad/downloads/00456535.html)

20. Copper removal from aqueous solution by marine green alga *Ulva reticulata*, K.Vijayaraghavan, J.R.Jegan, **K. Palanivelu** and M.Velan, Electronic Journal of Biotechnology, 7(1), 61-71 (2004).

21. Removal of nickel (II) ions from aqueous solution using crab shell particles in a packed bed up-flow column, K.Vijayaraghavan, J.Jegan **K. Palanivelu a**nd M.Velan, Journal of Hazardous materials, 113(1-3), 223-230 (2004)

22. Electrochemical Treatment of Industrial Wastewater, D.Rajkumar and **K. Palanivelu**, Journal of Hazardous Materials, 113(1-3), 123-129 (2004). (This paper has been cited in the top 25 papers of the Journal source: (top25.sciencedirect.com/index.php?cat_id=1&subject_area_id=5&journal_id=03043894)

23. Solvent extraction of hexavalent chromium with tetrabutyl ammonium bromide from aqueous solution, P.Venkateswaran and **K. Palanivelu**, Separation Purification Technology, 40, 279-284 (2004).

24. Degradation of nitrophenols by Fenton and photo-Fenton processes, V.Kavitha and **K. Palanivelu**, Journal of Photochemistry and Photoboilogy A: Chemistry, 170, 83-95 (2005)

25. Combined electrochemical degradation and activated carbon adsorption treatments for wastewater containing mixed phenolic compounds, D.Rajkumar ,N.Balasubramanian and **K. Palanivelu,** Journal of Environmental Engineering and science, 4,1-9(2005)

26. Selective extraction and separation of textile anionic dyes from aqueous solution by TBAB, G.Muthuraman and **K. Palanivelu**, Dyes and Pigments, 64, 251-257 (2005)

27. Removal and recovery of copper from aqueous solution by eggshell in a packed column, K.Vijayaraghavan, J.Jegan, **K. Palanivelu** and M.Velan, Mineral Engineering, 18(5), 545-547(2005).

28. Indirect Electrochemical Oxidation of Phenol in the presence of chloride for wastewater Treatment, D.Rajkumar, Jong Guk Kim and **K. Palanivelu**, Chemical Engineering Technology, 28(1), 98-105(2005).

29. Studies on recovery of hexavalent chromium from plating wastewater by supported liquid membrane using tri-n-butyl phosphate as carrier. P.Venkateswaran and **K. Palanivelu.** Hydrometallurgy, *Volume 78, Issues 1-2, July 2005, Pages 107-115*

30. Nickel recovery from aqueous solution using crab shell particles, K.Vijayaraghavan**. Palanivelu** and M.Velan, Adsorption Science Technology, 23 (4), 2005, pp. 303-311
31. Continuous sorption of copper and cobalt by crab shell particles in a packed column, K.Vijayaraghavan, M.Thilakavathi, **K. Palanivelu** and M.Velan, Environmental Technology, 23(3), March 2005,267-276

32. Biosorption of copper, cobalt and nickel by marine green alga *Ulva reticulata* in a packed column, K.Vijayaraghavan, J.Jegan, **K. Palanivelu** and M.Velan, Chemosphere, *Volume 60, Issue 3, July 2005, Pages 419-426*

33. Biosorption of cobalt (II) and nickel (II) by seaweeds; Batch and column studies, K.Vijayaraghavan, J.Jegan, **K. Palanivelu** and M.Velan, Separation &Purification Technology, *Volume 44, Issue 1, July 2005, Pages 53-59*

34. Crab shell based biosorption technology for the treatment of Nickel bearing electroplating industrial effluents, K.Vijayaraghavan, K**. Palanivelu** and M.Velan, Journal of Hazardous Materials, 119(1-3), 251-254(2005).

35. Nitrate removal from ground water using electrolytic reduction method, P. K Raghu Prasad, M Nisha Priya and

    K. Palanivelu,Indian Journal of Chemical Technology,12,164-169(2005).

36. Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornate*• K. Vijayaraghavan, J. Jegan,**K.Palanivelu** and M. Velan *Chemical Engineering Journal, Volume 106, Issue 2, 15 February 2005, Pages 177-184*

37. Recovery of Chromium from Electroplating Wastewater using Di 2-(Ethylhexyl) Phosphoric acid J.Senthilnathan, S.Mohan, **K.Palanivelu**,Separation Science and Technology,40,2005,2125-2137.

38. Transport of textile anionic dyes using cationic carrier by bulk liquid membrane, G.Muthuraman **& K.Palanivelu** Journal of Scientific and Industrial Research Vol.64, July 2005, 529-533.

39. Destruction of cresols by Fenton oxidation process,V.kavitha and **K.Palanivelu**,Water Research) *39(13), 2005, 3062-3072.*

40. Solar energy driven electrochemical degradation of reactive dye green HE4BD, M.Nisha **K.Palanivelu**, ColourationTechnology, 121,2005,198-202.
41. Removal and recovery of lead from aqueous solution using supported liquid membrane, R.Anupama and **K.Palanivelu**, Indian journal of chemical technology, 12,2005,pp436-440.
42. Assessment of Heavy metal Species in decomposed Municipal Solid Waste, Sebasthiar Esakku, Ammaiyappan Selvam, Kurian Joseph and **Kandasamy Palanivelu**, Chemical Speciation and bioavailability,17(3),2005,95-102.
43. Selective Transport of Chromium (III) ion using a Supported Liquid Membrane, J.Senthilnathan, S.Mohan, **K.Palanivelu,** INDIAN SURFACE FINISHING, 2(3),2005,392-402.
44. Removal of textile dyes from aqueous solution using PEG based aqueous biphasic system, Meghna Dilip, G. Muthuraman, **K. Palanivelu**, Toxicological and Environmental Chemistry, 87(4)2005,499-507.
45. Electrochemical treatment of landfill leachtae, M.Nisha Priya, S. Esakku, **K. Palanivelu**, Indian Chemical Engineer 47B(4)2005,272-276.
46. Removal of textile dyes from textile dye effluent using TBAB based aqueous biphasic system, Meghna Dilip, P.Venkataeswaren. **K. Palanivelu**, Journal of Environmental Science & Engineering,47(3),2005,176-181.
47. Management of metal bearing industrial solid waste by stabilization/solidification process,journal of Indian Asoociation for Environmental management,32(2),2005,91-95.
48. Transport of textile dye in vegetable oils based supported liquid membrane G. Muthuraman, **K. Palanivelu**.Dyes and Pigments ,70(2),2006,99-104.
49. Recovery of phenol from aqueous solution by supported liquid membrane using vegetable oils as liquid membrane, P.Venkateswaran and **K. Palanivelu,** Journal of Hazardous Materials , *Volume 131, Issues 1-3, 17 April 2006, Pages 146-152*
50. Biosorption of copper (II) and cobalt (II) from aqueous solutions by crab shell particles. K.Vijayaraghavan, K**. Palanivelu** and M.Velan, Bioresource Technology , *Volume 97, Issue 12, August 2006, Pages 1411-1419* .
51. Biosorption of Nickel (II) ions by Sargassum wightii:Application of two parameters and three parameters isotherm models, K. Vijayaraghavan,T.V.N.Padmesh,**K.Palanivelu** and M. Velan, Journal of Hazardous Materials , *Volume 133, Issues 1-3, 20 May 2006, Pages 304-308* .
52. Treatment of Nickel containing electroplating effluents with Sargassium wighti biomass, K. Vijayaraghavan, **K.Palanivelu** and M. Velan,Process Biochemistry,41(4),2006,853-859.
53. Leachate quality of municipal solid waste dumpsites at Chennai, India, S.Esakku,A.Selvam,**K.Palanivelu**,R.nagendran and Kurian Joseph, Asian Journal of Water,Environment and Pollution , 3(1),2006,69-76.
54. Removal of total dissolved solids with simultaneous recovery of acid and alkali using bipolar membrane electrolysis-Application to RO reject of textile effluent,M.Nisha Priya and K.Palanivelu, Indian Journal of Chemical Technology, 13,2006, 262-268.

55. Treatability studies on textile effluent for total dissolved solids reduction using electrodialysis M.Chandramowleeswaran and **K.Palanivelu,** Desalination , 201(1-3),2006,164-174
56. 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 , G. Muthuraman, and **K. Palanivelu** , The Journal of Textile Institute ,97(4),2006.341-347.

57. TDS water quality assessment in the Tsunami affected coastal area of Chennai, **K.Palanivelu**,. M. Nisha Priya , A. Muthamil selvan and Usha Natesan , Current Science,91(5),2006,583-584.

58. Adsorptive removal of chlorophenols from aqueous solution by low cost adsorbent -kinetics and isotherm analysis, Radika,M and **K.Palanivelu ,** Journal of Hazardous Materials,138(1),2006,116-124.(http://top25.sciencedirect.com/index.php?subject_area_id=5&journal_id=03043894&cat_id=10).
59. Solvent extraction of silk dyes Acid Red 10 B and Acid Pink using tri-n-butyl phosphate as carrier. N.Hajarabeevi*, I. Mohammed Bilal* and **K.Palanivelu**, Indian Chemical Engineer,48(3),2006,154-159.
60. Recovery of 1-Butanol from a Model Pharmaceutical Aqueous Waste by Pervaporation, Srinivasan K, **K.Palanivelu** and Navaneetha Gopalakrishnan A, Chemical Engineering Science,62(11),2007,2905-2914.
61. Recovery of Acid red 10 B and Acid pink BE silk dyes by bulk liquid membrane using tri-n-butyl phosphate as carrier. N.Hajarabeevi, D. Easwaramoorthi and K.Palanivelu , Oriental Journal of Chemistry, 23(1),2007,155-160.
62. **T**extile anionic dyes recovery using tri- n butyl phosphate as carrier through supported liquid membrane. N.Hajarabeevi*, I. Mohammed Bilal*, S.Amalraj• and K.Palanivelu• **,** Journal of Environmental Science and Engineering, 49(1),2007,33-40.

63. Treatment of municipal landfill leachate by solar photocatalytic method using fixed titanium dioxde , **K. Palanivelu,** P.Venkateswaran ,S.Esakku and R.Ponethal, Journal of Environmental Science & Engineering ,49(1),2007,54-57.

64. Determination of AOX using locally prepared carbon - A comparative study with commercial activated carbon,M.Radika and **K.Palanivelu**, Indian Chemical Engineer , 49(2) , 2007, 125-133.
65. Biosorption of Cr(VI) from plating effluent using marine algal mass,E Thirunavukkarasu and K Palanivelu, Indian Journal of Biotechnology,6(3),2007,359-364.
66. Pervaporative recovery of perchloroethylene from the spent solvent of electroplating industry: Experiment and modelling studies, N Senthil Kumar and **K. Palanivelu** Journal of Scientific and Industrial Research,66(6),2007,490-494.

67. Speciation of heavy metals in electroplating industry sludge and wastewater r esidue using inductively coupled plasma, *P. Venkateswaran; S. Vellaichamy; K. Palanivelu,* Int. J. Environ. Sci. Tech., 2007 4 (4): 497-504,.

68. Carbon doping of TiO_2 for visible light photo catalysis-A review, **K.Palanivelu** , Ji sun Im and Young-Seak Lee, Carbon Science ,2007 8(3),214-224.

69. Degradation of 2, 4-dichlorophenol in aqueous solution by Sono-Fenton method, Praveena Juliya Dorathi., **K. Palanivelu** and Chang Soo Lee, Korean Journal of Chemical Engineering ,25(1),2008, x

70. Removal of Hexavalent Chromium on Chitosan-deposited Activated Carbon, Jeong-Min Lee , **K.Palanivelu** and Young-Seak Lee, Solid state phenomena 135(2008)85-88.

71. Transport modeling of hexavalent chromium with tri-n-butyl phosphate as carrier in a flat sheet supportred liquid membrane P.Venkateswaran, and **K. Palanivelu,** Ceylon Journal of Science (Accepted).

72. Removal and recovery of textile dye by liquid membrane using Tri –n- butyal phospahate as carrier, G. Muthuraman, and **K. Palanivelu** , Ceylon Journal of Science (Accepted).

15. Conferences : International Journal - 16
national Journal - 35
Total - 51

Conferences / Seminars Proceedings

1. Removal of Arsenic from water using red mud for rural water supply - **K. Palanivelu** and S. Mohan Babu, Proceedings of the Second Water Congress, March 1995, pp. 28-31.

2. Photocatalytic and other treatment methods of cyanide bearing industrial wastes - **K. Palanivelu** and G.B. Jaiprakash Narain in Workshop on Industrial Waste Water Treatment; Water Purification by Photosensitizes, March 1995, Madras.

3. Analytical methods for the speciation of Chromium in Environmental samples - D. Rajkumar and **K. Palanivelu**, Proceedings of Energy Crisis and Environment, Chennai, 1997, pp. 166-173.

4. Studies on defluoridation using alum impregnated polymeric adsorbent - **K. Palanivelu** and T. Kulandaivelu, International Conference on Management of Drinking Water Resources, December 1997, Chennai, pp. 175-180.

5. Sources and classification of waste - **K. Palanivelu** symposium on the impact of waste on ground contamination and the role of Civil Engineers, October 21-22, 1999, Chennai. pp. 1-10.

6. Good Laboratory Practices - **K. Palanivelu**, UGC Sponsored Seminar on 'Quality Control' of Environmental Analysis, December 18, 1999, Chennai.

7. Stabilization of Industrial Effluent Sludge - **K. Palanivelu** and G.B. Jaiprakash Narain, International conference on Hazardous waste Management, January 27-29, 2000, Chennai.

8. Photocatalytic Degradation of aqueous cyanide with red mud - **K. Palanivelu**, F. Schindler, National Seminar on Industrial Pollution and its control, Feb 18-19, 2000, BHU, Varanasi.

9. Removal and recovery of Phenol from Industrial effluent using liquid membrane – **K. Palanivelu** and S. Raghupathi – Seminar on Membrane Technologies for water and waste water reclamation, February 15-16, 2001, Chennai, pp.49-54

10. Studies on landfill mining at solid waste dumpsites in India- J. Kurian, S. Esakku, **K. Palanivelu** and A.Selvam, Proceedings Sardinia 2003,Ninth International Waste Management and Landfill Symposium.

11. Assesment of Heavy metals in a municipal solid waste dumpsite- S.Esakku, **K. Palanivelu** and Kurian Joseph, Proceedings of Sustainable Landfill Management ,December 2003,Chennai

12. Removal of trichloroethylene (TCE) from water by pervaporation: A laboratory – scale evaluation., N.Senthil kumar and **K. Palanivelu,** Emerging technologies for sustainable environment in chemical and allied industries, October 2004,Rourkela, India

13. Biosorption of cobalt(II) ions on marine macroalga Ulva reticulata, K.Vijayaraghavan
J.Jegan, **K. Palanivelu** and M.Velan, 57th annual session of Indian Institute of Chemical Engineers, CHEMCON-2004, Mumbai, India.

14. Sustainable chemistry for environmental protection ,Nisha Priya.M and **K.Palanivelu,** Proceedings of the conference on' Role of technical education in sustainable development, March 2005, Chennai, India.

15. Recovery of Silver from silver bearing effluent using polymer inclusion membrane,B.Saravanan and **K.Palanivelu**
National conference on solid and wastewater management and treatment technologies, March 2005,Chennai,India.

16. Green Chemistry for Pollution Abatement, K.Palanivelu,UGC sponsored seminar on ETRAMEP 2005,August 2005,Porayar,Tamilnadu.

17. .Adsorptive removal of chorophenols using waste coconut shell carbon-A comparatison with commercial activated carbon,M.Radhika and K.Palanivelu.,ICEM 2005, Pollution and control technologies,Hyderabad,India,Bspublications, 351-357

18. Biosorption of Nickel (II) ions from aqueous solution using a Green Seaweed *Ulva reticulate*", K. Vijayaraghavan, **R. Senthilkumar**, K. Palanivelu, M. Velan "in International Conference on Chemical and Bio Process Engineering held at Malaysia (December 2005)

19. Transport mechanism and kinetic model for the recovery of phenol by supported liquid membrane using palm oil as liquid membrane. Symposium on emerging trends in separation science and technology (SESTEC-2006) organized by Bhabha Atomic Research Centre, Bombay (September 29 – October 1, 2006).

20. Facilitated transport of silkdye Acid Red 10 B through bulk liquid membrane usingtri-n-butyl phosphate as carrier, N.Hajarabeevi , Sindu Jeyakumar, I. Mohammed Bilal1and K.Palanivelu. Proceedings of the International conference on Cleaner Technologies and EnvironmentalManagement, PEC, Pondichery, India, January 4-6 2007.pp 282-286.

21. Preparation of TiO2-CNT composite for the Photocatalytic Degradation of Methylene blue dye, Sang-Jin Kim, JeenSeok Jang, K.Palanivelu and Young-Seak Lee,The Carbon Society Spring Conference, May 17-18, 2007,Kwanju,South Korea.

22. Degradation of Procian Blue dye in aqueous solution by CNT –TiO_2 photo catalysis, Oh Seob kwon, JeenSeok Jang K.Palanivelu and Young-Seak Lee, The Carbon Society Spring Conference, May 17-18, 2007,Kwanju,South Korea.

23. Heterogeneous Photo-Fenton Degradation of Rhodamine B dye with Carbon Nano Tube containing iron oxide , Min Il kim, K.Palanivelu and Young-Seak Lee, The Carbon Society Spring Conference, May 17-18, 2007,Kwanju,South Korea.

Conference / Seminar

1. Removal of Arsenic from water by Alum Coagulation - **K. Palanivelu** and S. Mohan Babu in South India Regional Symposium on Water Treatment for Domestic / Industrial Sector, March 1996, Kozhikode.

2. Determination of hexavalent and total chromium in Environmental samples - **K. Palanivelu** and D. Rajkumar, Indian Council of Chemistry, 15th Conference, 1996, Aurangabad.

3. Studies on defluoridation of ground water using chemically impregnated paddy husk ash - **K. Palanivelu** and V. Karuna Sekhar Babu, National Seminar on Water Quality Surveillance and Sustainable Issues, December 10-13, 1997, Gandhigram, p. 22.

4. Colour removal studies from instant office industrial effluent - **K. Palanivelu** and R. Vijayabaskaran, International Conference on Chemistry, Industry and Environment, February 9-11, 1998, Aligarh, p. 43.

5. Stabilisation / Solidification of waste containing arsenic and its toxicity evaluation - **K. Palanivelu** and T.S. Kumaravel, Environment India'98 Conference, 1998, New Delhi, pp. 92.

6. Quality control (QC) and Quality Assurance (QS) for analysis of Hazardous Wastes – **K. Palanivelu**, National seminar on “Better World Environment through Engineering, Education and Management, November 18-20, 1998, Chennai

7. Removal of colour from instant coffee industrial effluent - **K. Palanivelu** and R. Vijayabaskaran, 86th Session of the Indian Science Congress, January 3-7, 1999, Chennai.

8. Chemical Methods of Wastewater, Treatment - **K. Palanivelu** UGC sponsored seminar on 'Modern methods of Treatment of Salinity in seawater and corrosion studies, March 31, 1999, Adirampattinam.

9. Landfill Mining – Kurian Joseph, R.Nagendran, **K. Palanivelu** and S.Thayumanavan, presented at Seminar on Solid Waste Management, organized by University of Peradeniya, August 27, 2001, Colombo, SriLanka.

10. Rehabilitation of Municipal Solid Waste Dumpsites – Kurian Joseph, R.Nagendran, **K.Palanivelu** and S.Thayumanavan – presented at 17th National Convention of Environmental Engineers, November 23-25, 2001, Trivandrum, Kerala.

11. Removal of chromium from tannery waste using treated red onion skin-J.Senthilnathan and **K. Palanivelu** IIT-Bombay National Conference on Advances in Environmental Science and Engineering, December 2003.

12. Removal and recovery of textile dye golden yellow LS from aqueous solution using liquid membrane-G.Muthuraman and **K. Palanivelu,** National symposium on environmental friendly textile processing (NSEFTP-2004) Poondi.

13. Extraction and stripping study of Acid red 10 B and Acid pink anionic silk dyes using tri-n- butyl phosphate as carrier, n.Hajarabeevi, I. Mohammed Bilal, P.Venkateswaran and **K.Palanivelu** , National , Feb. 2005,Chennai,India.

14. Removal of hexavalent chromium from plating effluent using marine algal mass, E.Thirunavukkaarasu and **K.Palanivelu**,Second national conference on'Applications of emerging technologies,March 2005,India. (**Best paper award**).
15. Combination of electrochemistry and solar energy in the treatment of textile dyeing washwater- A step toward sustainable technology,M.Nishyapriya and **K.palanivelu, ISC 2005**,August 2005, Kuala Lupur, Malaysia
16. Removal of Acid Dyes from Aqueous Solution Using PEG Based Aqueous Biphasic System K.Palanivelu*and N.Kavitha**, ISC 2005**,August 2005, Kuala Lupur, Malaysia.
17. Recovery of lead (II) from aqueous solutions by flat sheet supported liquid membrane: Batch experimental studies and transport modeling, P.Venkateswaran and **K.Palanivelu**, ICEM 2005,October 28-30,Hyderabad,India.
18. Separation and concentration of nickel (II) from wastewater using supported liquid membrane containing 2-(ethylhexyl amine) as carrier: batch experimental studies. P.Venkateswaran and **K.Palanivelu**, Singapore International Chemical Conference 4, December 8 – 10 2005, Singapore.
19. Separation of cresols by a supported liquid membrane containing palm oil as liquid membrane – A green approach, P.Venkateswaran and **K.Palanivelu**, Second International Symposium on Green/sustainable Chemistry. 10 –13 January 2006,New Delhi.
20. Removal of acid dyes from aqueous solution using poly vinylpyrrolidone based aqueous biphasic system,N.Kavitha and **K.Palanivelu,** Second International Symposium on Green/sustainable Chemistry. 10 –13 January 2006,New Delhi.
21. Wastewater treatment using green power,(C4-Energy- I)M. Nisha Priya and K.Palanivelu, Conference on " Creating sustainability within our midst' USSEE,June 23-27,2007,USA.

22. Transport of PNP (p-Nitrophenol) through PDMS (Poly Dimethyl Siloxane) membrane (P-97), C.S. Lee and K.Palanivelu, KICHE Fall meeting, 26-27 October 2007, KAIST, Daejeon, South Korea.
23. Photocatalytic degradation of Methylene Blue dye using TiO_2 mounted MWCNT composite, Sang Jin Kim,K.Palanivelu and Y.S.Lee, 36 th KSIEC Fall meeting, 2-3, November 2007, Hankyong National University,Anseong, South Korea.
24. Prepapration and Characterization of fluorine doped TiO2 for photodegradation,SeokMin, K.Palanivelu and Y.S.Lee, 36 th KSIEC Fall meeting, 2-3, November 2007, Hankyong National University,Anseong, South Korea.
25. Role of pH in TiO2 coated MWCNT photocatalysis,Oh Seob, K.Palanivelu and Y.S.Lee, 36 th KSIEC Fall meeting, 2-3, November 2007, Hankyong National University,Anseong, South Korea.
26. Removal of organic pollutant using photodegradation based on photo-assisted Fenton reaction by Fe_2O_3/MWCNTs composite, Min Il kim K.Palanivelu and Y.S.Lee, 36 th KSIEC Fall meeting, 2-3, November 2007, Hankyong National University,Anseong, South Korea.
27. Preparation and characterization of carbon doped TiO_2 using sucrose for photodegradation, SeokMin, Ji sun Im,K.Palanivelu and Y.S.Lee, 5 th Japan-China-korea Joint symposium –carbon saves the earth, nov.5-7,2007,Iota,Japan.

16. Awards : Research Fellowship by UGC & CSIR (in 1985)

17. Books/Patents : Chapters in Books (4)

1. Wastewater Treatment by Liquid Membrane Process - **K. Palanivelu** in Advances in Industrial Wastewater Treatment (Ed., P.K. Goel), Technoscience Publications, Jaipur, 1999.

2. Separation and Spectrophotometric Determination of Inorganic and Methylated arsenic species in environmental samples - **K. Palanivelu**, N. Balasubramanian and T.V. Ramakrishna (Advances in Environmental Science – (Ed., C.S.P. Iyer), Educational Publishers and Distributors, 1997, pp. 233-241).

3. Photocatalytic degradation of cyanide by red mud under solar light - **K. Palanivelu** and D. Srinivas, 14th National Symposium on Catalysis, 16-18th December 1998, Chennai. (Recent Trends in Catalysis (Ed., V. Murugesan et al), Narosa publishing House, 1999, pp. 708-711.

4. Vegetable oil as greener liquid membrane, P. Venkateswaran and **K. Palanivelu** in New Trends in Hazardous materials, Nova Publishers,2007.

18. Social activities : Water & air quality studies of community areas related to development projects

Signature