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Present Position

Professor, Centre for Environmental Studies, College of Engineering Guindy, Anna University, Chennai from June-2008.

Previous Positions

- > Professor, , College of Engineering Guindy, Anna University, Chennai from May-2008.
- > Associate professor, Centre for Environmental Studies, College of Engineering Guindy, Anna University, Chennai during June-2005 and June-2008.
- > Assistant Professor, , College of Engineering Guindy, Anna University, Chennai during June-2000 and July-2005.
- > Lecturer Sr. Grade, Centre for Environmental Studies, College of Engineering Guindy, Anna University, Chennai during May-1998 and June-2000.
- > Lecturer, , College of Engineering Guindy, Anna University, Chennai during January-1991 and May-1998.

Previous Additional Responsibility

- > Director, , Anna University, Chennai during June-2012 and June-2015.
- > , , Anna University, Chennai.
- > , , Anna University, Chennai.
- > , , Anna University, Chennai.

Other Employment

- > Research Associate, Central Leather Research Institute for 1988-1990.
- > Deputy Manager (R and D), Uni-Sankyo Ltd, Hyderabad for 1989 to 1990.
- > Research Officer, (Biotechnology Divn.), Tamil Nadu Dadha Pharmaceuticals Pvt. Ltd., for 6 months.

Degree

- ❖ M.Sc. in BIO - TECHNOLOGY , , University of Madras (1981 - 1982).

Research Degree

- ❖ Ph.D. in Environmental Biotechnology University of Madras (1983 - 1988).
Title: Degradation of Lignin and Lignin Model Compounds by Microorganisms.

Area of Specialisation

- Environmental Biotechnology

Membership in Professional Organization

- Engineering Foundation, USA
- Federation of Asian and Oceanian Biochemists
- Association of Microbiologists, India
- Society of Biological Chemists, India
- Tamil Nadu Academy of Sciences
- Indian Water Works Association

Research Guidance

Number of Ph.D Scholars Guided	: 14
Number of Ph.D Scholars Guiding	: 8
Number of M.E./ M.Tech. Projects Guided	: 81

Papers Published in Journals

Research Papers Published in International Journals	: 62
Research Papers Published in National Journals	: 6

1. " Microbial degradation of lignin and tannin. William, F., K. Boominathan,. ", Biochemical Reviews , pp. 1-12 (1985).
2. Vasudevan, N. and A. Mahadevan, " Degradation of p-benzyloxy phenol by Acinetobacter sp. ", FEMS Microbiology Letters, Vol. 56, pp. 349-354 (1988).

3. " Effect of a simple lignin model substrate on the growth of microorganisms from different environments. ", *Current Science*, Vol. 59, pp. 52-54 (1989).
4. " Degradation of 3(o-methoxyphenoxy)1,2-propanediol (Guaiacolglyceryl)ether by *Acinetobacter* sp. ", *Journal of Biotechnology* , Vol. 9, pp. 107-116 (1989).
5. " Degradation of black liquor lignin by microorganisms.", *Holzforschung*, Vol. 44, pp. 325-330 (1989).
6. " 1990. Degradation of labelled lignins and veratrylglycerol-B-gugiacyl ether by *Acinetobacter* sp. I", *Italian Journal of Biochemistry*, Vol. 39, pp. 285-293 (1990).
7. " Diversity in the utilization of catechin by microorganisms. ", *Current Science* , Vol. 59, pp. 1323-1325. (1990).
8. " Degradation of lignin and lignin derivatives by *Acinetobacter* sp..", *Journal of Applied Bacteriology* , Vol. 72, pp. 169-176. (1991).
9. "Degradation of complex phenolic compounds by *Acinetobacter* sp. ", *Applied Microbiology and Biotechnology* , Vol. 37, pp. 404-407. (1992).
10. " Degradation of nonphenolic B-o-4 lignin substructure model compounds by *Acinetobacter* sp.", *Research in Microbiology*, Vol. 13, pp. 333-339 (1992).
11. "Degradation of indulin by *Candida albicans*", *Biochemistry International* , Vol. 26, pp. 317-325 (1992).
12. " Degradation of indulin by *Acinetobacter* sp. ", *Journal of Experimental Biology*, Vol. 31, pp. 252-255 (1993).
13. " Plasmid mediated degradation of hydroxylated, methoxylated and carbonxylated benzene derivatives by *Moraxella* sp.. ", *Annals of New York Academy of Sciences*, Vol. 721, pp. 399-406. (1994).
14. P.Lakshmanaperumalswamy, " Degradation of crude oil by a bacterial consortium", *Pollution Research* , Vol. 18, pp. 245-249 (1999).
15. Rahman, K.S.M., N.Vasudevan and P. Lakshmanaperumalswamy, " Enhancement of biosurfactant production for emulsification of hydrocarbons", *Indian Journal of Environment and Pollution*, Vol. 6, pp. 85-93 (1999).
16. "Treatment of phenolic wastewater by *Moraxella* sp", *Indian Journal of Environmental Protection* , Vol. 20, pp. 88-100 (2000).
17. Vasudevan. N and P. Rajaram, " Bioremediation of oil sludge-contaminated soil", *Environment International* , Vol. 26, pp. 5-7 (2001).
18. "Utilization of petroleum hydrocarbons by *Pseudomonas fluorescens* isolated from a petroleum-contaminated soil", *Environment International*, Vol. 26, pp. 1-4 (2001).
19. "Bioremediation of crude oil contaminated soil by bioaugmentation of *Pseudomonas fluorescens* ", *Journal of Environmental Science and Health-Part A*, Vol. 38, (2003).

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20. Srikanth, M., N.Vasudevan, M. Kaestner, "Degradation of anthracene and pyrene supplied by microcrystals and non-aqueous-phase liquids", *Applied Microbiology and Biotechnology*, Vol. 67, pp. 569-576 (2005).
 21. O. Lefebvre, N. Vasudevan, M. Torrijos, K. Thanasekaran and R. Moletta, "Halophilic biological treatment of tannery soak liquor in a sequencing batch reactor", *Water Research*, Vol. 39, pp. 1471-1480 (2005).
 22. O. Lefebvre, N. Vasudevan, M. Torrijos, K. Thanasekaran and R. Moletta, "Anaerobic digestion of tannery soak liquor with an aerobic post-treatment", *Water Research*, Vol. 40, pp. 1492-1500 (2005).
 23. Srikanth, M., N. Vasudevan, M. Kastner and J. Heipieper, "Changes in fatty acid composition of *Chromohalobacter israelensis* with varying salt concentrations", *Current Microbiology*, Vol. 50, pp. 151-154 (2005).
 24. R.Jayashree and N.Vasudevan, "Residues of organochlorine pesticides in agricultural soils of Thiruvallur District, Tamilnadu", *Journal of Agriculture*, Vol. 4, pp. 313-316 (2006).
 25. O. Lefebvre, N. Vasudevan, M. Torrijos, K. Thanasekaran and R. Moletta, "Microbial diversity in hypersaline wastewater: the example of tanneries Extremophiles", Vol. 10, pp. 505-513 (2006).
 26. R.Jayashree and N. Vasudevan, "Surfactants enhanced recovery of endosulfan from contaminated soils", *International Journal of Environmental Science and Technology*, Vol. 3, pp. 253-261 (2006).
 27. "Essentials of Environmental Science—A Text Book.", published by Narosa Publishing House Pvt. Ltd., New Delhi . (2006).
 28. "Essentials of Environmental Science", published by Science Publishers, UK (2006) . (2006).
 29. N.Vasudevan, P.Selvapathy and K.Thanasekaran (ed), "Proceedings of the International Conference on Advances in Industrial Wastewater Treatment. ", (2006).
 30. Vasudevan, N. and P. Arulazhagan, "Surfactants mediated recovery of anthracene and pyrene from contaminated soil", *Asian Journal of Microbiology, Biotechnology and Environmental Science*, Vol. 9, pp. 237-242 (2007).
 31. Jayashree, R. and N. Vasudevan, "Effect of Endosulfan on Soil Bacteria", *Journal of Ecotoxicology and Environmental Monitoring*, Vol. 17, pp. 295-299 (2007).
 32. Jayashree, R. and N. Vasudevan, "Surfactant enhanced remediation of hydrophobic contaminants", *Applied Ecology and Environmental Research*, Vol. 53, pp. 293-297 (2007).
 33. Jayashree, R. and N. Vasudevan, "Persistence and Distribution of Endosulfan under Field Condition", *Environmental Monitoring and Assessment*, Vol. 131, pp. 475-487 (2007).
 34. Vasudevan.N., S. Bharathi and P. Arulazhagan, "Role of plasmid in the degradation of petroleum hydrocarbon by *Pseudomonas fluorescens* NS1", *Journal of Environmental Science and Health Part A*, Vol. 42, pp. 1141-1146 (2007).

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35. Jayashree, R. and N. Vasudevan, "Effect of Tween 80 added to the soil on the degradation on the degradation of endosulfan by *Pseudomonas aeruginosa*", *International Journal of Environmental Science and Technology* , Vol. 4, pp. 203-210 (2007).
 36. Srikanth, M., N. Vasudevan and D. Beck, "Influence of bioaugmentation with wheat bran on bioremediation of anthracene contaminated soil", *Pollution Research* , Vol. 25, pp. 753-756 (2007).
 37. Jayashree. R. and N. Vasudevan, "Bioremediation of pesticide contaminated soils", *Asian Journal of Microbiology and Environment*, Vol. 10, Issue 3, pp. 527-532 (2008).
 38. Arulazhagan. P and N. Vasudevan, " Role of moderately halophilic bacterial consortium in the biodegradation of polycyclic aromatic hydrocarbons", *Marine Pollution Bulletin*, Vol. 58, pp. 256-262 (2009).
 39. Sudha. S and N.Vasudevan, "Constructed wetlands for treating wastewater from crocodile farm", *journal of ecotoxicology environmental monitoring*, Vol. 19, pp. 277-284 (2009).
 40. Supriya. P and N. Vasudevan, "Denitrification of nitrogenous wastewater using upflow anaerobic packed bed columns", *Journal of Ecotoxicology and Environmental Monitoring* , Vol. 17, pp. 501-506 (2009).
 41. V.R.Manoj and N. Vasudevan, "Sustainable Aquaculture-Options and Functional Score sheet based approach", *Reviews in Fisheries Science*,, Vol. 17, pp. 336-347 (2009).
 42. Veenagayathri, K. and N. Vasudevan., "Isolation of bacterial strains degrading high concentration of phenol from wastewater contaminated sites", *Journal of Pure and Applied Microbiology*, Vol. 3, pp. 567-572 (2009).
 43. Jayashree. R. and N. Vasudevan, "Effect of endosulfan on seed germination, growth and yield of ground nut crop", . *Journal of Ecotoxicology and Environmental Monitoring* , Vol. 19, pp. 149-156 (2009).
 44. Jayashree, R. and N. Vasudevan, " Organochlorine pesticide residues in groundwater of Thiruvallur district", *Environmental Monitoring and Assessment* , Vol. 128, pp. 209-215 (2009).
 45. Jayashree, R. and N. Vasudevan, "Effect of Tween and moisture regimes on Endosulfan degradation", *Journal of Environmental Science Applied Ecology and Environmental Research*, Vol. 7, pp. 35-44 (2009).
 46. Veenagayathri.K and N.Vasudevan, "Degradation of tannin at high concentrations by a bacterial consortium isolated from tannery effluent soil", *Biotechnology-An Indian Journal* , Vol. 4, pp. 14-18 (2010).
 47. Veenagayathri. K and N.Vasudevan, " Effect of nitrogen sources on the degradation of phenol by the isolated bacterial consortium under saline conditions", *International Journal of Biotechnology and Biochemistry*, Vol. 6, pp. 783-791 (2010).
 48. Arulazhagan. P, N. Vasudevan and I. T. Yeom, "Biodegradation of polycyclic aromatic hydrocarbon by a halotolerant bacterial consortium isolated from marine environment", *Journal of Environmental Science and Technology*, Vol. 7, pp. 639-652 (2010).

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49. Kanimozhi and N. Vasudevan, " An overview of wastewater treatment in distillery industry", *International Journal of Environment and Waste Management* , Vol. 2, pp. 159-184 (2010).
 50. Jayashree. R. and N. Vasudevan, "Trends in Organochlorine pesticide pollution in India", *Journal of Ecotoxicology and Environmental Monitoring*, Vol. 19, pp. 179-186 (2010).
 51. Veenagayathri, K. and N.Vasudevan, "Biodegradation of formaldehyde under saline conditions by a moderately halophilic bacterial consortium", *Current World Environment* , Vol. 5, pp. 31-38 (2010).
 52. Veenagayathri, K. and N.Vasudevan, " Enrichment of Phenol Degrading Moderately Halophilic Bacterial Consortium from Saline Environment", *Journal of Bioremediation & Biodegradation* , Vol. 1, pp. 100-104. (2010).
 53. Kanimozhi and N. Vasudevan, "Combined biological and chemical treatment of anaerobically digested distillery wastewater", *Journal Advanced Oxidation Technologies*, Vol. 13, pp. 221-227 (2010).
 54. Vasudevan. N. and R.Kanimozhi, "Decolorization of Azo Dye, Acid Red-18 by *Phanaerochaete chrysosporium*", *Journal of Environmental Science and Engineering*, Vol. 53, pp. 349-354 (2011).
 55. Veenagayathri, K. and N. Vasudevan., "Ortho and meta cleavage dioxygenases detected during the degradation of phenolic compounds by a moderately halophilic bacterial consortium", *International Research Journal of Microbiology*, Vol. 2, pp. 406-414 (2011).
 56. Veenagayathri, K. and N.Vasudevan, " International Research Journal of Microbiology", *Journal of Microbiology*, Vol. 2, pp. 406-414 (2011).
 57. Arulazhagan, P. and N. Vasudevan, " Biodegradation of polycyclic aromatic hydrocarbons by a halotolerant bacterial strain *Ochrobactrum* sp. VA1. ", *Marine Pollution Bulletin* , Vol. 62, pp. 388-397 (2011).
 58. Arulazhagan, P. and N. Vasudevan, " Role of nutrients in the utilization of Polycyclic Aromatic Hydrocarbons by halotolerant bacterial strain", *Journal Environmental Science*, Vol. 23, pp. 282-287 (2011).
 59. Sudha, S and N. Vasudevan, "Studies on adsorption of Nickel on sand from constructed wetland and effect of leaching agents.", *Environmental Science and Engineering*, Vol. 54, pp. 345-352 (2012).
 60. Greeshma, O and N. Vasudevan, "Enhanced biodegradation of endosulfan and its major metabolite endosulfate by a biosurfactant producing bacterium. ", *Journal of Environmental Science and Health Part B*, Vol. 48, pp. 462-469 (2012).
 61. "Performance studies on constructed wetland for treatment of crocodile pond wastewater", *International Journal Environmental Waste Management*, Vol. 9, pp. 141-153. (2012).
 62. Manoj V.R. and N.Vasudevan, "Removal of nutrients in denitrification system using coconut coir fibre for the biological treatment of aquaculture wastewater", *Journal of Environmental Biology* , Vol. 33, pp. 271-276 (2012).

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63. Venagayathri, K and N. Vasudevan, "Degradation of 4-Chlorophenol by a moderately halophilic bacterial consortium under saline conditions. ", British Research Microbiology Journal, Vol. 3, Issue 4, pp. 513-524 (2013).
 64. Greeshma, O and N. Vasudevan, "Toxicity and bioremediation of pesticides in agricultural soil", Reviews in Environmental Science and Biotechnology, Vol. 12, Issue 4, pp. 421-444. (2013).
 65. Manoj, V.R. and N. Vasudevan, "Integrated modified anaerobic baffled reactor with aerobic post treatment for nutrient removal from aquaculture wastewater. ", Environment Conservation, Vol. 15, pp. 177-184 (2014).
 66. Veenagayathri, K. and N. Vasudevan, "Degradation of dual phenolics by a moderately halophilic bacterial consortium and its degradation products.", International Journal of Current Microbiology and Applied Sciences, Vol. 4, pp. 1083-1095 (2015).
 67. Usharani, B. and N. Vasudevan, " Impact of heavy metal toxicity and constructed wetland system as a tool in remediation.", Archives of Environmental and Occupational Health, Vol. 10, pp. 1933- (2016).
 68. "Eco-friendly approach for leaching out heavy metals from sewage sludge.", Chemistry and Ecology, (2016).

Papers Presented in Programmes

Research Papers Presented in International Programmes	: 36
Research Papers Presented in National Programmes	: 23

1. "Degradation of an industrial lignin by microorganisms" presented in an International level conference on Symposium on Plant Microbe Interaction: Proceedings of the 74th Session of the Indian Science Congress, India .
2. "Enzymatic dehairing of hides and skins using microbial protease" presented in a National level conference on 57th Annual Meeting of the Society of Biological Chemists, India .
3. "Biodegradation of lignin by *Acinetobacter* sp" presented in an International level workshop on FEMS *Acinetobacter* Workshop, France .
4. "Diverse pathways associated with tannin degradation" presented in a National level seminar on National Seminar on Microbial degradation of aromatic compounds, India .
5. "Degradation of complex aromatic substances and the influence of nitrogen sources on 3-(o-methoxyphenoxy)1,2-propanediol degradation" presented in a National level seminar on National Seminar on Microbial degradation of aromatic compounds, India .
6. "Isolation of a mesophilic bacterium, *Moraxella* sp. Capable of degrading phenol" presented in an International level conference on 6th Federation of Asian and Oceanian Biochemists Congress, China .
7. Vasudevan, N. J.D. Silva, K. Hemalatha, D.Walther and K. , "Constructed wetland system in the treatment of contaminated water for reuse" presented in a National level conference on 12th World Lake Conference, India .

8. "Feasibility studies on the impact of bioremediation process in contaminated urban lake environments" presented in a National level conference on 12th World Lake Conference, India .
9. Sivaraman, C., N.Vasudevan, and D.Walther, "Microbial denitrification of nitrate-laden wastewater using upflow anaerobic packed bed columns" presented in a International level conference on Association of Microbiologists of India, India .
10. "Prespectives in Biological treatment of Aqua- culture wastewater" presented in a International level conference on 48th Annual Conference of the Association of Microbiologists of India, India .
11. "Reuse of constructed " presented in a International level conference on International Symposium on Bioremediation and Sustainable Environmental Technologies.
12. "Sustainable bioremediation of aquaculture wastewater by development of conceptual model for decentralized treatment" presented in a International level conference on International Symposium on Bioremediation and Sustainable Environmental Technologies.
13. "Feasibility of Physicochemical and Biological Methods in the Restoration of Eutrophic Urban Water body" presented in a International level conference on , International Symposium on Bioremediation and Sustainable Environmental Technologies, India .
14. "Degradation of lignins by microorganisms" presented in a National level conference on 25th Annual Meeting, Association of Microbiologists, India from 07-Dec-1984 to 09-Dec-1984.
15. Vasudevan, N. and N. Palanisamy, "Effect of carbohydrates on the degradation of teak wood lignin" presented in a National level conference on 26th Annual Meeting, Society of Biological Chemists, India from 15-Dec-1985 to 17-Dec-1985.
16. "Microbial degradation of lignin and model substances" presented in a National level conference on IX All India Botanical Congress, India from 28-Dec-1986 to 30-Dec-1986.
17. "A study on the involvement of polyphenol oxidase and peroxidase in lignin degradation by microorganisms" presented in a National level conference on I National Symposium on Trends in Biotechnology, India from 04-Jun-1987 to 06-Jun-1987.
18. Vasudevan, N., F. William and A. Mahadevan, "Bacterial degradation of veratrylglycerol-B-guaiacyl ether, a dimer structurally related to lignin" presented in a International level conference on II International seminar on Enzymatic Hydrolysis of Biomass,, Brazil from 07-Dec-1987 to 10-Jun-2014.
19. "Studies on the *Streptomyces moderatus* protease with reference to unhairing of sheep skins" presented in a International level conference on 5th Federation of Asian and Oceanian Biochemists Congress, Korea from 13-Aug-1989 to 18-Aug-1989.
20. "Plasmid mediated degradation of hydroxylated, methoxylated and carboxylated benzene derivatives in *Moraxella* sp" presented in a International level conference on Recombinant DNA Technology II, USA from 31-Jan-1993 to 03-Feb-1993.
21. "Degradation of crude oil by mixed and pure bacterial cultures" presented in a International level conference on Recombinant DNA Technology II, USA from 31-Jan-1993 to 03-Feb-1993.

22. "Optimization of pH and temperature conditions for biological treatment of phenol containing wastewater" presented in a International level conference on International Conference of Society of Civil Engineers, India from 10-Mar-1993 to 12-Mar-1993.
23. "Treatment and disposal of hazardous wastes by bioremediation techniques" presented in a International level seminar on Seminar on Hazards Control in Material Handling, India from 22-Jun-1993.
24. "Metabolism of phenol by *Moraxella* sp. And its application in wastewater treatment" presented in a International level conference on Engineering Foundation Conference on Enzyme Engineering XII, France from 19-Sep-1993 to 24-Sep-1993.
25. "Biosurfactant production by a *Pseudomonas* sp" presented in a International level conference on Engineering Foundation Conference on Advances in Biopolymer Engineering, USA from 23-Jan-1994 to 28-Jan-1994.
26. "Biosurfactant production by a Pseudo- " presented in a National level conference on Microcon International Conference, India from 09-Nov-1994 to 12-Nov-1994.
27. Vasudevan, N., R. Nagendran and V.S. Govindan, "Water Quality Surveillance—Need and Management Options for Rural Supplies" presented in a National level conference on Second Water Congress, India from 10-Mar-1995 to 11-Mar-1995.
28. "Degradation of hydrocarbons by *Pseudomonas* sp" presented in a International level conference on 5th International Symposium on *Pseudomonas* Biotechnology and Molecular Biology, Japan from 21-Aug-1995 to 25-Aug-1995.
29. "Microbial Engineering for Wastewater Treatment—Treatment of phenolic wastewater by *Moraxella* sp" presented in a International level conference on II International Conference on Ecological Engineering for Wastewater Treatment, Switzerland from 18-Sep-1995 to 22-Sep-1995.
30. "Degradation of crude oil by bacterial consortium" presented in a National level conference on National Symposium on Frontiers in Applied Environmental Microbiology, India from 11-Dec-1995 to 13-Dec-1995.
31. "Reed bed technology for wastewater treatment" presented in a International level conference on 4th International Conference on Managing the Resource—Ecological Engineering for Wastewater Treatment, Norway from 07-Jan-1999 to 11-Jun-1999.
32. "Microbial detoxification and remediation of petroleum contamination" presented in a National level workshop on Workshop on Bioremediation of Polluted Habitats, organised by TNAU, Coimbatore, India from 22-Mar-1999 to 23-Mar-1999.
33. "Decolorization of azo dyes by whiterot fungi" presented in a International level conference on 4th International Conference on Managing the Resource—Ecological Engineering for Wastewater Treatment, Norway from 07-Jun-1999 to 11-Jun-1999.
34. "Metabolism of polyaromatic compounds in the wastewater by a bacterial consortium" presented in a International level conference on XII International Conference on Chemistry for Protection of the Environment, China from 18-Sep-1999 to 21-Sep-1999.

35. "Biotreatment of petroleum oil sludge contaminated soil" presented in a International level conference on Third International Conference on Environmental Chemistry and Geochemistry in the Tropics—GEOTROP -99, Hong Kong from 24-Nov-1999 to 27-Nov-1999.
36. Vasudevan, N. and J. Sowmya, "Utilization of petroleum hydrocarbons by *Pseudomonas fluorescens*" presented in a International level conference on Third International Conference on Environmental Chemistry and Geochemistry in the Tropics—GEOTROP -99, Hong Kong from 24-Nov-1999 to 27-Nov-2014.
37. "Bioremediation of soil contaminated with chlorophenols" presented in a International level workshop on Towards Better Management of Wastewater and Contaminated Sites in Australasia Pacific Region, Australia from 03-May-2000 to 05-May-2000.
38. "Mineralization of Polyaromatic hydrocarbons by a bacterial consortium. Biotechnology 2000" presented in a International level conference on The World Congress on Biotechnology, Germany from 03-Sep-2000 to 08-Sep-2000.
39. "Treatment of concentrated textile wastewaters with halophilic microorganisms" presented in a International level conference on Third International Congress on Extremophiles, Germany from 03-Sep-2000 to 07-Sep-2000.
40. "Selection of Extreme halophilic bacterial strains for waste disposal" presented in a International level conference on Third International Congress on Extremophiles, Germany from 03-Sep-2000 to 07-Sep-2000.
41. "Performance of Root Zone Treatment for domestic wastewater at Sholinganallur, Chennai" presented in a National level conference on International Conference on Constructed Wetlands for Wastewater Treatment in Tropical and Subtropical Regions, India from 11-Dec-2000 to 13-Dec-2000.
42. "Planning and erection of two field research Root Zone Treatment Plants at Anna University, Chennai, India" presented in a National level conference on International Conference on Constructed Wetlands for Wastewater Treatment in Tropical and Subtropical Regions, India from 11-Dec-2000 to 13-Dec-2000.
43. Barathi, S. and N. Vasudevan, "Bioremediation of crude oil contaminated soil. National Seminar on Biotechnology in Industry" presented in a National level conference on National Seminar on Biotechnology in Industry, India from 19-Sep-2002 to 20-Sep-2002.
44. "Sequencing Batch Reactor—An Efficient Alternative to Activated Sludge Process" presented in a National level conference on National Conference on Environment and Sustainable Development, India from 16-Feb-2006 to 17-Feb-2006.
45. "Options for sustainable aquaculture" presented in a National level conference on National Conference on Current Perspectives in Aquatic Biology, India from 17-Mar-2006 to 18-Apr-2006.
46. "Treatment of Crocodile Pond Wastewater using Constructed Wetland System" presented in a National level conference on National Conference on Current Perspectives in Aquatic Biology, India from 17-Mar-2006 to 18-Mar-2006.

47. "Feasibility of constructed wetland system as a cost-effective approach to treat captive animal wastewaters " presented in a International level conference on International Symposium on Environmental Biotechnology, Germany from 09-Jul-2006 to 13-Jul-2006.
48. "Degradation of polyaromatic hydrocarbons by a halophilic bacterium." presented in a International level conference on International Symposium on Environmental Biotechnology, Germany from 09-Jul-2006 to 13-Jul-2006.
49. "Adsorption of Nickel on sand and its leaching in a constructed wetland system" presented in a International level conference on International Conference on Environment , Malaysia from 13-Jul-2006 to 15-Nov-2006.
50. "Treatment of anaerobically digested distillery spent wash in a sequencing batch reactor" presented in a International level conference on International Conference on Environment , Malaysia from 13-Nov-2006 to 15-Nov-2006.
51. "Aerobic biodegradation of phenolic compounds under hypersaline environment" presented in a International level conference on International Conference on Environment, Malaysia from 13-Nov-2006 to 15-Nov-2006.
52. "Reusability of constructed wetland system for its efficiency in treating metal contaminated wastewater" presented in a National level conference on 2nd Specialized Conference on Small Water and Wastewater Systems, India from 06-Feb-2008 to 09-Feb-2008.
53. Kanimozhi, R., and N. Vasudevan, "Aerobic treatment of anaerobically digested distillery spentwash in a sequencing batch reactor" presented in a National level conference on 2nd Specialized Conference on Small Water and Wastewater Systems, India from 06-Feb-2008 to 09-Feb-2008.
54. Sivaraman, C., J.Sowmya, V.R.Manoj and N.Vasudevan, "Suitability of natural and synthetic media in the denitrification of aquaculture wastewater" presented in a National level conference on Association of Microbiologists of India, India from 18-Nov-2008 to 20-Nov-2008.
55. "Aerobic biodegradation of phenolic compounds under hypersaline environment" presented in a National level conference on Association of Microbiologists of India, India from 18-Nov-2008 to 20-Nov-2008.
56. "Role of halotolerant bacterial consortium in biodegradation of polyaromatic hydrocarbons under saline condition" presented in a International level conference on International Conference on Microbes in Wastewater and Waste Treatment, Bioremediation and Energy Production from 24-Jan-2010 to 27-Jan-2010.
57. Kanimozhi, R., and N. Vasudevan, "Integrated biological and chemical treatment of anaerobically digested distillery wastewater" presented in a International level conference on International Conference on Advanced Oxidation Techniques for Treatment of Water, Air and Soil, India from 15-Nov-2010 to 18-Nov-2010.
58. "Enhanced biodegradation of endosulfan and its major metabolite endosulfate by a biosurfactant producing bacterium" presented in a International level conference on 6th International Conference on Environmental Science and Technology, USA from 25-Jun-2012 to 29-Jun-2012.

59. Vasudevan, N. and P. Arulazhagan, "Degradation of polycyclic aromatic hydrocarbons in oil contaminated saline water by a halotolerant bacterial consortium" presented in a International level conference on 6th International Conference on Environmental Science and Technology, USA from 25-Jun-2012 to 29-Jun-2012.

Books Published

1. "Lignification in disease resistance.. "Perspectives in Mycological Research--Reference Book, Today and Tomorrow Publishers, New Delhi, India." and A. Mahadevan (1989)
2. "Essentials of Environmental Science" - 13th edition and published by Narosa Publishing House Pvt. Ltd., New Delhi.(2006)
3. "Advances in Industrial Wastewater Treatment" - 81th edition and published by Allied Publishers Pvt. Ltd., Chennai.(2006)

Current Sponsored Projects

1. "Degradation of chlorophenols by a moderately halophilic *Arthrobacter* sp", funded by University Grants Commission, New Delhi (June-2012 - June-2015). Project Cost: 8.00.

Sponsored Projects Completed

1. "Solubilization and Detoxification of polyaromatic hydrocarbons by *Pseudomonas* sp", funded by All India Council of Technical Education, New Delhi.
2. "Biotreatment of Polyaromatic hydrocarbons contaminated soil".
3. "Detoxification of chlorinated aromatic substances by a *Pseudomonas* sp. For bioremediation of contaminated soils", funded by Dept. of Science and Technology, Government of India, New Delhi.
4. "Location and cloning of crude oil degradation genes from a *Pseudomonas* sp. to a halophilic bacterium", funded by University Grants Commission, New Delhi.
5. "Studies on adsorption capacities and leaching behaviour of heavy metals in soils used for root zone treatment plant", funded by Ministry of Science and Technology, Government of India, New Delhi.
6. "Isolation and characterization of selected polyaromatic hydrocarbon utilizing bacterial strain from marine environment", funded by University Grants Commission, Government of India, New Delhi.
7. "Improvement of drinking water quality from surface water ponds by applying zero energy technologies", funded by Ministry of Rural Development, New Delhi .
8. "Bioremediation of petroleum oil sludge from CPCL", funded by CPCL, Chennai.

9. "Feasibility study of growing energy crops at municipal solid waste dumps from State Planning Commission TN".
10. "Development of ecofriendly and cost effective method for improving the quality of secondary treated domestic wastewater".
11. "Removal of phosphate from pond water".
12. "Tirupur Integrated Area Development Programme—Environmental Assessment".
13. "Detailed bacterial analysis of Cauvery river, Tirupur".
14. "Environmental Impact Assessment for Hyundai Car Project at Irrungattukotai, Tamil Nadu".
15. "Environmental Impact Assessment for drinking water supply at Hoeggenakal, Tamil Nadu".
16. "Environmental Impact Assessment of Manali Industrial Area for Incineration facility for Hazardous Waste Disposal".
17. "Design of Root Zone Treatment plant for treatment of domestic wastewater from maternity home at Shanthimalai trust, Tiruvannamalai".
18. "Environmental Impact Assessment of LAB plant at Tamil Nadu Petroproducts, Ltd.".
19. "Rapid Environmental Impact Assessment for GMR Vasavi Power Corporation, Chennai".
20. "Laboratory Design and Development for Indian Institute of Chemical Technology, Hyderabad".
21. "Treatability Studies of high TDS Process Water for M/s Noveon Diamalt P. Ltd., Chennai".
22. "Environmental Impact Assessment for the disposal of textile sludge in Tirupur".
23. "Scale up treatability studies of high TDS Process water for M/s Noveon Diamalt P. Ltd., Chennai".
24. "Final Scale up of treatability studies of high TDS process water for M/s Noveon Diamalt Pvt. Ltd., Chennai".
25. "Feasibility for the treatment of Produced water from Petroleum oil production facility, Rajahmundry, India".
26. "Pilot scale treatment of Ravva Produced water from Petroleum oil production facility, Rajahmundry, India".
27. "Treatability studies of Combined effluent of domestic and textile dyeing wastewater, TWAD Board, Tamilnadu".
28. "Comprehensive environmental impact assessment of M/s Shasun Chemicals and Drugs Ltd., Pondicherry".
29. "Characterization of drinking water from the city distribution system of CMWSSB".

30. "Tsunami Emergency Assistance Project, Tamilnadu—Renovation of Tanks, Dept of Rural Development".
31. "Environmental and Social Impact Assessment for Selected Habitation Projects in the Tsunami Affected Districts ".
32. "Characterization of STP sludge samples of CMWSSB ".
33. "Rapid Environmental Impact Assessment for Orchid Drugs and Chemicals ".
34. "Adyar Poonga Ecological Restoration Project (with Pichandikulam Forest Consultants) ".
35. "Analysis of Marine water ".
36. "Feasibility Studies on the Bioremediation of Contaminated Water bodies by Application of Effective Microorganisms".
37. "Characterization of drinking water from the Chennai city distribution system ".
38. "Ecological Monitoring of Adyar Poonga ".
39. "Rapid Environmental Impact Assessment for Government Medical College, Villupuram,TN ".
40. "Rapid Environmental Impact Assessment for Block II of Tamilnadu Legislative Assembly ".
41. "Impact of Flood carrier canal by interlinking Tamiraparani, Karumeniyar and Nambiar Rivers in Tamilnadu ".
42. "Preparation of DPR for the composting of Municipal Solid Waste for Madharavaram, Tamilnadu ".
43. "Environment Management Plan for IT Corridor, Chennai ".

Programme Chaired

1. Chairman, International level seminar.

Programme Organized

1. Organizer, National level seminar on "Trends in Environmental Education" from 13-Mar-2013.
2. Organizer, International level workshop on "Development and Demonstration of a Technology-based Business Concept" from 23-Sep-2013 to 26-Sep-2013.

Programme Attended

1. Participated in a International level conference on "Environmental Chemistry and Geochemistry in the Tropics" organized by Hong Kong Baptist University, Hong Kong from 24-Nov-1999 to 27-Nov-1999.

Honours

1. "DST Young Scientist Project Award" given by DST from India.
2. "UNESCO Fellowship Award " given by University of Maryland from USA.
3. "BOYSCAST Young Scientist Fellowship Award of Government of India" given by Gesellschaft fur Biotechnologische Forschung from Germany.
4. "Hiyoshi Think of Ecology Award " given by Hiyoshi Corporation from Japan (2010).
5. "Active Consultant Award " given by Anna University, Chennai from India (2011).

Patents

1. Having a patent for "A Process for the Biological Treatment of an Industrial Effluent (High TDS wastewater)". Patent number:237603

Patents Filed

1. Filed patent rights for Method for the biodegradation of polycyclic aroFile number: 460
2. Filed patent rights for A Process for the treatment of anaerobically digesFile number: 587
3. Filed patent rights for A Biofilm support for the treatment of wastewater File number: 711
4. Filed patent rights for A method for the biodegradation of chlorophenolic File number: 1164
5. Filed patent rights for Anaerobic treatment of aquaculture wastewater for File number: 1645

Experience Abroad

1. Visited Indo-German Project-GTZ, Germany . Purpose of visit :Workshop on Facilitation of Learning: Teaching skills, training and facilitation skills.
2. Visited Laboratoire de Biotechnologie de L'Environnement (INRA), Narbonne, France . Purpose of visit :Visit for conducting the Viva-voce .
3. Visited GBF,Germany under the BOYSCAST Fellowship, Germany from 05-Mar-1994 to 04-Sep-1994. Purpose of visit :Research work on Characterization of Biosurfactant, Genetic Analysis, MEOR Applications.
4. Visited Geselchaft fuer Biotechnologische Forschung (GBF), Germany from 05-Sep-1994 to 21-Oct-1994. Purpose of visit :ITP Course on Industrial Biotechnology, High Cell Density cultivation of bacteria.
5. Visited University of Maryland, USA from 31-Jul-1995 to 30-Sep-1995. Purpose of visit :Research work on Diversity of Environmental Vibrios, DNA Fingerprinting.

6. Visited Indo-German Project-GTZ, Germany from 04-May-1998 to 04-Jul-1998. Purpose of visit :Research work on Soil and Ground water remediation processes.
7. Visited DST-DAAD Sandwich programme , Germany from 07-Apr-2003 to 21-Apr-2003. Purpose of visit :Visit to the University of Applied Sciences.
8. Visited ICGEB, Italy from 14-Jun-2014 to 17-Dec-1992. Purpose of visit :ICGEB-UNIDO course on Applications of Genetically Modified Organisms.

Invited Lectures

1. Delivered a Lecture on "Feasibility studies on the impact of bioremediation process in contaminated urban lake environments" in 12th World Lake Conference, Jaipur.
2. Delivered a Lecture on "Reusability of constructed wetland system for its efficiency in treating metal contaminated wastewater" in 48th Annual Conference of the Association of Microbiologists of India, New Delhi.
3. Delivered a Lecture on "Environmental Pollution –An Overview" in Treatment of Water and Wastewater organized by Periyar Maniammai College of Technology for Women, Thanjavur.
4. Delivered a Lecture on "Surface bioremediation of soils and sludge" in Treatment of Water and Wastewater organized by Periyar Maniammai College of Technology for Women, Thanjavur.
5. Delivered a Lecture on "Pollution Microbial destruction of environmental pollutants " in Academic Staff College Refresher Course in Environmental Sciences organized by Bharathiar University, Coimbatore.
6. Delivered a Lecture on "Wetlands for wastewater treatment " in Academic Staff College Refresher Course in Environmental Sciences organized by Bharathiar University, Coimbatore.
7. Delivered a Lecture on "Constructed wetland system in the treatment of contaminated water for reuse" in World Lake Conference, Jaipur.
8. Delivered a Lecture on "Role of constructed wetland system in domestic wastewater treatment" organized by Department of Bioremediation Research,Umwelt Forsc, Germany.
9. Delivered a Lecture on "Biological treatment of industrial wastewater " organized by University of Kaiserslautern, Germany.
10. Delivered a Lecture on "Alternative wastewater treatment options" in Sewage Treatment Plant Design organized by CPHEEO, New Delhi.
11. Delivered a Lecture on "Biotreatment of Petroleum oil sludge contaminated soil" in International Conference on Environmental Chemistry and Geochemistry in the Tropics, Thailand (25-Nov-1993).
12. Delivered a Lecture on "Microbes and their Applications" in workshop on Visions and Revisions in Biology organized by Womens Christian College, Madras (10-Mar-1995).

13. Delivered a Lecture on "The Role of Biotechnology in Environmental Pollution" organized by Botany Association of Pachaiyappa's College, Madras (15-Mar-1995).
14. Delivered a Lecture on "Industrial Pollution and its Control" organized by Pondicherry University, Pondicherry (29-Mar-1995).
15. Delivered a Lecture on "Applications of Biosurfactant" organized by Biopract GmbH, Germany (12-May-1998).
16. Delivered a Lecture on "Biotechnology for Safe Environment" in Biotechnology-Emerging Trends and Commercial Prospects organized by Quaid Millath Govt. College for Women, Chennai (27-Oct-1998).
17. Delivered a Lecture on "Microbial detoxification and remediation of petroleum contamination" in Bioremediation of Polluted Habitats organized by Tamilnadu Agricultural University, Coimbatore (22-Mar-1999).
18. Delivered a Lecture on "Microbiological aspects of domestic wastewater " in Sewage Treatment Plant Design organized by Anna University, Chennai (13-Apr-1999).
19. Delivered a Lecture on "Treatment of domestic sewage by Root zone treatment system " in Reed Bed Technology organized by Anna University, Chennai (18-May-1999).
20. Delivered a Lecture on "Treatment of Concentrated Textile Wastewaters with Haophilic Microorganisms" organized by Technical University, Hamburg-Harburg, Germany (06-Sep-2000).
21. Delivered a Lecture on "Biological and Biotechnological Approach to Hazardous Waste Management" in National Seminar on Hazardous Waste Management organized by National Safety Council, Mumbai (11-Apr-2001).
22. Delivered a Lecture on "Microbial Ecology of the Ocean and Fresh water and petrochemical and paper chemical pollution abatement" organized by College of Biomedical Science & Technology Researc, Chennai (22-May-2001).
23. Delivered a Lecture on "Bioremediation-Recent Developments" organized by CFTRI, Mysore (17-May-2002).
24. Delivered a Lecture on "Current Trends in Bioremediation" organized by Asan Memorial College of Arts & Science, Chennai (11-Sep-2002).
25. Delivered a Lecture on "Environmental Pollution" An Over view" in Futuristics in Pollution Abatement organized by St. Josephs College of Engineering, Chennai (26-Feb-2003).
26. Delivered a Lecture on "Wetlands for Wastewater Treatment" in Futuristics in Pollution Abatement organized by St. Joseph's College of Engineering, Chennai (26-Feb-2003).
27. Delivered a Lecture on "Zero Discharge in Industry" in Enviro 2003 organized by Confederation of Indian Industry, Chennai (03-Dec-2003).
28. Delivered a Lecture on "Treatment of high TDS industrial wastewater towards zero discharge and reuse" organized by INRA, France (14-Dec-2005).

29. Delivered a Lecture on "Treatment of Crocodile pond wastewater using constructed wetland system" in Current Perspectives in Aquatic Biology organized by University of Madras, Madras (18-Mar-2006).
30. Delivered a Lecture on "Degradation of polyaromatic hydrocarbons by a halophilic bacterium" in International Symposium on Environmental biotechnology organized by Leipzig University, Germany (13-Jul-2006).
31. Delivered a Lecture on "Mineralization of anthracene by *Sphingomonas xenophaga* BA2 in the presence of solubility modifying compounds" in International Symposium on Environmental biotechnology organized by Leipzig University, Germany (13-Jul-2006).
32. Delivered a Lecture on "Treatment of concentrated textile wastewater with screened halophilic microorganisms" in 3rd Annual International Exhibition, Conference and Film Festival, New Delhi (18-Apr-2012).
33. Delivered a Lecture on "Biosurfactants and their potential applications" organized by University of Missouri-Columbia, USA (04-Jun-2014).
34. Delivered a Lecture on "Aerobic biodegradation of phenolic compounds under hypersaline environment" in Annual Conference of the Association of Microbiologists of India, New Delhi (18-Nov-2014).