

DR. NIDHEESH P.V.

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CSIR-NATIONAL ENVIRONMENTAL ENGINEERING
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EDUCATION

Degree/ Examination	Year of Passing	School/Institute	Board/University	Percentage / Grade
Ph. D.	2014	National Institute of Technology, Trichy	National Institute of Technology, Trichy	-
M.Tech. (Environmental Engineering)	2011	National Institute of Technology, Trichy	National Institute of Technology, Trichy	9.73
B.Tech. (Civil Engineering)	2008	Govt. College of Engineering Kannur	Kannur University	76.06
Class XII	2004	St Mary's HSS Edoor	Kerala State Board	87.83
Class X	2002	St Joseph's H S Kunnoth	Kerala State Board	88.5

ACADEMIC ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES

1. Received "Early Career Research Award" from Science and Engineering Research Board (SERB) in 2017.
2. M.Tech. Environmental Engineering Gold Medalist.
3. "Outstanding Student 2011" of NIT Trichy Environmental Engineering branch.
4. At first position among the Indian researchers working in the field of electro-Fenton process and at 35th position in the world (As per web of knowledge report).
5. h index: 20 (Google Scholar, Total citations 1493); 16 (Scopus; 1044 total citations by 718 documents); on April 2018.
6. "Outstanding Reviewer 2016" of Journal of Environmental Chemical Engineering, Elsevier Publication.
7. Outstanding Reviewer 2017" Chemosphere, Elsevier Publication.
8. "Outstanding Reviewer 2017" Chemical Engineering Journal, Elsevier Publication.
9. "Outstanding Reviewer 2017" Journal of Molecular Liquids, Elsevier Publication.
10. "Outstanding Reviewer 2017" Journal of Hazardous Materials, Elsevier Publication.

11. "Outstanding Reviewer 2017" Journal of Industrial and Engineering Chemistry, Elsevier Publication.
12. "Outstanding Reviewer 2017" Journal of CO₂ Utilization, Elsevier Publication.
13. "Outstanding Reviewer 2017" Journal of Institute of Taiwan Chemical Engineers, Elsevier Publication.
14. "Outstanding Reviewer 2018" Separation and Purification Technology, Elsevier Publication. Elsevier Publication.
15. Guest Editor of the special issue entitled "Electrochemical Advanced Oxidation Processes for the Abatement of Persistent Organic Pollutants" in Chemosphere (Elsevier Publications; Science Citation Indexed; Impact Factor 4.208). Dr. Mehmet A. Oturan, Université Paris-Est, France; and Dr. Minghua Zhou, Nankai University, China are other editors.
16. Academic editor of 'Advances in Research'
17. Editorial Board Member of 'International Journal of Emerging Technology and Advanced Engineering'
18. "Trends in electro-Fenton process for water and wastewater treatment: an overview" is in the top five (4th position) highly downloaded articles in Desalination Journal on the first half of 2013 and in 14th position of 25 most popular articles in first half of 2013 from Elsevier publishing journal in Membranes and Separation technology.
19. "Degradation of dyes from aqueous solution by Fenton processes: a review" is one of the 'Top Cited Articles Published in 2013' Environmental Science and Pollution Research Journal.
20. "Magnetite as a heterogeneous electro Fenton catalyst for the removal of Rhodamine B from aqueous solution" is one of the 'Top Cited Articles' in General Chemistry portfolio of RSC journals.
21. Best paper award for the article "Graphite-Graphite Electro Fenton Process for Dye Removal: Advantages, Implementation Problems and Remedial Solutions" in National Conference on Furthering Aspirations in Civil Engineering Techniques held at Government College of Engineering Kannur during 26 – 27 June 2014.
22. Reviewer of Scientific Reports (Nature), RSC Advances, Royal Society Open Science (RSC), ACS Sustainable Chemistry & Engineering, ACS Applied Materials and Interfaces (ACS), Chemosphere, Catalysis Today, Journal of Environmental Chemical Engineering, Arabian Journal of Chemistry, Journal of the Taiwan Institute of Chemical Engineers, Chemical Engineering Journal, Separation and Purification Technology, Journal of Industrial and Engineering Chemistry, Sustainable Environment Research, Journal of Carbon Dioxide Utilization, Applied Catalysis B: Environmental, Environmental Technology and Innovations, Materials and Design, Journal of Molecular Liquids, Journal of Hazardous Materials, Journal of Physics and Chemistry of Solids, International Journal of Hydrogen Energy, Dyes and Pigments, Journal of Environmental Management, Journal of Electroanalytical Chemistry, Water Research, Environment International, Waste Management, Science of Total Environment, Sustainable Environment Research, Journal of Cleaner Production (Elsevier

Publication), Environmental Progress and Sustainable Energy, Clean Soil, Air and Water, Journal of Chemical Technology and Biotechnology (Wiley Publication), Environmental Chemistry Letters, Environmental Science and Pollution Research, Chemical Papers, Journal of Inorganic and Organometallic Polymers and Materials, Environmental Processes, Water Soil Air Pollution, Journal of Industrial Chemistry, Arabian Journal for Science and Engineering, Environment, Development and Sustainability, Applied Water Science (Springer), Desalination and Water Treatment, Separation Science and Technology, Environmental Technology, Chemical Engineering Communications (Taylor and Francis), Journal of Water and Health, Water Science and Technology (IWA), Environmental Engineering Science, Journal of Advanced Oxidation Technologies, Journal of Environmental Engineering and Science, Chemical Industry & Chemical Engineering Quarterly, Journal of Environmental Engineering and Science, Korean Chemical Engineering Research, Journal of Testing and Evaluation, African Journal Of Environmental Science And Technology, Advances in Civil Engineering Materials, British Journal of Applied Science & Technology and Basic Research Journal of Soil and Environmental Science, International Journal of Environmental Pollution and Remediation.

PUBLICATIONS IN JOURNALS

Based on Ph. D. Thesis

1. **P. V. Nidheesh**, R. Gandhimathi (2012). Trends in electro-Fenton process for water and wastewater treatment: An overview. *Desalination*, 299:1–15 (Impact factor:2.59; SCI; Highly Downloaded Article).
2. **P. V. Nidheesh**, R. Gandhimathi, S. T. Ramesh (2013). Degradation of dyes from aqueous solution by Fenton processes: A review. *Environmental Science and Pollution Research*, 20:2099–2132. (Impact factor:2.65; SCI+SCI Expanded, Top Cited Article).
3. **P. V. Nidheesh**, R. Gandhimathi, S. Velmathi, N. S. Sanjini (2014). Magnetite as a heterogeneous electro Fenton catalyst for the removal of Rhodamine B from aqueous solution. *RSC Advances*, 4:5698-5708. (Impact factor:2.59; SCI Expanded, Top Cited Article).
4. **P. V. Nidheesh**, R. Gatndhimahi (2014). Removal of rhodamine B from aqueous solution using graphite- graphite electro Fenton system. *Desalination and Water Treatment*, 52:1872–1877. (Impact factor:0.85; SCI Expanded)
5. **P. V. Nidheesh**, R. Gandhimathi (2014). Comparative removal of rhodamine B from aqueous solution by electro Fenton and electro Fenton like processes. *Clean- Soil, Air, Water*. 42 (6): 779-784. (Impact factor:2.046; SCI+SCI Expanded).

6. **P. V. Nidheesh**, R. Gandhimathi (2014). Electrolytic removal of Rhodamine B from aqueous solution by peroxicoagulation process. *Environmental Science and Pollution Research*, 21:8585–8594 (Impact factor:2.65; SCI+SCI Expanded).
7. **P. V. Nidheesh**, R. Gandhimathi (2014). Effect of solution pH on the performance of three electrolytic advanced oxidation processes for the treatment of textile wastewater and sludge characteristics. *RSC Advances*, 4: 27946–27954 (Impact factor:2.59; SCI Expanded).
8. **P. V. Nidheesh**, R. Gandhimathi, N. S. Sanjini (2014). NaHCO₃ enhanced Rhodamine B removal from aqueous solution by graphite-graphite electro Fenton system. *Separation and Purification Technology*, 132: 568–576. (Impact Factor 2.89, SCI Expanded)
9. **P. V. Nidheesh**, R. Gandhimathi (2015) Electro Fenton oxidation for the removal of Rhodamine B from aqueous solution in a bubble column reactor under continuous mode. *Desalination and Water Treatment*. 55:263–271 (Impact factor:0.98; SCI Expanded)
10. **P. V. Nidheesh**, R. Gandhimathi (2015) Textile Wastewater Treatment by Electro-Fenton Process in Batch and Continuous Modes. *Journal of Hazardous, Toxic, and Radioactive Waste ASCE*. 19(3): 04014038.

Based on M. Tech. Thesis

11. **P. V. Nidheesh**, R. Gandhimathi, S. T. Ramesh, T. S. Anantha Singh (2011). Investigation of equilibrium and thermodynamic parameters of crystal violet adsorption onto bottom ash. *Journal of International Environmental Application & Science*, 6(4):461-470.
12. **P. V. Nidheesh**, R. Gandhimathi, S. T. Ramesh, T. S. Anantha Singh (2012). Adsorption - desorption characteristics and mechanism of crystal violet in bottom ash column. *Journal of Urban and Environmental Engineering*, 6(1):18-29.
13. **P. V. Nidheesh**, R. Gandhimathi, S. T. Ramesh, T. S. Anantha Singh (2012). Kinetic analysis of crystal violet adsorption on to bottom ash. *Turkish Journal of Engineering and Environmental Sciences*. 36:249-262.
14. **P. V. Nidheesh**, R. Gandhimathi, S. T. Ramesh, T. S. Anantha Singh (2013). Modeling of crystal violet adsorption on bottom ash column. *Water Environment Research*, 85(6):495-502. (Impact factor:0.89; SCI+SCI Expanded).

Others

15. S. T. Ramesh. R. Gandhimathi, **P. V. Nidheesh**, Nagendra Badabhagn, K. S. Bharathi (2011). Breakthrough data analysis of adsorption of Cd (II) on coir pith column. *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 10(7):2487-2505.
16. S.T. Ramesh, R. Gandhimathi, N. Badabhagn, **P.V. Nidheesh** (2011). Removal of Cd (II) from aqueous solution by adsorption onto coir pith, an agricultural solid waste: batch

- experimental study. *Environmental Engineering and Management Journal*, 10(11):1667-1673 (Impact factor:1.435; SCI Expanded).
17. R. Gandhimathi, S. T. Ramesh, V. Sindhu, **P. V. Nidheesh** (2012). Single and tertiary system dye removal from colored textile wastewater using bottom ash: kinetic and isotherm studies. *Iranica Journal of Energy and Environment (IJEE)*, 3(1):52-62.
 18. S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**, Manoj Taywade (2012). Batch and column operations for the removal of fluoride from aqueous solution using bottom ash. *Environmental Research, Engineering and Management*, 2(60):12-20.
 19. Koel Banerjee, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh** (2012). A novel agricultural waste adsorbent, watermelon shell for the removal of copper from aqueous solutions. *Iranica Journal of Energy and Environment*, 3(2):143-156.
 20. R. Gandhimathi, S.T. Ramesh, J. Hamoneth Josen, **P.V. Nidheesh** (2012). Equilibrium, kinetics and breakthrough studies for adsorption of copper onto low cost biosorbent 'cyperus rotundus'. *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11(6):638-648.
 21. S. T. Ramesh, N. Rameshbabu, R. Gandhimathi, **P. V. Nidheesh**, M. Srikanth Kumar (2012). Kinetics and equilibrium studies for the removal of heavy metals in both single and binary systems using hydroxyapatite. *Applied Water Science*, 2:187-197.
 22. S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**, P. Satyanarayana Rao (2012). Treatment of wastewater using geotextile baffles attached with biomass. *International Journal of Research in Chemistry and Environment*, 2(3):88-94.
 23. R. Gandhimathi, S. T. Ramesh, V.M. Arun, **P. V. Nidheesh** (2013). Biosorption of Cu (II) and Zn (II) ions from aqueous solution by water hyacinth (Eichhornia Crassipes). *International Journal of Environmental Waste Management*, 11(4):365-386.
 24. S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**, S. Rajakumar, S. Prateepkumar (2013). Use of furnace slag and welding slag as a replacement for sand in concrete. *International Journal of Energy and Environment*, 4:3.
 25. S. T. Ramesh, R. Gandhimathi, J. Hamoneth Josen, **P.V. Nidheesh** (2013). A novel agricultural waste adsorbent, cyperus rotundus for the removal of heavy metal mixtures from aqueous solutions. *Environmental Engineering Science*, 30(2):74-81(Impact factor:0.877; SCI+SCI Expanded).
 26. S. T. Ramesh, N. Rameshbabu, R. Gandhimathi, M. Srikanth Kumar, **P. V. Nidheesh** (2013). Removal of lead from aqueous solution using nano-sized hydroxyapatite. *Applied water science*, 3:105-113.
 27. R. Gandhimathi, N. Jegan Durai, **P. V. Nidheesh**, S. T. Ramesh, S. Kanmani (2013). Combination of coagulation and adsorption processes for treatment of landfill leachate. *Iranian Journal of Environmental Health Science Engineering*, 10:24 (Impact factor:1.18; SCI Expanded).

28. R. Gandhimathi, S. T. Ramesh, V. Sindhu, **P. V. Nidheesh** (2013). Equilibrium and kinetic study of basic dyes adsorption from aqueous solution by bottom ash in binary system. *Songklanakarin Journal of Science and Technology*, 35(3):339-347.
29. S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**, G. Praveen kumar (2013). Chemical oxygen demand (COD) removal from domestic wastewater using fortified soil-clay. *Pollution Research*, 32(2):239-244.
30. C. K. Geethamani, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh** (2013). Fluoride sorption by treated fly ash: kinetic and isotherm studies. *Journal of Material Cycles and Waste Management*, 15:381–392. (Impact factor:0.568; SCI Expanded).
31. B. Shathika Sulthana Begum, R. Gandhimathi, S. T. Ramesh, **P.V. Nidheesh** (2013). Utilization of textile effluent wastewater treatment plant sludge as brick material. *Journal of Material Cycles and Waste Management*, 15(4):564-570. (Impact factor:0.568; SCI Expanded)
32. Stephy Jacqueline George, R. Gandhimathi, **P. V. Nidheesh**, S. T. Ramesh (2013). Oxidation of Salicylic Acid from Aqueous Solution with Continuous Stirred Tank Reactor by Electro-Fenton Method. *Environmental Engineering Science*, 30(12):750-756. (Impact factor:1.15; SCI+SCI Expanded).
33. S. T. Ramesh, R. Gandhimathi, T. E. Elavarasi, R. Isai Thamizh, K. Sowmya, **P. V. Nidheesh** (2014). Comparison of methylene blue adsorption from aqueous solution using spent tea dust and raw coir pith. *Global Nest*, 16(1):146-159. (SCI Expanded)
34. R. Gandhimathi, S. T. Ramesh, V. Sindhu, **P. V. Nidheesh** (2014). Removal characteristics of basic dyes from aqueous solution by fly ash in single and tertiary system. *Journal of Scientific and Industrial Research*, 73:267-272. (Impact factor:0.568; SCI Expanded)
35. Devika Venu, R. Gandhimathi, **P. V. Nidheesh**, S. T. Ramesh (2014). Treatment of stabilized landfill leachate using peroxicoagulation process. *Separation and Purification Technology*, 129:64–70. (Impact factor:2.85, SCI Expanded).
36. A. R. Laiju, T. Sivasankar, **P. V. Nidheesh** (2014). Iron loaded Mangosteen as a Heterogeneous Fenton catalyst for the Treatment of Landfill Leachate. *Environmental Science and Pollution Research*, 21:10900–10907. (Impact factor:2.65; SCI+SCI Expanded).
37. C. K. Geethamani, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh** (2014). Alkali- treated fly ash for the removal of fluoride from aqueous solutions. *Desalination and Water Treatment*, 52: 3466–3476. (Impact factor:0.85; SCI Expanded)
38. Stephy Jacqueline George, R. Gandhimathi, **P. V. Nidheesh**, S.T. Ramesh. (2014) Electro Fenton oxidation of salicylic acid from aqueous solution: Batch studies and degradation

pathway. *Clean- Soil, Air, Water*. 42(12):1701-1711. (Impact factor:2.046; SCI+SCI Expanded).

39. Shilpa Xavier, R. Gandhimathi, **P. V. Nidheesh**, S.T. Ramesh. (2015) Comparison of homogeneous and heterogeneous Fenton processes for the removal of reactive dye magenta MB from aqueous solution. *Desalination and Water Treatment*, 53: 109–118 (Impact factor:0.98; SCI Expanded).
40. **P. V. Nidheesh** (2015) Heterogeneous Fenton Catalysts for the Abatement of Organic Pollutants from Aqueous Solution: A Review. *RSC Advances*, 5: 40552–40577. (Impact factor:3.7; SCI Expanded)
41. Shuvee Neupane, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**. (2015) Pineapple leaf (*ananas comosus*) powder as a biosorbent for the removal of crystal violet from aqueous solution. *Desalination and Water Treatment*. 54:2041–2054 (Impact factor:0.98; SCI Expanded)
42. R. Gandhimathi, Albin Babu, **P. V. Nidheesh**, S. T. Ramesh, T. S. Anantha Singh (2015) A Laboratory Study on Leachate Treatment by Electrocoagulation using Fly Ash and Bottom Ash as Supporting Electrolytes. *Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)*. 19(3):04014033.
43. J. T. Krupa, R. Gandhimathi, S. T. Ramesh, **P. V. Nidheesh**, T. S. Anantha Singh. (2015). Investigation of biobarrier for leachate containment through batch and continuous flow studies. *Journal of Environmental Engineering*. 10.1061/(ASCE)EE.1943-7870.0000978, C4015006.
44. **P. V. Nidheesh**, Raman Rajan (2016) Removal of rhodamine B from water medium using hydroxyl and sulphate radicals generated by the iron loaded activated carbon. *RSC Advances* 6:5330-5340. (Impact factor:3.84; SCI Expanded)
45. P. Aswathy, R. Gandhimathi, S. T. Ramesh, **P. V. Nidheesh**, (2016) Removal of organics from bilge water by batch electrocoagulation process. *Separation and Purification Technology*, 159:108-115. (Impact factor:2.85, SCI Expanded).
46. Stephy Jacqueline George, R. Gandhimathi, **P. V. Nidheesh**, S. T. Ramesh (2016). Optimization of Salicylic Acid Removal by Electro Fenton Process in a Continuous Stirred Tank Reactor Using Response Surface Methodology. *Desalination and Water Treatment*, 57: 4234–4244 (Impact factor:0.98; SCI Expanded)
47. K. Sarath, R. Gandhimathi, S. T. Ramesh, **P. V. Nidheesh** (2016). Removal of Reactive Magenta-MB from aqueous solution by Persulphate Based Advanced Oxidation Process. *Desalination and Water Treatment*, 57: 11872–11878 (Impact factor:0.98; SCI Expanded)
48. Shilpa Xavier, R. Gandhimathi, **P. V. Nidheesh**, S.T. Ramesh (2016). Comparative removal of Magenta MB from aqueous solution by homogeneous and heterogeneous photo-Fenton

- processes. *Desalination and Water Treatment*, 57: 12832–12841 (Impact factor:0.98; SCI Expanded)
49. Devika Venu, R. Gandhimathi, **P. V. Nidheesh**, S. T. Ramesh, (2016) Effect of solution pH on leachate treatment mechanism of peroxicoagulation process. *Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)*. 20 (3): 06016001
 50. Chithira Venu, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**, (2016) Investigation on the working performance of partitionable space enhanced coagulation reactor. *Separation Science and Technology*, 51(7): 1220–1226 (Impact factor: 1.17; SCI Expanded)
 51. S.T. Ramesh, R. Gandhimathi, J. Hamoneth Joesun, **P.V. Nidheesh**, (2016). Low Cost Biosorbent 'Cyperus Rotundus' for Removal of Cu(II) and Zn(II) from Aqueous Solution with Acid and Alkali Treatments: Kinetic and Equilibrium Studies. *Advanced Porous Materials*, 4: 46-53.
 52. T. T. Asha, R. Gandhimathi, S. T. Ramesh, **P. V. Nidheesh**, (2016). Treatment of Stabilized Leachate by Ferrous Activated Persulfate Oxidative System. *Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)*. 21, 10.1061/(ASCE)HZ.2153-5515.0000328 , 04016012
 53. S. Sowmiya, R, Gandhimathi, S. T. Ramesh, **P. V. Nidheesh**, (2016). Granular activated carbon as a particle electrode in three dimensional electrochemical treatment of Reactive Black B from aqueous solution. *Environmental Progress and Sustainable Energy*. 35(6):1616-1622. (Impact factor:1.63; SCI)
 54. **P. V. Nidheesh**, Praveen Thomas, Kishore A Nair, Jones Joju, P. Aswathy, R. Jinisha, George K Varghese, R. Gandhimathi, (2017) Potential use of Hibiscus rosa-sinensis leaf extract for the destabilization of turbid water. *Soil Air and Water pollution* 228:51 (Impact factor:1.51; SCI+SCI Expanded)
 55. **P. V. Nidheesh**, T. S. Anantha Singh, (2017) Arsenic removal by electrocoagulation process: Recent trends and removal mechanism. *Chemosphere* 181:418-432. (Impact factor:4.2; SCI)
 56. Vandana Sreedharan, K. V. Krithishna, **P. V. Nidheesh**, (2017) Removal of chromium and iron from real textile wastewater by sorption on soils. *Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)* 21(4): 06017002
 57. P. S. Roshini, R. Gandhimathi, S. T. Ramesh, **P. V. Nidheesh**, (2017) Combined electro-Fenton and biological processes for the treatment of industrial textile effluent: Mineralization and toxicity analysis. *Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)* 21(4): 04017016
 58. S. Dhivya, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh** (2017) Performance of natural coagulant extracted from *Plantago ovata* seed for the treatment of turbid water. *Soil Air and Water pollution* 228:423 (Impact factor:1.7; SCI+SCI Expanded)

59. **P. V. Nidheesh** (2017) Graphene based materials supported advanced oxidation processes for water and wastewater treatment: A review. *Environmental Science and Pollution Research*, 24:27047–27069 (Impact factor:2.74; SCI+SCI Expanded)
60. S. Seenamitra, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**. (2017) Studies on the Removal of Phosphate from Water by Electrocoagulation with Aluminium Plate Electrodes. *Environmental Engineering and Management Journal*, 16: 2293-2301. (Impact factor:1.26; SCI Expanded)
61. Archa Baiju, R. Gandhimathi, S.T. Ramesh, **P.V. Nidheesh**, (2018) Combined heterogeneous Electro-Fenton and biological process for the treatment of stabilized landfill leachate. *Journal of Environmental Management*, 210:328-337. (Impact factor:4.0; SCI+SCI Expanded)
62. **P. V. Nidheesh**, M. Zhou, M. A. Oturan, (2018) An overview on the removal of synthetic dyes from water by electrochemical advanced oxidation processes. *Chemosphere* 197: 210-227. (Impact factor:4.2; SCI)
63. R. Jinisha, R. Gandhimathi, S. T. Ramesh, **P. V. Nidheesh**, S. Velmathi, (2018) Removal of Rhodamine B dye from aqueous solution by electro-Fenton process using iron-doped mesoporous silica as a heterogeneous catalyst. *Chemosphere* 200: 446-454. (Impact factor:4.2; SCI)
64. **P. V. Nidheesh**, Jayraj Khatri, T. S. Anantha Singh, R. Gandhimathi, S. T. Ramesh, (2018) Review of zero-valent aluminium based water and wastewater treatment methods. *Chemosphere* 200: 621-631. (Impact factor:4.2; SCI)
65. Jayraj Khatri, **P. V. Nidheesh**, T. S. Anantha Singh, M. Suresh Kumar, (2018). Advanced oxidation processes based on zero-valent aluminium for treating textile wastewater. *Chemical Engineering Journal* 348: 67-73 (Impact factor:6.21)
66. Abhijeet Kumar, **P.V. Nidheesh**, M. Suresh Kumar, (2018). Composite wastewater treatment by aerated electrocoagulation and modified peroxi-coagulation processes. *Chemosphere* 205: 587-593. (Impact factor:4.2; SCI)
67. M. A. Oturan, **P. V. Nidheesh**, M. Zhou (2018). Electrochemical advanced oxidation processes for the abatement of persistent organic pollutants. *Chemosphere* 209: 17-19. (**Editorial**; Impact factor:4.2; SCI)
68. T. Sruthi, R. Gandhimathi, S. T. Rameesh, **P. V. Nidheesh** (2018). Stabilized landfill leachate treatment using heterogeneous Fenton and electro-Fenton processes. *Chemosphere* 210: 38-43. (Impact factor:4.2; SCI).
69. **P.V. Nidheesh** (2018). Removal of Organic Pollutants using Peroxicoagulation Process. *Environmental Chemistry Letters* 16:1283–1292. (Impact factor:3.125; SCI Expanded).

70. K. K. Rubeena, P. Hari Prasad Reddy, A. R. Laiju, **P. V. Nidheesh** (2018). Iron impregnated biochars as heterogeneous Fenton catalyst for the degradation of Acid Red 1 dye. *Journal of Environmental Management* 226: 320–328. (Impact factor:4.0; SCI+SCI Expanded)
71. **P. V. Nidheesh**, G. Divyapriya, Nihal Oturan, Clément Trellu, Mehmet A. Oturan, (2019). Environmental Applications of Boron-Doped Diamond Electrodes: 1. Applications in Water and Wastewater Treatment. *ChemElectroChem* 6: 2124-2142. (Impact factor:4.446; SCI Expanded)
72. Clément Trellu, Shampa Chakraborty, **P. V. Nidheesh**, Mehmet A. Oturan, (2019). Environmental Applications of Boron-Doped Diamond Electrodes: 2. Soil Remediation and Sensing Applications. *ChemElectroChem* 6: 2143-2156. (Impact factor:4.446; SCI Expanded)
73. **P.V. Nidheesh**, M. Suresh Kumar, (2019). An overview of environmental sustainability in cement and steel production. *Journal of Cleaner Production* 231: 856-871. (Impact factor:5.561; SCI Expanded)
74. D. Syam Babu, Vartika Srivastava, **P. V. Nidheesh**, M. Suresh Kumar, (2019). Detoxification of water and wastewater by advanced oxidation processes. *Science of the Total Environment*, 696:133961. (Impact factor:5.589)
75. Amishi Popat, **P. V. Nidheesh**, T. S. Anantha Singh, M. Suresh Kumar, (2019). Mixed industrial wastewater treatment by combined electrochemical advanced oxidation and biological processes. *Chemosphere* 237: 124419. (Impact factor:5.1; SCI)
76. T. Sravanth, S.T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**, Continuous treatability of oily wastewater from locomotive wash facilities by electrocoagulation. *Separation Science and Technology* (In press)
77. Preethi Vijayaraghavan, S. T. Ramesh, R. Gandhimathi, **P. V. Nidheesh**, Optimization of batch electrocoagulation process using Box-Behnken experimental design for the treatment of crude vegetable oil refinery wastewater. *Journal of Dispersion Science and Technology* (In press)
78. Randeep Singh, **P.V. Nidheesh**, T. Sivasankar, Integrating Ultrasound with Activated Carbon prepared from Mangosteen Fruit Peel Waste Material for Effective Removal of Reactive Black 5 dye. *Environmental Engineering and Management Journal*
79. Alphonsa C. Joy, R. Gandhimathi, S.V. Niveditha, S. T. Ramesh, **P. V. Nidheesh**, Photoelectro-peroxone process for the degradation of reactive azo dye in aqueous solution. *Separation Science and Technology* (In press)
80. James Johnin, **P. V. Nidheesh**, T. Sivasankar, Sono-electro-chemical Treatment of Reactive Black 5 Dye and Real Textile Effluent using MnSO₄/Na₂S₂O₈ electrolytes. *Arabian Journal for Science and Engineering*

81. S. Jayashree, S.T. Ramesh, A. Lavanya, R. Gandhimathi, **P. V. Nidheesh**, Wastewater Treatment by Microbial Fuel Cell Coupled with Peroxycogulation Process. Clean Technologies and Environmental Policy

CONFERENCES

I. Organized

- National conference on "Innovations in Civil Engineering" on 22.04.2016 at Vimal Jyothi Engineering College, Chemperi, Kannur, Kerala

II. Participated - International Conferences

1. **P. V. Nidheesh**, R. Gandhimathi. Fixed Bed Column Study for the Removal of Crystal Violet from Aqueous Solution by Bottom Ash. *International Conference on Sustainable Water Resource Management and Treatment Technologies*, NEERI Nagpur, January 2011.
2. **P. V. Nidheesh**, R. Gandhimathi and S. T. Ramesh. Use of Yoon Nelson and Mass Transfer Model for Prediction of Crystal Violet Adsorption Efficiency of Bottom Ash in Fixed-Bed System. *International Conference on Mathematical Modelling and Applications to Industrial Problems -MMIP 2011*, NIT Calicut, March 2011.
3. **P.V. Nidheesh**, R. Gandhimathi Removal of Rhodamine B from Aqueous Solution by Electro-Fenton Process. 2nd International Conference on Advanced Oxidation Processes, School of Environmental Studies, M.G. University Kottayam, October 2012.

III. Participated -National Conferences

1. **P. V. Nidheesh**, R. Gandhimathi, S. T. Ramesh. Use of Mass Transfer Model for Prediction of Crystal Violet Adsorption Efficiency of Bottom Ash in Fixed-Bed System. *National Conference on Biological Wastewater Treatment towards Green Environment - BWTGE2011*, NIT Calicut, January 2011.
2. **P. V. Nidheesh**, R. Gandhimathi. Reichenberg Analysis of Crystal Violet Adsorption on to Bottom Ash. *National Conference on Emerging Technologies 2011(NACET'11)*, Anna University Tirunelveli, May 2011.
3. S. T. Ramesh, R. Gandhimathi, S. Kanmani, **P.V. Nidheesh**. Solid Waste Management: Need, Innovations and Strategies - A Case Study of Madurai Municipal Corporation, Tamil Nadu. *National Conference on Emerging Trends in Engineering and Technology*, Govt. College of Engineering Calicut, February 2011.
4. **P.V. Nidheesh**, R. Gandhimathi, S. T. Ramesh, T. S. Anantha Singh. Adsorption of Methylene Blue by Bottom Ash – Kinetic and Equilibrium Studies. National Conference on Environmental Challenges towards Sustainability. GCT Coimbatore, March 2011.

5. S. T. Ramesh, R. Gandhimathi, **P.V. Nidheesh**. Recent Advances And Problems Associated With The Use Of Geosynthetics In Containment Approach In Landfill Management Facilities. Govt. College of Engineering Kannur, March 2011.
6. **P. V. Nidheesh**, R. Gandhimathi. Review, Analysis and Validation on pH Dependence of Fenton Processes. Select X3, CECRI Karaikkudi, February 2013.
7. **P. V. Nidheesh**, R. Gandhimathi. Graphite-Graphite Electro Fenton Process for Dye Removal: Advantages, Implementation Problems and Remedial Solutions. National Conference on Furthering Aspirations in Civil Engineering Techniques, Government College of Engineering Kannur, June 2014. (Best Paper Award)

WORKSHOPS, SHORT TERM COURSES, TRAINING PROGRAMMES etc.

I. Organized

- Indian Society for Technical Education (ISTE) approved training programme on "Water Pollution: Contaminant Quantification and Treatment" during 30.11.2015 to 04.12.2015 at Vimal Jyothi Engineering College, Chemperi, Kannur, Kerala
- A short term training programme on "Art of Writing Technical Articles" on 21.03.2016 at Vimal Jyothi Engineering College, Chemperi, Kannur, Kerala

II. Participated

1. Participated in "Young Water Professional Programme" held at NEERI Nagpur, India, on 22nd January 2011.
2. Participated in "Indo US Workshop on Forensic Engineering" organized by Department of Civil Engineering, NIT Tiruchirappalli, India and Department of Civil and Environmental Engineering, University of North Carolina at Charlotte, USA, during 15-17 December 2010.
3. Participated in "Introduction to Forensic and Failure Analysis" organized by Department of Civil Engineering, NIT Tiruchirappalli, India and Department of Civil and Environmental Engineering, University of North Carolina at Charlotte, USA, during 9-13 January 2012.
4. Participated in the short term course on "Ultrasound and its applications" organized by Department of Chemistry and Department of Chemical Engineering, NIT Tiruchirappalli, India during 22-23 March 2013.
5. Participated in the short term course on "Reliability Analysis and Design of Sub-Structures" organized by Department of Civil Engineering, NIT Tiruchirappalli, India during 3-4 October 2013.
6. Participated in the short term course on "Groundwater Contamination and Transport Modeling" organized by Department of Civil Engineering, NIT Tiruchirappalli, India during 25-26 October 2013.
7. Participated in the workshop on "Cleaner Technologies for Water and Wastewater" organized by Department of Civil Engineering, NIT Tiruchirappalli, India during 12-13 November 2013.

8. Participated in the workshop on "Water, Air, Soil : Sampling and Analysis" organized by Department of Civil Engineering, NIT Calicut, India during 11-12 March 2014.
9. Presented a lecture on "Fenton Catalytic Activity of Magnetite in the Presence UV Light and Electricity for the Removal of Dyes from Aqueous Solution" in the Indo-French workshop on "Sustainable Water Purification Technologies" held at CECRI Karaikkudi, during 11-13 February 2015.
10. Participated in the workshop on "Design of Experiments for Engineers and Researchers" organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Kannur, India on 22nd January 2016.
11. Attended RSC-NEERI Symposium on "Urban Air Pollution Chemistry" during December 2nd/ 3rd 2016
12. Participated in the Human Resources Development Programme on "My Energy-My Environment" on 5th January 2017 held at NEERI Nagpur
- 13.

BOOKS AND BOOK CHAPTERS

- 1 **P.V. Nidheesh**, R. Gandhimathi and S.T. Ramesh written a chapter naming "Use of Yoon Nelson and Mass Transfer Models for Prediction of Crystal Violet Adsorption Efficiency of Bottom Ash in Fixed-Bed System" (pp. 511-521) in the book, *Mathematical Modelling and Applications to Industrial Problems* (Macmillan Publishers India Ltd., 2012), edited by M.J. Jacob and S. Panda.
- 2 **P.V. Nidheesh**, Chemistry of Volumetric Water Quality Analysis. *Satish Serial Publishing House, Delhi, India* (ISBN 9789386200082)
- 3 **P.V. Nidheesh**, H. Olvera-Vargas, N. Oturan, M.A. Oturan, written a chapter naming "Heterogeneous Electro-Fenton Process: Principles and Applications" in the book "Electro-Fenton Process: New Trends and Scale-Up" (Editors: Minghua Zhou; M A Oturan, I. Sirés), Part of "The Handbook of Environmental Chemistry" book series; Springer, Berlin, Heidelberg.
- 4 **P.V. Nidheesh**, Ansaf V Karim, T. S. Anantha Singh, DhanashreeDofe, SheetalSahare, M Suresh Kumar, written a chapter naming "Mechanism of Treatment Methods of Arsenic-Contaminated Water" in the book "Mechanisms of Arsenic Toxicity and Tolerance in Plants" (Editors: Mirza Hasanuzzaman, Kamrun Nahar and Masayuki Fujita), Springer Nature Singapore Pte Ltd., Springer.

INVITED LECTURES

1. Presented a lecture on "Environmental pollution: An introduction" at Navodaya Vidyalaya, Vadakara, Calicut, Kerala on 15th December 2012.
2. Presented a lecture on "Importance of Literature Review in Research" at ISTE sponsored workshope on 'Research Methods and Tools for Engineers and Researchers' organized by Department of Mechanical Engineering, Vimal Jyothi Engineering College, Kannur, Kerala on 21st June 2016.
3. Presented a lecture on "Advanced oxidation processes for the treatment of water and wastewater" at College of Engineering, Thalassery, Kannur, Kerala on 17th October 2016.
4. Presented a lecture on "Electrochemical methods for water and wastewater decontamination" at Government College of Engineering Kannur, Kerala on 31st January 2017.
5. Presented a lecture on "Electrochemical methods for water and wastewater treatment" at Kerala State Council for Science and Technology sponsored training on 'Innovative Realms in Environmental Engineering' organized by Department of Civil Engineering, M. A. College of Engineering Kothamangalam, Kerala on 19th June 2018.

WORK EXPERIENCE

No.	Positions held	Name of the organization	From	To	Pay Scale
[1]	Senior Scientist	CSIR-NEERI Nagpur	29.08.2016	Till date	Grade pay: 7600
[2]	Associate Professor	Vimal Jyothy Engineering College, Kannur	10.08.2015	4.07.2016	Consolidated pay: 50000/-
[3]	Adhoc Faculty	NIT Calicut	01.01.2015	26.05.2015	Consolidated pay: 42000/-
[4]	Adhoc Faculty	NIT Calicut	06.08.2014	30.12.2014	Consolidated pay: 35000/-
[5]	Site Engineer	Asset Homes Pvt. Ltd. Cochin	21.07.2008	10.07.2009	Consolidated pay: 10000/-