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Nadu



Present Position

Associate professor, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai from December-2014.

Present Additional Responsibility

- Student Counsellor, Department of Chemical Engineering, Anna University, Chennai from August-2015.

Previous Additional Responsibility

- Chief Superintendent, Pg Examinations, Department of Chemical Engineering, Anna University, Chennai during May-2016 and May-2016.
- Chief Superintendent, Pg Examinations, Department of Chemical Engineering, Anna University, Chennai during November-2015 and January-2016.

Other Employment

- Assistant Engineer, Tamil Nadu Pollution Control Board for 2.5 years.
- Research Associate, National Institute of Technology, Tiruchirappalli for 3 years.
- Lecturer, St Peters Engineering College for 5 years.
- Lecturer, Vel Tech High Tech engineering College for 0.5 years.

Degree

- ❖ M.Tech. in CHEMICAL ENGINEERING , Vellore Institute of Technology, Vellore, VIT University (2002 - 2004).
- ❖ B.Tech. in CHEMICAL ENGINEERING , Erode Sengunthar Engineering College, Bharathiar University (1998 - 2002).

Research Degree

- ❖ Ph.D. in Heat Transfer from Faculty of Technology, National Institute of Technology, Tiruchirappalli, Tiruchirappalli (2009 - 2012).
Title: Heat Transfer Characteristics of Nanofluids in a Coiled Agitated Vessel .

Area of Specialisation

- Heat Transfer in nanaofluids
- Computational Modeling

Membership in Professional Organization

- Indian Institute of Chemical Engineers
- Indian Society for Technical Education

Research Guidance

Number of Ph.D Scholars Guiding : 5
Number of M.E./ M.Tech. Projects : 6
Guided
Number of M.E./ M.Tech. Projects : 6
Guiding

Papers Published in Journals

Research Papers Published in International Journals : 12
Research Papers Published in National Journals : 0

1. M. Arivazhagan, S. Logeswaran, V. T. Perarasu, "Heat Transfer Studies and Cost Analysis of a Shell-and-Tube Heat Exchanger using Aluminum Chips as Porous Medium", Heat Transfer Research, published by Begellhouse. Vol. 42, Issue 7, pp. 677-687 (2011).
2. V. T. Perarasu, M. Arivazhagan, P. Sivashanmugam, "Heat Transfer Studies in Coiled Agitated Vessel with Varying Heat Input", International Journal of Food Engineering, published by Berkeley Electronic Press. Vol. 7, Issue 4, pp. 1-13 (2011).
3. M. Arivazhagan, Y. Vijayageetha, V. T. Perarasu, "Removal of Rhodamine B from synthetic waste water by electro-coagulation with and without adsorbent", World Academy of Science, Engineering and Technology, published by World Academy of Science,. Vol. 58, pp. 1084-1091 (2011).
4. V. T. Perarasu, M. Arivazhagan, P. Sivashanmugam, "Heat Transfer of TiO₂/Water Nanofluid in a Coiled Agitated Vessel with Propeller", Journal of Hydrodynamics, published by Elsevier. Vol. 24, Issue 6, pp. 942-950 (2012).

5. Haritha Muralidharan, N. M. Hariharan, V. T. Perarasu, P. Sivashanmugam, S. Kasthuriengan, "Computational fluid dynamics simulation of open ended thermoacoustic prime mover with straight and tapered resonator", HVAC&R Research, published by Taylor & Francis. Vol. 19, pp. 208-212 (2013).
6. V. T. Perarasu, M. Arivazhagan, P. Sivashanmugam, "Experimental and CFD Heat Transfer Studies of Al₂O₃-Water Nanofluid in a Coiled Agitated Vessel Equipped with Propeller", Chinese Journal of Chemical Engineering, published by Elsevier. Vol. 21, Issue 11, pp. 1232-1243 (2013).
7. V. T. Perarasu, M. Arivazhagan, P. Sivashanmugam, "Heat Transfer Characteristics of TiO₂/Water Nanofluid in a Coiled Agitated Vessel Provided with Disk Turbine Agitator", Chemical Engineering Communication, published by Taylor & Francis. Vol. 200, pp. 783-797 (2013).
8. V. T. Perarasu, M. Arivazhagan, P. Sivashanmugam, "CFD modelling study of heat transfer in a coiled agitated vessel", Progress in Computational Fluid Dynamics, An International Journal, published by Inderscience. Vol. 14, Issue 3, pp. 177-188 (2014).
9. Haritha Muralidharan, N.M. Hariharan, V.T. Perarasu, P. Sivashanmugam, "CFD simulation of thermoacoustic heat engine", Progress in Computational Fluid Dynamics, An International Journal, published by Inderscience. Vol. 14, Issue 2, pp. 131-137 (2014).
10. R. Udayabhaskar, R. V. Mangalaraja, V. T. Perarasu, Saeed Farhang Sahlevani, B. Karthikeyan, "Effect of Graphene on the Structural and Optical Properties of Ceria:Graphene Nanocomposites", International Journal of Materials and Metallurgical Engineering, published by World Academy of Science and Technology. Vol. 14, Issue 3, (2018).
11. R. Udayabhaskar, R.V. Mangalaraja, Saeed Farhang Sahlevani, V. T. Perarasu, B. Karthikeyan, David Contreras, M.A. Gracia-Pinilla, "Graphene induced band gap widening and luminescence quenching in ceria:graphene nanocomposites", Journal of Alloys and Compounds, published by Elsevier. Vol. 770, pp. 1221-1228 (2019).
12. Vishnuprasad. S, Haribabu. K, V. T. Perarasu, "Experimental study on the convective heat transfer performance and pressure drop of functionalized graphene nanofluids in electronics cooling system", Heat and Mass Transfer, published by Springer. (2019).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 10
Research Papers Presented in National Programmes : 4

1. V. T. Perarasu, P. Kumar, "CFD modeling of hydrodynamics in a Liquid- Solid Circulating Fluidized Bed" presented in a International level conference on 8th International conference on circulating fluidized beds, Hangzhou, China from 10-May-2005 to 13-May-2005.
2. S. Thenesh Kumar, V. T. Perarasu, A. M. Saravanan, B. Ayyappan, "Hydrodynamic studies on decolorization of synthetic dye effluent in Packed Bed Reactor (PBR)" presented in a National level conference on National Conference on Recent Advances in Chemical Engineering, organised by SRM University, Chennai, Chennai, India from 12-Oct-2007 to 12-Oct-2007.

3. M. Arivazhagan, Y. Vijayageetha, V. T. Perarasu, "Removal of Rhodamine B from synthetic waste water by electro-coagulation with and without adsorbent" presented in a International level conference on International conference on Civil, Environmental and Chemical Engineering, organised by World Academy of Science & Technology, Bali, Indonesia from 26-Oct-2011 to 28-Oct-2011.
4. R. Madhu Nisha, V. T. Perarasu. P. Sivashanmugam, "CFD Studies on heat transfer studies of aluminum oxide-ethylene glycol nanofluids in a coiled agitated vessel" presented in a International level conference on International Conference on Green Technology for Environmental Pollution Prevention and Control, organised by National Institute of Technology, Tiruchirappalli, Tiruchirappalli, India from 27-Sep-2014 to 29-Sep-2014.
5. S. Arun, R. Madhu Nisha, V. T. Perarasu. P. Sivashanmugam, "CFD Simulation of Heat Transfer Studies of Nanofluids in a coiled Agitated Vessel using Turbine Agitator" presented in a International level conference on International Conference on Green Technology for Environmental Pollution Prevention and Control, organised by National Institute of Technology, Tiruchirappalli, Tiruchirappalli, India from 27-Sep-2014 to 29-Sep-2014.
6. S. Arun, R. Madhu Nisha, V. T. Perarasu. P. Sivashanmugam, "CFD Heat Transfer Studies of Nanofluids in a Coiled Agitated Vessel" presented in a International level conference on International Conference on Advances in Chemical Engineering and Technolgy, organised by TKM College of Engineering, Kollam, Kerala, Kollam, India from 16-Oct-2014 to 18-Oct-2014.
7. J. Emmanuel Dhinakaran, S. Keerthana, V. T. Perarasu, R. Saravanathamizhan, "Enhancement of Solid Liquid Mass Transfer using Ultrasonification" presented in a National level conference on CHEMCON 2016, Chemical Engineering Towards Sustainable Development, organised by Anna University, Chennai, India from 27-Dec-2016 to 30-Dec-2016.
8. Perarasu V T, Arivazhagan M, Sivashanmugam P, Saravanathamizhan R and Lakshmanan K, "Parametric optimization of heat transfer in a coil agitated vessel with TiO₂/water nanofluid using RSM" presented in a International level conference on 3rd International Conference on Recent Advancements in Chemical, Environmental & Energy Engineering, organised by SSN College of Engineering, , Kalavakkam, India from 15-Feb-2018 to 16-Feb-2018.
9. Perarasu V T, Vidhya Shankaran N R and Lakshmanan K, "Green House Gas Accounting Through Energy Optimization in Educational Institutes" presented in a International level conference on International Conference on Energy, Environment and Industrial Safety (ICEEIS) SALVATIO '18, organised by Department of Applied Science & Technology, AC Tech Campus, Anna University., Chennai, India from 22-Feb-2018 to 23-Feb-2018.
10. Nithya Sivakami G, V T Perarasu, Sakthivel Murugan S, "Study on Suitable Electrode for Energy Harvesting using Galvanic Cell in Seawater" presented in a International level conference on 4th International Conference in Ocean Engineering (ICOE 2018), organised by Indian Institute of Technology Madras, Chennai, Chennai, India from 22-Feb-2018 to 23-Feb-2018.
11. Nithya Sivakami G, V. T. Perarasu, Gnana Prakash D, S Sakthivel Muragan, "Energy Harvesting Using Hybrid Seawater Activated Batteries" presented in a International level conference on 2nd International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2018), organised by Madras University, Chennai, India from 15-Mar-2018 to 17-Mar-2018.

12. Nithya Sivakami G, V. T. Perarasu, S Sakthivel Muragan, "Energy Harvesting of Seawater Activated Batteries for Operating Underwater Electronic Devices" presented in a National level conference on National Conference on Information and Communication Technology, NCICT, organised by SSN College of Engineering, Kalavakkam, India from 06-Apr-2018 to 06-Apr-2018.
13. Mathew Devaraj N and V. T Perarasu. , "Heat Transfer Enhancement Analysis of Nanofluids using CFD" presented in a International level conference on 4th International Conference on Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE – 2019), organised by SSN College of Engineering, Kalavakkam, India from 14-Feb-2019 to 15-Feb-2019.
14. Nagarajan Arumugam, V. T. Perarasu, Satyanarayana N. Gummadi, "Recombinant production and characterization of Vibrio cholerae L-Asparaginase in E. Coli" presented in a National level conference on National Conference on Biochemistry and Therapeutics of Diabetes and Cancer Treatment & Challenge (BTDCTC-2019), organised by Loyola College (Autonomous), Chennai, India from 28-Feb-2019 to 01-Mar-2019.

Programme Organized

1. Organizing Member, National level conference on "National Conference on Recent trends in Chemical Engineering" from 02-Apr-2007 to 04-Apr-2007.
2. Programme Coordinator, National level Short Course on "Chemistry related problems in Thermal Power Stations" from 28-Sep-2015 to 30-Sep-2015.
3. Programme Coordinator, National level Short Course on "Mitigation of Corrosion in Coastal Power Station" from 30-Aug-2016 to 01-Sep-2016.
4. Treasurer, International level conference on "CHEMCON 2016, Chemical Engineering Towards Sustainable Development" from 27-Dec-2016 to 30-Dec-2016.
5. Organizing secretary, National level seminar on "Industrial Safety Health and Environment (ISHE)" from 19-Apr-2017.
6. Organizing Secretary, National level seminar on "Recent Trends in Chemical, Food, Energy, and Environmental Engineering (CoFEEE '18)" from 15-Mar-2018 to 16-Mar-2018.

Programme Attended

1. Attended a National level seminar on "Emerging Application of nanofluids in mechanical Engineering" organized by K.S.Rangasamy College of Technology, Tiruchengode , Tiruchengode, India from 15-Mar-2011 to 16-Mar-2011.
2. Attended a National level Short Course on "Phytoremediation Technology for Industrial Hazardous Disposal Sites" organized by Tamil Nadu Pollution Control Board, Chennai, India from 27-Feb-2014 to 28-Feb-2014.
3. Attended a National level Short Course on "Urgent Need for bringing in Quality in the system of Higher Education" organized by IQAC, Anna University, Chennai, India from 18-Feb-2015 to 19-Feb-2015.

4. Attended a National level Short Course on "10th Summer School Programme on Petroleum Refining & Petrochemicals" organized by Petrotech in collaboration with Indian Oil Corporation Ltd-R&D and Indian Oil Institute of Petroleum Management, Gurgaon, India from 01-Jun-2015 to 05-Jun-2015.
5. Attended a National level Short Course on "The State of the Art- Analytical Instruments" organized by ACT Campus, Anna University, Chennai, India from 26-Oct-2015 to 30-Oct-2015.
6. Participated in a International level workshop on "Third International Workshop on Advanced Functional Nanomaterials (TIWAN -2015)" organized by Centre for Nanoscience and Technology & Centre for International Affairs, Anna University, Chennai, India from 16-Dec-2015 to 18-Dec-2015.
7. Participated in a National level workshop on "Orientation Workshop on Outcome Based Education and Accreditation for Programme Evaluators (PEVs)" organized by IIT Madras, Chennai, India from 12-Nov-2016 to 12-Nov-2016.
8. Participated in a National level workshop on "Scope for R&D Projects and Proposal Preparation" organized by Centre for Technology Development and Transfer, Anna University, Chennai, India from 12-May-2017 to 12-May-2017.
9. Participated in a International level conference on "International level conference on International Conference on Energy, Environment and Industrial Safety (ICEEIS) SALVATIO '18" organized by Department of Applied Science & Technology, AC Tech Campus, Anna University, Chennai, India from 22-Feb-2018 to 23-Feb-2018.
10. Attended a National level seminar on "National Seminar on Clean Healthy Environment by Sustainable Technologies, CHEST '18" organized by Department of Chemical Engineering, AC Tech Campus, Anna University, Chennai, India from 27-Mar-2018 to 28-Mar-2018.
11. Attended a National level Short Course on "AICTE Approved Two Week Faculty Development Training Program on "Induction Program for Students" organized by Anna University, Chennai, India from 18-Jun-2018 to 29-Jun-2018.
12. Attended a National level Short Course on "AICTE - ISTE Short Term Training Program on Recent Advances in Industrial Pollution Control (RAIPC-18)" organized by SRM Institute of Science and Technology, Kattankulathur, Chennai, India from 12-Nov-2018 to 16-Nov-2018.
13. Participated in a National level workshop on "One Day National Workshop on e-Learning and MOOCs in Higher Education" organized by Guru Angad Dev Teaching Learning Centre of MHRD, University of Delhi and Anna University, Chennai, India from 14-Sep-2019 to 14-Sep-2019.

Invited Lectures

1. Delivered a Lecture on "Energy Efficient Nanofluids for Enhanced Heat Transfer in an Agitated Vessel " in Nanomaterials for Energy & Environment organized by National Institute of Technology, Tiruchirappalli, Thuvakudi, Tiruchirappalli (18-Jun-2016).
2. Delivered a Lecture on "Use of Nanofluids for Heat Transfer Applications " in Guest Lecture organized by VIT University, Vellore, Vellore (05-Aug-2016).

3. Delivered a Lecture on "Transport Phenomena in Chemical Engineering " in Guest Lecture organized by Erode Sengunthar Engineering College, Erode, Thudupathi, Erode (12-Aug-2016).
4. Delivered a Lecture on "Stoichiometry and Fluid Mechanics" in Faculty Development programme organized by Sree Sastha Institute of Engineering and Technology, Chembarambakkam, Chennai - 600123 (26-May-2017).
5. Delivered a Lecture on "Fluid Mechanics for Chemical Engineers" in Faculty Development Programme organized by Agni College of Technology, Thalambur, Chennai - 600 130 (13-Jun-2019).