
Name : Prof.Dr.S.Sivanesan

Designation and Affiliation : Professor

Department of Applied Science and Technology
AC Tech Campus
Anna University
Chennai - 600 025

Date of birth : 05.05.1963

Permanent Contact Address : No 3, Crescent Road
Kottur Gardens
Chennai - 600 085


**Academic Qualification :**

| | College Name | Area of Specialiazation | Year of passing | Marks Obtained |
|---|---|---|---|---|
| **Ph.D** | Anna University | Atmospheric Science & Technology | 1992 | Highly Commended |
| **UG** | Madras University | Environmental Chemistry | 1985 | First |
| **PG** | Madras University | Environmental Chemistry | 1983 | First |

**Area of Research: Adsorption, Airpollution, Biofuel, Waste water treatment, Waste management, Heterogeneous catalyst, Biodegradation**

**Research Projects:**

| S.No. | Client/Organization's name | Nature of Project | Duration of Project | Amount of Grant (Rupees) | Outcome of the project |
|---|---|---|---|---|---|
| 1. | University Grants Commission (UGC) | A Sustainable and Green Approach for Biomethane Enrichment by Biogas Recirculation and Algae Bioscrubbing | 2017 to 2020 (On Going) | 10,00,000.00 | Development of a Photo bioreactor (PBR) for biogas scrubbing. |

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|---|---|---|---|---|---|
| 2. | Department of Science & Technology | Green building and energy efficient cooling system for sustainable buildings in India | 22-12-2016 to 21-12-2019 (completed) | 60,22,300.00 | Development of MEPCM integrated cement plasters for green building |
| 3. | Science and Engineering Research Board, DST, New Delhi. | Differential effect of 20 HETE mediating VEGF and no induced changes in tissues by direct signaling mechanism | 22-11-2014 to 21-11-2017 (completed) | 54,53,000.00 | |
| 4. | Department of Science and Technology, New Delhi. | Development of integrated membrane Bioreactor for waste water treatment and reuse | 26-06-2013 to 26-06-2016 (completed) | 26,30,000.00 | Development of integrated membrane Bioreactor |
| 5. | Department of Science and Technology, New Delhi. | Establishment of Environmental Laboratory in the Department of Engineering under FIST Programme. | 01-04-2005 to 31-03-2010 (completed) | 40,00,000.00 | Establishment of research laboratory in the Department of Applied Science and Technology |
| 6. | University Grants Commission, New Delhi. | Hydrothermal synthesis of Mesoporous Carbon for effective removal of textile dye. | 11-01-2011 to 28-02-2014 (completed) | 8,43,800.00 | Development of novel activated carbon to remove textile dye |
| 7. | University Grants Commission, New Delhi. | Synthesis of modified vinyl monomer grafted cellulose bearing functional containing | 11-01-2011 to 28-02-2014 (completed) | 12,00,000.00 | Synthesis of donar atoms adsorbent to reove heavy metals from industrial effluents |

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| | | donor atoms for the removal of heavy metals from industrial effluents. | | | |
| 8. | Department of Science & Technology, New Delhi. | Investigation on the formation of photochemical Ozone and it's with alkenes-laboratory and field studies | 01-08-2003 to 31-07-2006 (completed) | 17,89,200.00 | |
| 9. | Defence Research & Development Establishment | Development of membrane materials &membranes for gas & organic separation | 17-12-2008 to 16-04-2010 (completed) | 9,78,000.00 | Development of membrane materials &membranes for organic separation |
| 10. | Defence Research & Development Establishment | Studies on novel nano and ultra-filtration membranes for treatment | 01-02-2009 to 31-01-2012 (completed) | 5,81,800.00 | Case study on nano and ultra-filtration membrane for wastewater treatment |

**Post doctoral research / Ph.D /M.Tech / MS Guidance:**

**PDF : 03 (ongoing)**

**Ph.D : 33**

**M.E/M.Tech/M.S : 03**

**Research publications:**

| Category | Conferences | Journals |
|---|---|---|
| National | 05 | 05 |
| International | 04 | 186 |

**Books & Chapter:**

International publications : 4

**Patent: 03**

**Consultancy Assignments:**

| S. No. | Client/Organization's Name with reference No. | Nature of Assignment | Duration | Outcome | Value (Rs. in lakhs) |
|---|---|---|---|---|---|
| 1 | Tamil Nadu Text Book & Educational Service Corporation, Govt. of Tamil Nadu. | Test the quality of Geometry Boxes | 2015 - 2017 | Qualitative analysis of Geometry Boxes | 5,78,000/- |
| 2 | Tamil Nadu Text Book & Educational Service Corporation, Govt. of Tamil Nadu. | Test the quality of school bags | 2019-2020 | Qualitative analysis of school bags | 2,71,400/- |

**Administrative Experience:**

| Position | University/ Institution | Duration | | Experience (in Years & Months) | | | |
|---|---|---|---|---|---|---|---|
| | | From (DD/MM/YY) | To (DD/MM/YY) | Y | Y | M | M |
| **Chairman** | University Sports Board, Anna University, Chennai. | 25/03/ 2019 | 31/08/ 2020 | 0 | 1 | 0 | 5 |
| **Dean** | Alagappa College of Technology | 24/06/ 2013 | 30/06/2018 | 0 | 5 | - | - |
| **Chairman** | University Sports Board, Anna University, Chennai. | 01/07/2011 | 23/06/2012 | 0 | 3 | 0 | 3 |
| **Registrar (i/c)** | Anna University, Chennai, India | 14/12/2012 | 23/06/2013 | - | - | 0 | 7 |
| **Dean** | Alagappa College of Technology | 01/08/ 2012 | 13/12/ 2012 | - | - | 0 | 3 |
| **Director** | Centre for Entrepreneurship Development, Anna | 20/08/2008 | 31/01/2012 | 0 | 6 | 0 | 6 |

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| | University, Chennai, India. | | | | | | |
| **Head of the Department** | Department of Applied Science and Technology, Anna University, Chennai, India. | 02/01/ 2012 | 30/06/ 2012 | - | - | 0 | 6 |
| **Head of the Department** | Dept. of Chemical Engineering, Anna University, Chennai | 02/01/2011 | 30/06/2011 | - | - | 0 | 6 |
| **Deputy Chairman** | University Sports Board, Anna University, Chennai | 01/09/2009 | 31/12/2010 | 0 | 3 | - | - |

**Awards/Recognitions:**

| S. No. | Name of Award or Fellowship | Awarded by | Year of Award |
|---|---|---|---|
| 1. | **Outstanding Research Award** for publishing more than 100 research papers in Scopus indexed journals | CTDT, Anna University | 2019 |
| 2. | Mid-Career grant Award | UGC | 2018 |
| 3. | Dr. A. P. J. Abdul Kalam Scientist Award | World Tamil Classical University. | 2017 |
| 4. | Certificate of appreciation from various international peer review Journals for valuable contribution. | Elsevier, ACS and Springer | 2011-2019 |
| 5. | Tamil Nadu Scientists (TANSA 2013) Award in Environmental Science | Government of Tamil Nadu | 2013 |

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|---|---|---|---|
| 6. | 1st Rank in Co-ordinating with Iyarkai Mission | Government of Tamil Nadu | 2012 |
| 7. | Certificate of appreciation from American Chemical Society (ACS) for valuable contribution to ACS Journals. | Journal of the American Chemical Society | 2011 |
| 8. | Nominated for International Educator of the year for 2008 | The International Biographical Center of Cambridge, England | 2008 |
| 9. | Ranked No 1. Top cited author 2004 & 2007 | The Colloid and Surface Science. Elsevier, Netherland | 2004 & 2007 |
| 10. | STA Award (Science and Technology Agency, Japan) | Science and Technology Agency, Japan | 2000 |
| 11. | Marie Curie award | European Community | 1995 |

**TECHNICAL RESEARCH PUBLICATIONS**

| S. No | Authors Name | Title of Paper | Journal Name, Year, Vol. & Page No | Number of Citations |
|---|---|---|---|---|
| 1. | Kumar, S. Kubera Sampath, C. Prakash, S. Vaidheeswaran, B. Karthic Kumar, and S. Subramanian. | Design and characterization of secondary and tertiary layers of a multilayer wound dressing system. | Journal of Testing and Evaluation,2020 48, (4) | 05 |
| 2. | Manicka Periyaraman, Premkumar, Juan C. Espinosa, Belén Ferrer, S. Sivanesan, Mercedes Álvaro, Hermenegildo García, and Sergio Navalón. | Bimetallic iron-copper oxide nanoparticles supported on nanometric diamond as efficient and stable sunlight-assisted Fenton photocatalyst | Chemical Engineering Journal, 2020 (124770) | 05 |
| 3. | Radhakrishnan, K., S. Sivanesan, and P. | Turn-On fluorescence | Journal of Photochemistry and | 10 |

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| | Panneerselvam. | sensor based detection of heavy metal ion using carbon dots@ graphitic-carbon nitride nanocomposite probe." | Photobiology A: Chemistry,2020, 389 (112204). | |
| 4. | Rawoof, Salma Aathika Abdur, P. Senthil Kumar, Dai-Viet N. Vo, Kubendran Devaraj, Yuvarani Mani, Thiruselvi Devaraj, and Sivanesan Subramanian. " | Production of optically pure lactic acid by microbial fermentation: a review. | Environmental Chemistry Letters, 2020, 2,(1-18). | 10 |
| 5. | Devaraj, Kubendran, Yuvarani Mani, Salma Aathika Abdur Rawoof, Amudha Thanarasu, Anuradha Dhanasekaran, and Sivanesan Subramanian. | Feasibility of biodiesel production from waste cooking oil: lab-scale to pilot-scale analysis | Environmental Science and Pollution Research International, 2020, (13) | 02 |
| 6. | Saikia, Kongkona, Abiram Karanam Rathankumar, Betsy Ann Varghese, Shravani Kalita, Sivanesan Subramanian, Swarnalatha Somasundaram, and Vaidyanathan Vinoth Kumar. | Magnetically assisted commercially attractive chemo-enzymatic route for the production of 5-hydroxymethylfurfural from inulin | Biomass Conversion and Biorefinery,2020, (1-11). | 05 |
| 7. | Dhanalakshmi, N., T. Priya, S. Thennarasu, S. Sivanesan, and N. Thinakaran. | Synthesis and electrochemical properties of environmental free l-glutathione grafted graphene oxide/ZnO nanocomposite for highly selective piroxicam sensing | Journal of Pharmaceutical Analysis ,2020 | 01 |
| 8. | Saikia, Kongkona, Ponnusamy Senthil Kumar, Abiram Karanam Rathankumar, Sundar SaiLavanyaa, Lakshmi Srinivasan, Sivanesan Subramanian, Hubert Cabana, Mathilde Gosselin, and Vaidyanathan Vinoth Kumar. | Amino-functionalised mesoporous silica microspheres for immobilisation of Candida antarctica lipase B–application towards greener production of 2, 5-furandicarboxylic | IET nanobiotechnology, 2020, 14, 8, 732-738 | 02 |

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| | | acid. | | |
| 9. | Thiruselvi D, Kumar PS, Kumar MA, Lay CH, Aathika S, Mani Y, Jagadiswary D, Dhanasekaran A, Shanmugam P, Sivanesan S, Show PL. | A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives | International Journal of Hydrogen Energy,2020 | 06 |
| 10 | Rawoof, Salma Aathika Abdur, P. Senthil Kumar, Dai-Viet N. Vo, and Sivanesan Subramanian. | Sequential production of hydrogen and methane by anaerobic digestion of organic wastes: a review | Environmental Chemistry Letters, 2020, (1-21), | 02 |
| 11. | Ramya, T., L. Vidhya, S. Vinodha, D. Anuradha, and S. Sivanesan. | Graphene Modified Electrochemical Sensors for Toxic Chemicals | Graphene-Based Electrochemical Sensors for Toxic Chemicals, 2020, 82 ,(1-24). | - |
| 12. | Mani, Yuvarani, Thiruselvi Devaraj, Kubendran Devaraj, Salma Aathika AbdurRawoof, and Sivanesan Subramanian. | Experimental investigation of biodiesel production from Madhuca longifolia seed through in situ transesterification and its kinetics and thermodynamic studies | Environmental Science and Pollution Research,2020, 27, 29 (36450-36462). | 02 |
| 13. | Thiruselvi, D., M. Yuvarani, A. Salma, Y. Arafath, D. Jagadiswary, M. A. Kumar, D. Anuradha, P. Shanmugam, and S. Sivanesan. | Enhanced biogas from sewage sludge digestion using iron nanocatalyst from Vitex negundo leaf extract: response surface modeling | International Journal of Environmental Science and Technology,2020,1-12. | 01 |
| 14. | Rawoof, Salma Aathika Abdur, Ponnusamy Senthil Kumar, Kubendran Devaraj, Thiruselvi Devaraj, and Sivanesan Subramanian. | Enhancement of lactic acid production from food waste through simultaneous saccharification and fermentation using selective | Biomass Conversion and Biorefinery,2020, (1-12). | - |

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| | | microbial strains | | |
| 15. | Krishnan, Mariselvam Ammasi, Thiruselvi Devaraj, Karthikeyan Velayutham, Vasudevan Perumal, and Sivanesan Subramanian. | Statistical evaluation of PM 2.5 and dissemination of PM 2.5, SO 2 and NO 2 during Diwali at Chennai, India. | Natural Hazards, 2020, 103, 3 (3847-3861) | - |
| 16. | Thanarasu, Amudha, Karthik Periyasamy, Premkumar Manickam Periyaraman, Thiruselvi Devaraj, Karthikeyan Velayutham, and Sivanesan Subramanian. | Comparative studies on adsorption of dye and heavy metal ions from effluents using eco-friendly adsorbent | Materials Today: Proceedings(2020) | 03 |
| 17. | Mariselvam, A. K., K. Padmanabhan, and S. Sivanesan. | Reliability of Results of Measurements of Air Pollution by Solid Particles by the Method of Detection of Scattered Laser Radiation | Measurement Techniques 2020, 63, 4,(266-272) | - |
| 18. | Mariselvam, A. K., P. Vasudevan, K. Padmanabhan, and S. Sivanesan. | Smartphone APP for Continuous Observation of Pollution Levels Due to Particulate Matter Measured by Laser Mie Scattering | JIEIA,2020 | - |
| 19. | Muthumanickkam, A., S. Subramanian, M. Sathiyaraj, P. Preethi, and M. Ashwini. | Development of herb based (Nigella sativa) eri silk nanofibrous mat for biomedical applications. | Materials Today: Proceedings,2020, 22, (585-588) | 01 |
| 20. | Abiram Karanam Rathankumar, Sundar SaiLavanyaa, KongkonaSaikia, Anusha G, Subramanian Sivanesan, Mathilde Gosselin, Vinoth Kumar Vaidyanathan, Hubert Cabana. | Systemic Concocting of Cross-Linked Enzyme Aggregates of Candida antarctica Lipase B (Novozyme 435) for the Biomanufacturing | Journal of Surfactants and Detergents, 2019, 22,3 (477-490) | 12 |

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| | | of Rhamnolipids" , Journal of Surfactants and Detergents | | |
| 21. | Espinosa, Juan C., Premkumar Manickam-Periyaraman, Francisco Bernat-Quesada, Subramanian Sivanesan, Mercedes Álvaro, Hermenegildo García, and Sergio Navalón. | Engineering of activated carbon surface to enhance the catalytic activity of supported cobalt oxide nanoparticles in peroxymonosulfate activation. | Applied Catalysis B: Environmental,2019, 249 (42-53). | 40 |
| 22. | Krishnan, MariselvamAmmasi, Karthikeyan Jawahar, Vasudevan Perumal, Thiruselvi Devaraj, AmudhaThanarasu, Devaraj Kubendran, and Subramanian Sivanesan. | Effects of ambient air pollution on respiratory and eye illness in population living in Kodungaiyur, Chennai. | Atmospheric Environment, 2019, 203,166-171. | 09 |
| 23. | Thangamani, Ramya, Muthukumar Muthusamy, Premkumar Manickam Periyaraman, AmudhaThanarasu, Thiruselvi Devaraj, Anuradha Dhanasekaran, and Subramanian Sivanesan. | Advance electrochemical oxidation of fipronil contaminated wastewater by graphite anodes and sorbent nano hydroxyapatite | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2019, 41, no. 7,(866-880). | 01 |
| 24. | Devaraj, Kubendran, ManivasaganVeerasamy, Salma Aathika, Yuvarani Mani, AmudhaThanarasu, Anuradha Dhanasekaran, and Sivanesan Subramanian. | Study on Effectiveness of Activated Calcium Oxide in Pilot Plant Biodiesel Production | Journal of Cleaner Production, 2019, 225, 18-26. | 19 |
| 25. | M Muppidathi, P Perumal, R Ayyanu, S Subramanian. | Immobilization of ssDNA on a metal-organic framework derived magnetic porous carbon (MPC) composite as a fluorescent sensing platform for the detection of arsenate ions | The Analyst, 2019, 144(9):3111-3118. | 09 |
| 26. | Periyaraman, Premkumar Manickam, Sowmya Karan, Senthil Kumar Ponnusamy, Vinothkumar Vaidyanathan, | Adsorption of an anionic dye onto native and chemically | Environmental Engineering & Management Journal, 2019, (EEMJ) 18, no. 1 | 05 |

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| | SathyaselvabalaVasanthakumar, Anuradha Dhanasekaran, and Sivanesan Subramanian. | modified agricultural waste. | | |
| 27. | Latha, K., R. Velraj, P. Shanmugam, and S. Sivanesan | Mixing strategies of high solids anaerobic co-digestion using food waste with sewage sludge for enhanced biogas production. | Journal of Cleaner Production, 2019, 210,388-400. | 53 |
| 28. | Rathankumar, Abiram Karanam, Sundar SaiLavanyaa, KongkonaSaikia, Anusha Gururajan, Subramanian Sivanesan, Mathilde Gosselin, Vinoth Kumar Vaidyanathan, and Hubert Cabana. | Systemic Concocting of Cross-Linked Enzyme Aggregates of Candida antarctica Lipase B (Novozyme 435) for the Biomanufacturing of Rhamnolipids. | Journal of Surfactants and Detergents, 2019, 22(3), 477-490 | 12 |
| 29. | Christus, A. Anand Babu, P. Panneerselvam, A. Ravikumar, M. Marieeswaran, and S. Sivanesan | MoS 2 nanosheet mediated ZnO–gC 3 N 4 nanocomposite as a peroxidase mimic: catalytic activity and application in the colorimetric determination of Hg. | RSC Advances, 2019,9(8): 4268-4276. | 03 |
| 30. | Thangaraj, Vidhyadevi, Kannan Aravamudan, Ravikumar Lingam, and Sivanesan Subramanian | Individual and simultaneous adsorption of Ni (II), Cd (II), and Zn (II) ions over polyamide resin: Equilibrium, kinetic and thermodynamic studies. | Environmental Progress & Sustainable Energy, 2019, 38, no. S1,S340-S351. | 06 |
| 31. | KAY Arafath, P Baskaralingam, S Gopinath, D Nilavunesan, S Sivanesan. | Degradation of phenol from retting-pond wastewater using anaerobic sludge reactor integrated with photo catalytic treatment | Chemical Physics Letters, 2019, 734, 136727 | |

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| 32. | T Ramya, P Premkumarb, A Thanarasub, K Velayutham, S Sivanesan | Degradation of pesticide-contaminated wastewater (coragen) using electrocoagulation process with iron electrodes | Desalination And Water Treatment, 2019, 165, 103-110 | 04 |
| 33. | Arafath, S Gopinath, D Nilavunesan, S Sivanesan, P Baskaralingam | Phenol degradation and chemical oxygen demand analysis of coir retting wastewater using anaerobic treatment | Journal of Environmental Biology, 2019, 40 (4), 784-789 | 01 |
| 34. | AK Mariselvam, MA Kumar, C Dharmaraj, E Maharaj, N Dhasarathan, S Sivanesan | Assessment of air quality index of urban area and epidemiological investigations in Chennai | Journal of Environmental Biology, 2019, 40 (4), 790-795. | - |
| 35. | YA KA, S Gopinath, D Nilavunesan, S Sivanesan, P Baskaralingam. | Removal of phenol in coir retting wastewater by membrane bioreactor combined with photo-fenton process using RSM | Materials Research Express, 2019, 6 (11), 115506 | 02 |
| 36. | A Thanarasu, K Periyasamy, J Thamizhakaran Stanley, K Devaraj,Premkumar Manickam, C D Anuradhs, S Sivanesan | Anaerobic Codigestion of Alkali-Pretreated Prosopis juliflora Biomass with Sewage Sludge for Biomethane Production | Energy & Fuels, 2019, 33 (8), 7357-7365 | 04 |
| 37. | GJ Joshibaa, PS Kumara, CC Feminaa, E Jayshreea, R Racchanaa, S Sivanesan | Critical review on biological treatment strategies of dairy wastewater. | Desalination and water treatment,2019, 160, 94-109 | 08 |
| 38. | Shanmugam, Latha, Velraj Ramalingam, Shanmugam Palaniyandi, and Sivanesan Subramanian. | Comparison of different mixing phenomena in anaerobic digestion using food waste and sewage treatment plant for green biofuel | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2019,1-13. | 01 |

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| | | through simulations of velocity contours. | | |
| 39. | A Hameed, M Natarajan, S Jabbar, JJ Dhanasekaran, K Kumar, S Sivanesan. | Immune response to brugiamalayiasparaginyl-tRNA synthetase in Balb/c Mice and human clinical samples of lymphatic filariasis. | Lymphatic research and biology, 2019,17 (4), 447-456 | 02 |
| 40. | Thangamani, Ramya, Karthikeyan Velayutham, ThanarasuAmudha, Anuradha Dhanasekaran, and Sivanesan Subramanian. | Degradation of Synthetic Agro wastewater (Fipronil) using Electro Coagulation Process by Iron Electrodes | World Journal of Agriculture and Soil Science,2018, 1, no. 1: 1-6. | - |
| 41. | Velayutham Karthikeyan, Vasuraj Surya Praba, Madhava Anil Kumar, Manickam PeriyaramanPremkumar, Subramanian Sivanesan | Strain improvement of Pleurotuscitrinopileatus MTCC 1796 for enhanced production of laccase enzymes and its environmental application | Desalination and Water Treatment, 2018, 122, (293–297) | - |
| 42. | Amudha T, Karthik P, Kubendran D, Premkumar P, Shanmugam P, Sivanesan S, | Tea Powder Waste as a Potential Co-substrate for Enhancing the Methane Production in Anaerobic Digestion of Carbon-Rich Organic Waste. | Journal of Cleaner Production, 2018, 199,(651-658). | 11 |
| 43. | A. Anand Babu Christus, P. Panneerselvam, A. Ravikumar, NorhashimahMorad, S. Sivanesan, | Colorimetric determination of Hg(II) sensor based on magnetic nanocomposite (Fe3O4@ZIF-67) acting as peroxidase mimics | Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364,pp. 715-724. | 13 |
| 44. | Gopinath S; SahayaMurphin Kumar P; Yasar Arafath K.A.; Sivanesan S; | Cs-tungstosilicic acid / Zr- KIT-6 for esterification of | Fuel, 2018, 234, pp. 824-835. | 27 |

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| | Baskaralingam | Oleic acid and transesterification of non-edible oils for green diesel production | | |
| 45. | Ravikumar, A., P. Panneerselvam, K. Radhakrishnan, A. Anand Babu Christus, and S. Sivanesan. | MoS2 nanosheets as an effective fluorescent quencher for successive detection of arsenic ions in aqueous system. | Applied Surface Science. 2018, Vol. 449, (31-38) | 16 |
| 46. | Karthik P, Santhalembi L, Mortha G, Aurousseau M, Boyer A, and Sivanesan S, | Bioconversion of Lignocellulosic Biomass to Fermentable Sugars by Immobilized Magnetic Cellulolytic Enzyme Cocktails | Langmuir, 2018, 34, (6546-6555). | 02 |
| 47. | Thiruselvi D, Yuvarani M, Amudha T, Sneha R, Mariselvam AK, Anil Kumar M, Shanmugam P, Sivanesan S, | Synthesis of iron nano-catalyst using Acalypha indica leaf extracts for biogas production from mixed liquor volatile suspended solids | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2018, 40, (772-779) | 02 |
| 48. | Salma Aathika AR, Kubendran D, Yuvarani M, Thiruselvi D, AmudaT, Karthik P, Sivanesan S. | Enhanced biohydrogen production from leather fleshing waste co-digested with tannery treatment plant sludge using anaerobic hydrogenic batch reactor | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2018, 40, 5:586-593. | 05 |
| 49. | Devaraj Kubendran, Salma Aathika, Karthik Periyasamy, Premkumar Manickam Periyaraman, Shanmugam Palaniyandi, and Sivanesan Subramanian. | Production of thermostable multiple enzymes from Bacillus amyloliquefaciens KUB29. | Natural product research, 2018, 1-4. | 10 |
| 50. | Yasar Arafath K.A, NilavuNesan D, Sivanesan S, Thiruvengadaravi K.V, Baskaralingam P. | Effects of retting pond waste water pollution and seasonal variation | International Journal of Environment and Sustainable development, 2018, | 01 |

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| | | | Vol. 17, 2/3., pp.216-227. | |
| 51. | Kubendran D, Salma Aathika, Yuvarai M, Amudha T, Karthik P, Premkumar MP, Karthikeyan V and Sivanesan S | Experimental Investigation on Cleaner process of Enhanced Fat-Oil Extraction from Alkaline Leather Fleshing Waste. | Journal of Cleaner Production ,2018, 17, (1-7). | 19 |
| 52. | Yuvarani, Mani, Devaraj Kubendran, AbdurRawoof Salma Aathika, Periyasamy Karthik, Manickam PeriyaramanPremkumar, Velayutham Karthikeyan, and Sivanesan S. | Extraction and characterization of oil from macroalgae Cladophora glomerata | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2018, 39, 23:2133-2139. | 20 |
| 53. | Velayutham, Karthikeyan, Anil Kumar Madhava, MohanapriyaPushparaj, AmudhaThanarasu, Thiruselvi Devaraj, Karthik Periyasamy, and Sivanesan Subramanian. | Biodegradation of Remazol Brilliant Blue R using isolated bacterial culture (Staphylococcus sp. K2204). | Environmental Technology (2017): 1-8. | 27 |
| 54. | Ravikumar, A., P. Panneerselvam, K. Radhakrishnan, NorhashimahMorad, C. D. Anuradha, and S. Sivanesan. | DNAzyme based amplified biosensor on ultrasensitive fluorescence detection of Pb (II) ions from aqueous system. | Journal of fluorescence, 2017, 27, no. 6:2101-2109. | 14 |
| 55. | Devaraj Kubendran, AbdurRawoof Salma Aathika, ThanarasuAmudha, Devaraj Thiruselvi, Mani Yuvarani, S, Sivanesan | Utilization of leather fleshing waste as a feedstock for sustainable biodiesel production | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2017, 1-10. | 21 |
| 56. | M.A. Kumar, P.A. Zamana, V.V. Kumar, P. Baskaralingam, K.V. Thiruvengadaravi, T. Amudha and S. Sivanesan,. | Chemo-metric optimization and canonical correlation analyses | Journal of Water Process Engineering, 2017, 1,18(73-82) | 12 |
| 57. | S. Gopinath, P. SahayaMurphin Kumar, K.A. Yasar Arafath, K.V. Thiruvengadaravi, S. Sivanesan, P. Baskaralingam,. | Efficient mesoporous SO42−/Zr-KIT-6 solid acid catalyst for green diesel production from esterification of oleic acid | Fuel, 2017, Vol.203, 1 (488–500). | 43 |

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| 58. | Kumar, M.A., Poonam, S., Kumar, V.V., Baskar, G., Seenuvasan, M., Anuradha, D. and Sivanesan, S., | Mineralization of aromatic amines liberated during the degradation of a sulfonated textile colorant using Klebsiella pneumoniae strain AHM. | Process Biochemistry,2017,1, 57, (181-189) | 17 |
| 59. | Nilavunesan, D., Thiruvengadaravi, K. V., Yuvarani, M., &Sivanesan, S. (2017). | Modified zeolite as a catalyst for Pongamia pinnata oil esterification in biodiesel production. | International Journal of Materials and Product Technology, 2017, 55(1-3), 278-285. | 05 |
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**INTERNATIONAL CONFERENCES**

| S. No. | Title of presentation | Date | Name of the event | Organization and Place |
|---|---|---|---|---|
| 1. | An Integrated Anaerobic Digestion and Microbial Electrolysis System for the Enhancement of Methane Production from Organic Waste: A Future Perspectives | 06 & 07 May 2021 | 2nd International Conference on Recent trends in Clean Technologies for Sustainable Environment | SSN College of Engineering, Chennai |
| 2. | Preparation of Cinnamaldehyde cross linked Chitosan Hydrogels by hydrothermal reaction characterization and antibacterial activit | 06 & 07 May 2021 | 2nd International Conference on Recent trends in Clean Technologies for Sustainable Environment | SSN College of Engineering, Chennai |
| 3. | Kinetics and Thermodynamics approach for Biodiesel Production | 07-09 August 2019 | International conference on sustainable | SRM Institute of Science and Technology, |

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| | using Madhuca Longipolia Seed through Instiu Transesterfication Route | | Technology for Industrial Hazardous Waste Management | Chennai |
| 4. | Bioenergy, Environmental and Sustainable Technology | 28-30th January 2019 | 4th International Conference | Arunai Engineering College, Thiruvannamalai |
| 5. | Removal of Chromium and TOC from Tanning Industries Wastewater using Electrocoagulation Techniques | 27-29th December 2018 | International conference on Modern Trends in Chemical Science including Green Chemistry | SRM Institute of Science and Technology, Chennai |
| 6. | Inspirational Chemistry Programme | 10-11 August 2018 | Royal Society of Chemistry Yusuf Hamied Inspirational Chemistry Programme | SRM Institute of Science and Technology, Chennai |
| 7. | Sustainable Development and Clean Technologies | 3rd July 2018 | One day International seminar on Sustainable Development and Clean Technologies | Anna University, Chennai |
| 8. | Advanced Manufacturing and Automation | 5-6th April 2018 | 3rd International Conference | Kalasalingam Academy of Research and Education, KrishnanKoil |
| 9. | Strain improvement of Pleurotus Citrinopileatus MTCC 1796 for Enhance Production of Laccase enzyme and its Environmental Applications | 15-16th February 2018 | 3rd International Conference | SSN college of Engineering, Chennai |
| 10. | Energy, Environment and Industrial Safety | 22-23th February 2018 | International Conference | Department of Applied Science and Technolgy, Anna University, Chennai |
| 11. | Advances Materials and | 22-24th | International Workshop on | Anna University, |

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| | Device Technology | November 2017 | Advances Materials and Device Technology | Chennai |
| 12. | Comparative Studies on Adsorption of Dye and Heavy Metal Ions from Effluents Using Ecofriendly Adsorbent | 14 Aug 2017 | International Conference on Advances in Functional Materials, | University of California, Los Angeles Campus, USA |
| 13. | Frontier area in Chemical Technology | 21-23th March 2016 | International Conference on Frontier area in Chemical Technology | Alagappa University, Karaikudi |
| 14. | Advanced Functional Nanomaterials | 16-18$^{th}$ December 2015 | 3$^{rd}$ International Conference | Anna University, Chennai |
| 15. | Heterogeneous Catalytic process for Biodiesel Production | 28-31 January 2015 | 2$^{nd}$ International conference on Bioenergy Environment and Sustainable Technology | Arunai Engineering College, Thiruvannamalai |
| 16. | Materials and Characterization Techniques | 10-12$^{th}$ March 2014 | International conference on Materials and Characterization Techniques | VIT University, Vellore |
| 17. | Equilibrium and Kinetics absorption studies of acid red dye from aqueous solution using low cost Setaria | 12-14$^{th}$ March 2014 | 3$^{rd}$ International Conference | Centre Leather Research Institute, Chennai |
| 18. | Environmental and Occupational Health | 16-17$^{th}$ December 2013 | International workshop on Environmental and Occupational Health | Manipal University, Manipal |
| 19. | Green Technology in Engineering and Applied Science | 29-30$^{th}$ March 2013 | International conference on Green Technology and Applied Science | Adhiparasakthi Engineering College, Melmaruvathur |
| 20. | Textile and Electrochemical Science | 21-23th March 2013 | Recent advances in Textile and Electrochemical | Alagappa University, Karaikudi |

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| | | | Science | |
| 21. | Recent Developments in Membrane Technology | 10-11th February, 2011 | Indo-Europe workshop on Recent Development in Membrane Technology for Industrial Applications | Anna University, Chennai |
| 22. | Polymer Processing and Characterization | 15-17th January 2010 | Second International conference on Polymer Processing and Characterization | Institute of Macromolecular science and Engineering, Kerala |
| 23. | Zero Carbon City Reacting to Climate Change | 25th January 2006 | Indo-UK Seminar Climate Change and its Impact on Coastal Zones, British Council and Institute for Ocean Management, | Anna University, Chennai |
| 24. | Synthesis of Organoclay and its application in wastewater treatment | 06 January 2005 | International Conference on Environment, Ecology and Pollution, | Arunai Engineering College, Tiruvannamalai |
| 25. | The Effect of Water Soluble Salts on the Ice Nucleating Ability of AgI-AgCl-CuI System | - | 1st Asia Aerosol Conference, | Kanazawa, Japan |
| 26. | Thematic mapping for dispersion of industrial pollution | 2014 | International conference on atmospheric dust | Castellaneta Marina (TA) Italy |
| 27. | Powder diffraction | July16-19, 1990 | International symposium on powder diffraction | Toulouse, France |
| 28. | Nucleation program | August 21, 1990 | Keynote address on nucleation program | Bologna, Italy |

**NATIONAL CONFERENCES**

| S. No. | Title of presentation | Date | Title of event | Organised by |
|---|---|---|---|---|
| 1. | Synthesis and Characterization of Modified Cellulose for the Removal of Cadmium (II) ions from Aqueous Solution | 12th September 2019 | National Conference on Recent Advances in Chemical Research | SRM Institute of Science and Technology, Chennai |
| 2. | Chemistry and Materials | 22 March 2019 | National Conference on chemistry and materials | Saveetha Engineering College, Chennai. |
| 3. | Clinical Biochemist | 24-27 October 2018 | National conference on Association of Clinical Biochemist of India | Kala Academy, Goa |
| 4. | Research Methodology and Scientific Writing | 11-12th July, 2018 | Workshop on Research Methodology and Scientific Writing | Anna University, Chennai |
| 5. | Frontiers in Chemical Process Industries | 19 March 2018 | One day seminar on Frontiers in Chemical Process Industries | Anna University, Chennai |
| 6. | Technical Symposium | 15-16th March 2018 | National Level Technical Symposium | Anna University, Chennai |
| 7. | Current Trends in Nanomaterial for Various Applications | 27 January 2017 | National Level Seminar on Current Trends in Nanomaterial for Various Applications | Ananda College, Karaikudi |
| 8. | Indian Chemical Engineering Congress | 27-30th December 2016 | 69th Annual Session of Indian Institute of Chemical Engineers | Anna University, Chennai |
| 9. | National Workshop and Hands on Training Programme | 11-12 november 2016 | National Workshop and Hands on Training Programme on Thin Film Solar Cells | Centre for Nanoscience and Technology Ana University Chennai |
| 10. | Recent advances in Nanoscience and Technology | 6-7th October | National seminar on Recent | Centre for Nanoscience and |

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| | | 2016 | advances in Nanoscience and Technology | Technology Ana University Chennai |
| 11. | Crystal growth and Epitaxy | March 14-15/2016 | 26th national seminar on Crystal growth and Epitaxy | Crystal growth center, Anna university, Chennai |
| 12. | Photocatalytic Degradation of dyes using Silver Nanoparticles Supported on Nanometric Diamond | 19th August 2016 | 8th Nation conference on Recent trends in Chemical, Energy and Environmental Engineering | SSN college of Engineering, Chennai |
| 13. | Nano Science and Analytical Techniques | 04 March 2016 | Faculty development on Nano Science and Analytical Techniques for Finding Novel Drugs | RVS Technical Campus, Coimbatore |
| 14. | Synthesis of chitson incorporated lignocellulosic material of the sequestration of pB(II)&Cu(II) from industrial efffluent | 19-20th February, 2016 | National level technical symposium | Anna University, Tiruchirappalli |
| 15. | Production of Bio-Diesel from Fish waste | 6th January 2016 | National Conference on Emerging Trends in Chemical Sciences | Jerusalem College of Engineering, Chennai |
| 16. | Technical Communication | 8th October - 5th December 2015 | National mission on education through ICT (MHRD)q | India Institute of Technology, Bombay |
| 17. | Synthesis of novel chelating polymer bearing pendant groups for the applications of metal sensing in aqueous media | 15-16th October 2015 | National conference on Development in Inorganic Applications | Periyar University Salem |
| 18. | National biogas convention | 15-16 September 2015 | National biogas convention on current and emerging trends in Indian biogas and bio fertilizer | IIT Delhi |
| 19. | Modified zeolite as a catalyst for Pongamia pinnata oil esterification in biodiesel | 25th September 2015 | 3rd national conference on Clean | SSN college of Engineering, Chennai |

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| | production | | Technology for Sustainable Environment | |
| 20. | Anaerobic Digestion of Food Waste and its Performance: Comparison with STP for biofuel | 25th September 2015 | 3rd national conference on Clean Technology for Sustainable Environment | SSN college of Engineering, Chennai |
| 21. | Emerging Issues in Environment | 22-24th July 2015 | National conference on Emerging Issues in Environment, Occupational Health & Safety | ROHC(S)-NIOH, Bangalore |
| 22. | Tea Powder Waste as a Potential Co-substrate for Enhancing the Methane Production in Anaerobic Digester | 10th April 2015 | 2nd National Conference on recent trends in Clean Technology for Sustainable Environment | SSN college of Engineering, Chennai |
| 23. | Enhanced biohydrogen production from leather fleshing waste co-digested with tannery treatment plant sludge using anaerobic hydrogenic batch reactor | 10th April 2015 | 2nd National Conference on recent trends in Clean Technology for Sustainable Environment | SSN college of Engineering, Chennai |
| 24. | Keynote Address and Session Chair | 23 April 2015 | National Conference on Advancements and Challenges in Civil Engineering | Valliammai Engineering College, Chennai |
| 25. | Hydrocarbon resources | 5 March 2015 | National conference on unconventional hydrocarbon resources | Rajiv Gandhi College of Engineering, Chennai |
| 26. | Experimental Investigation on Cleaner process of Enhanced Fat-Oil Extraction from Alkaline Leather Fleshing Waste | 5th December 2014 | 1st nation conference on recent trends in Clean Technology for Sustainable Environment | SSN college of Engineering, Chennai |
| 27. | Utilization of leather fleshing waste as a feedstock for sustainable biodiesel production | 5th December 2014 | 1st nation conference on recent trends in Clean | SSN college of Engineering, Chennai |

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| | | | Technology for Sustainable Environment | |
| 28. | Environmental Education and Awareness Programme | 24 November 2014 | Environmental Education and Awareness Programme | C.P.R Environmental Education Centre, Chennai |
| 29. | Workshop on R&D project proposal | 26th February 2014 | Workshop on R&D project proposal – awareness needs and benefits | CTDT, Anna university, Chennai |
| 30. | Keynote Address and Session Chair | 11 April 2014 | National Conference on Advancements and Challenges in Civil Engineering | Valliammai Engineering College, Chennai |
| 31. | Recent Advances in Nanomaterials for Sensor Applications | 6-7th March 2014 | National Conference on Recent Advances in Nanomaterials for Sensor Applications | Alagappa University, Karaikudi |
| 32. | Efficient mesoporous SO42−/Zr-KIT-6 solid acid catalyst for green diesel production from esterification of oleic acid | 26th December 2013 | Nation conference on Recent trends in Chemical, Energy and Environmental Engineering | SSN college of Engineering, Chennai |
| 33. | Production, partial purification and characterization of enzyme cocktail from Tricoderma citrinoviride AUKAR04 through solid-state fermentation | 26th December 2013 | Nation conference on Recent trends in Chemical, Energy and Environmental Engineering | SSN college of Engineering, Chennai |
| 34. | Comparative studies on Ethanol production efficiency using Zymomones moliths Erwiaia carotouora of saccharomusics cervisre | 13-14th September 2013 | National conference on Transfigures in Bioscience and Technology | Madha Engineering College, Chennai |
| 35. | Technology exhibition | 13-14 may 2013 | Innovation in the Technology exhibition | CTDT, Anna university, Chennai |
| 36. | Adsorption of Toxic Pollutants from wastewater | 2nd August 2013 | One day national conference on recent advancements in | SSN college of Engineering, Chennai |

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| | | | Adsorption Science and Technology | |
| 37. | Crystal Growth | 20-22th December 2012 | 24th National seminar on Crystal Growth | Anna University, Chennai |
| 38. | Removal of Cu (II) and Cr (III) ions from Aqueous Solutions by Adsorption onto acid activated Satamia verticineto carbon | 25th and 26th September 2012 | National Conference on Transfigures in Bioscience and Technology | Madha Engineering College, Chennai |
| 39. | Innovations in Physics and Chemistry | 25th February 2012 | One day national conference on Innovations in Physics and Chemistry | Tejaa Shakthi Institute of Technology for Women, Coimbatore |
| 40. | Sustainable water resource management | 20-21 January 2012 | National seminar on sustainable water resource management | SSN college of Engineering, Chennai |
| 41. | Green Chemistry for Greener Environment | 18 February 2010 | National seminar on Green Chemistry for Greener Environment | Velammal Engineering College, Chennai |
| 42. | Nanotechnology: Current Approaches and Applications | 5-6th February 2010 | National conference on Nanotechnology: Current Approaches and Applications | Sri Paramakalyani Centre for Environmental Science |
| 43. | Material Science | 9-10th October 2009 | National conference on Material Science | Annamalai University, Chidambaram |
| 44. | Vehicle Vibration Problems and their Solutions | 23-25 February 2006 | Short term course certificate | Anna university, Chennai |
| 45. | Rural Development | 10 March 2006 | One day seminar on technologies for development and NSS exhibition | Anna university, Chennai |
| 46. | Energy Management | 24-26 February 2006 | Effective energy management through energy audit | Anna university, Chennai |
| 47 | Emerging Trends in Industrial Biotechnology | 17-18th February 2006 | National seminar on Emerging Trends in Industrial Biotechnology | Vivekanandha College of Engineering for Women |

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| 48. | Waste management | 9 February 2006 | One day seminar on waste managment | Anna university, Chennai |

**PATENTS**

| S. No. | Title of the patent/ invention | Patent Application No. & Date | Filed | Published | Awarded | National / International | Quantum of revenue generated (Rs. in lakhs) |
|---|---|---|---|---|---|---|---|
| 1. | Removal of Mn using nitrogen doped polaimethineamides | 202041048815 A & 27/11/2020 | - | Yes 27/11/2020 | Yes | National | 2,00,000 |
| 2. | A Process of preparation of nitrogen doped polaimethineamides and product thereof | 202041048816A & 27/11/2020 | - | Yes 27/11/2020 | Yes | National | 2,00,000 |
| 3. | Device for measuring through plane electrical property of materials used in polymer electrolyte Membrane fuel cell | 318755 15/06/2018 | Yes | - | - | National | - |

**BOOKS**

| S. No. | Publication | National Publishers (A) | International publishers (B) | Total Numbers (A+B) |
|---|---|---|---|---|
| 1 | Number of Text/ Reference Books authored as **Single author** / **First Author** (Pl. specify) | 06 | - | 06 |
| 2 | Number of Text/ Reference Books authored as **Co-author** | 01 | - | 01 |
| 3 | Number of Books edited as | - | - | - |

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| | **First Editor** | | | |
| 4 | Number of Books edited as one of the Editors (Pl. specify) | - | - | -- |
| 5 | Number of Conference Books edited as Single / one of the Editors (Pl. specify) | - | - | - |

**CHAPTERS**

| S. No. | Authors' Name | Title of Book | Name of the Publisher | Year | Number of Citations |
|---|---|---|---|---|---|
| 1 | T. Ramya1, L. Vidhya, S. Vinodha, D. Anuradha, S. Sivanesan | Graphene Modified Electrochemical Sensors for Toxic Chemicals | Material Research Foundations | 2020 | |
| 2 | S. Sivanesan, K.V. Thiruvengadaravi, V.Sathyaselva Bala | Biodiesel preparation from non-edible oils | Nova Science Publishers | 2019 | |
| 3 | M.P. Premkumar, K.V. Thiruvengadaravi, P.S. Kumar, J. Nandagopal and **S. Sivanesan** | Environmental Contaminants, Energy, Environment, and Sustainability- Eco-Friendly Treatment Strategies for Wastewater Containing Dyes and Heavy Metals | Springer Nature Singapore Pte Ltd. | 2018 | 17 |
| 4 | M. AnilKumar, P. Baskaralingam, AR. Aathika and S. Sivanesan | Waste Bioremediation-Role of Bacterial consortia in Bioremediation of Textile Recalcitrant compounds | Springer Science+ Business Media Singapore Pte Ltd | 2018 | 07 |