

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr.P.Sivashanmugam working as Professor and Head in Chemical department in National Institute of Technology, Tiruchirappalli-620015, India with the 24 years of teaching and research experience. He is doing research in the area of process Engineering, Biotechnology, Bioprocess engineering and Environmental Engineering. He produced 8 Ph.Ds, guided 46 M.Tech thesis, published 61 papers in peer reviewed International Journals and 18 papers in peer reviewed national Journals and 63 papers in International and national conference. He has written a book on Basics of Environmental Engineering and two book chapter. He has also got many R and D projects and MODROB projects. He has undergone several teaching and research training in attending workshops, short term courses and has also organized several short term courses and workshops as coordinator. He visited NUS Singapore, Indonesia, Malaysia and Russia in Academic training and conferences. He involved in many administrative activities in the department as well as in the institute.

1. Name: Dr.P.Sivashanmugam
2. Designation: Professor
3. Office Address: Department of Chemical Engineering,
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Tiruchirappalli – 620 015, Tamil Nadu, India.
4. Telephone (Direct) (Optional):
Telephone : + 91 431 2503106 Extn (Optional):
Mobile (Optional):
5. Email (Primary): psiva@nitt.edu Email (Secondary) : -
6. Field(s) of Specialization:
 - 1) Process Engineering, Modeling and Control
 - 2) Thermal Engineering and Fluid Technology
 - 3) Biochemical and Bioprocess Technology
 - 4) Bioenergy, Environmental Engineering and

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Nanotechnology

7. Employment Profile

Job Title	Employer	From	To
REC, Tiruchy	Lecturer	14/10/1992	2/2/1998
REC/NIT, Tiruchy	Assistant Professor	3/2/1998	1/7/2007
NIT, Tiruchy	Professor	1/7/2007	till date

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	REC, Tiruchy (Bharathidasan University)	2000		Chemical Engineering
M.E. / M.Tech.	REC, Tiruchy (Bharathidasan University)	1988	First class with Distinction	Chemical Engineering
B.E. / B.Tech.	Annamalai University India	1985	First class	Chemical Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
warden	Emerald Hostel, NIT, Trichy	2.0 years	
warden	Ruby Hostel, NIT, Trichy	1.5 years	
Time table committee convener	NIT, Trichy	2 years	
Faculty adviser	Chemical Engineering from first to final year, NIT, Trichy		
PAC Chairman	M.TECH Department of Plant Design, NIT, Trichy	2006	
Board of study member	Both UG and PG syllabus in the Department of Chemical Engineering, NIT, Trichy	2006	
PAC Chairman	for UG II year, Department of Chemical Engineering, NIT, Trichy	2007	
In-charge of Modernized Technical Analysis Lab	Department of Chemical Engineering, NIT, Trichy	2007	2008
PAC Chairman	for M.TECH- II year,	2011	2012

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	Department of Chemical Engineering, NIT, Trichy		
PAC Chairman	for M.TECH- II year, Department of Chemical Engineering, NIT, Trichy	2012	2013
Scrutiny cum verification committee members	for APBS/CAS	2010	2011
School committee members		2007	2011
committee member for evolving comprehensive grading system	NIT, Trichy	2011	
Observer in temporary faculty recruitment	Mechanical department, NIT, Trichy	2011	2012
Refreshment committee member	Institute sports, NIT, Trichy	2012	
Senate nominee and senate observer for results finalization in Ph.D students selection	Department of Chemical Engineering, NIT, Trichy	2007	till date
Initiated activity of installing overhead water tank in Research lab	Department of Chemical Engineering, NIT, Trichy	2012	
Initiated activity to develop and Improve all the experiments under MODROP Scheme	Chemical Reaction Engineering lab, Department of Chemical Engineering, NIT, Trichy	2007	
Initiated activity to add five additional experiments namely Batch Reactor –I, Batch Reactor –II, Adiabatic Reactor, Mixed flow followed by plug flow reactor and mixed flow reactor	Chemical Reaction Engineering lab, Department of Chemical Engineering, NIT, Trichy	2008	
Invitation and announcers committee member on Annual sport day	NIT, Trichy	2011	
committee member for evolving the code of conduct in the senate meeting	NIT, Trichy	2012	
Secretary in the Eight Convocation steering committee for security arrangements and overall monitoring committee	NIT, Trichy	2012	
Administrative council member	Department of Chemical Engineering, NIT, Trichy	2012	till date
Campus QIP Co-ordinator	NIT, Trichy	2012	till date
Staff advisor for LEOCLUB	NIT, Trichy	2012	2015
Head of the Department	Department of Chemical Engineering, NIT, Trichy	27.11.2015	till date

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10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Expert member	UPSC selection	--	--
Expert member	R and D project Evaluation in STEP-TERC and DST	--	--
Expert member	NBA accreditation team	2009	Till data

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2008	Best teacher award	NIT, Trichy
2014	Golden Jubilee Distinguished Alumni award	NIT, Trichy

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
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13. Details of Academic Work

(i) Curriculum Development

Developed Curriculum of B.Tech and M.Tech for the subjects taught and being member of board of studies in framing syllabus

(ii) Courses taught at Postgraduate and Undergraduate levels

Under graduate

- (i) Environmental Engineering
- (ii) Inorganic Chemical Technology
- (iii) Material Science and Technology
- (iv) Safety in Chemical Industries
- (v) Computer Aided Design
- (vi) Process Equipment Design –I
- (vii) Process Equipment Design II
- (viii) Chemical Reaction Engineering –I
- (ix) Chemical Reaction Engineering –II

Post graduate

- (x) Process Equipment design
- (xi) Chemical Reactor Design and Analysis
- (xii) Computer Aided Design
- (xiii) Chemical Process Design

(iii) Projects guided at Postgraduate level

- (i) Fermentation of Citric acid from Commercial Sugar by *Aspergillus Niger*

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- (ii) Studies on Flow Pattern and Pressure drop for the tube fitted with twisted tape and Kenics Element
- (iii) Studies on Circulating Fluidized Bed Drier
- (iv) Studies on Energy Audit in Combined Cycle Power Plant
- (v) Studies on Fouling of Heat Exchangers and its Mitigation Technique
- (vi) Studies on Energy Audit in Large Utility Boiler
- (vii) Studies on Hydrodynamics of Circulating Fluidized Bed Drier
- (viii) Process Integration study of Ammonia plant
- (ix) Studies on Denitrification using Fluidized Bed
- (x) Studies on Removal of Mercury –II by adsorption
- (xi) Studies on optimization of batch digester in Kraft pulp mill
- (xii) Experimental studies on Agitation
- (xiii) Experimental studies on Etherification of Acetic acid with N-Butyl Alcohol
- (xiv) Multi-phase flow Simulation of Liquid-Solid Fluidized Bed by using CFD-CFX
- (xv) Studies on Hydrodynamics of Annular Circulating Fluidized Bed with Dhal particles, Jan 2005
- (xvi) CFD Simulation of Heat transfer in Laminar Flow through a circular tube with and without twisted tape internals, Jan 2005
- (xvii) Studies on Hydrodynamics of Annular Circulating Fluidized Bed with Dhal particles, June 2006
- (xviii) CFD Simulation of Heat transfer in Laminar Flow through a circular tube with and without twisted tape internals, June 2006
- (xix) Ohmic heating in Parboiling of Paddy and Energy Audit, June 2006
- (xx) Design of maximum Power point tracker for Photovoltaic Powered Water Pumping System
- (xxi) CFD Simulation of Heat transfer Augmentation using varying width of twisted tape in laminar flow with power law fluid
- (xxii) Fuzzy based control of Pressure
- (xxiii) Enhancement of heat exchanger control using optimized PID controller
- (xxiv) Analog implementation of and controller design of MIMO system
- (xxv) Experimental and Simulation studies on power consumption in mixing using energy saving turbine agitator using water
- (xxvi) Pressure drop studies in helical coil fitted with inserts
- (xxvii) Experimental and Simulation studies on power consumption in mixing using energy saving turbine agitator using glycerol
- (xxviii) CFD simulation of heat transfer augmentation using helical screw inserts
- (xxix) Studies on heat transfer augmentation in a circular tube fitted with straight half twist inserts
- (xxx) Studies on heat transfer augmentation in a circular tube fitted with straight full twist inserts
- (xxxi) Studies on heat transfer augmentation in a circular tube fitted with straight full twist inserts with V cuts and varying twisted tape width
- (xxxii) CFD simulation of Thermoacoustic Prime mover
- (xxxiii) Treatment of Tanning Effluent by Electrocoagulation and sonication (Dec2012)

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- (xxxiv) Catalytic wet air oxidation studies of Phenol in tricked bed red reactors (Dec2012)
- (xxxv) Effects of Different Resonator Lengths on the performance of twin prime mover –CFD studies
- (xxxvi) CFD Simulation of twin thermoacoustic prime mover by varying composition of has mixture
- (xxxvii) Effects of temperature gradient on twin thermoacoustic prime mover- CFD studies (May 2014)
- (xxxviii) CFD Heat transfer studies of Carbon nano tube –water nano fluids in coiled agitated vessel (May 2014)
- (xxxix) Formation of aromatics in Claus furnace (Dec 2014)
- (xxxxi) CFD studies on heat transfer characteristic of Al₂O₃ –Ethylene glycol nano fluids in a coiled agitated vessel (Dec 2014)
- (xxxxii) Formation of aromatics inside Claus furnace (May 2015)
- (xxxxiii) Experimental and Numerical studies on heat transfer characteristics of graphite-water micro fluids in a coiled agitated vessel (May 2015)
- (xxxix) Experimental and Numerical studies on effect of coil fluid flow rate on heat transfer (Dec 2015)
- (xxxx) Hydrogen production using Claus process (Dec 2015)
- (xxxxi) Studies on green synthesis of silver nanoparticles towards medicinal applications (June 2016)
- (xxxxii) Hydrogen production using Claus process using improved process (June 2016)

(iv) Other contribution(s)

Developed technical Analysis lab Manual, Chemical reaction Engineering lab under MODROB, Process modeling simulation lab, all under graduate labs, as HOD of chemical department

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
MODROB project	MHRD	---	2006	Completed
R and D Project - Studies on Emulsion Liquid Membrane Extraction	MHRD	07/03/2003	07/03/2006	Completed
R and D Project- Design and Development of Embedded System for Rate change of Pressure Measurement	MHRD	---	2006	Completed
R and D Project- Heat transfer Augmentation studies in Heat Exchanger	CSIR	---	2010	Completed
Experimental and Theoretical aspects of Ultrasound in Food Emulsion	Indo-Russia	June 2015	--	Ongoing

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	joint research project			
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15. Number of Ph.Ds guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
S.Suresh	Heat transfer Augmentation studies in a circular tube fitted with helical screw inserts	Supervisor	2006
R.Kumar	Real time studies of flow sensor less measurement and control	Supervisor	2007
N.Kanagaraj	Studies on intelligent pressure control	Supervisor	2008
P.K.Nagarajan	Studies on Heat transfer Augmentation in a circular tube fitted with Right-Left helical twist insert	Supervisor	2009
N.M.Hariharan	Studies on Thermoacoustically Driven Thermoacoustic Refrigerator	Supervisor	2013
R.Manikandan	Studies on Biodegradation of Chlorinated Aromatic Hydrocarbon	Co-Supervisor	2008
V.T.Perarasu	Heat transfer characteristics of Nano fluids in a coiled agitated vessel	Co-Supervisor	2013

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Attended many work shops

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

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Safety, Environment Management Emerging trends	National	9-21 st June 2003	Co-ordinator	NIT, Trichy
Energy Management and Non- conventional Energy	National	22 Nov to 4 Dec 2004	Co-ordinator	NIT, Trichy
Emerging Technologies for Biotechnology and Chemical Processes	National	31 Aug to 1 Sep 2012	Co-ordinator	NIT, Trichy
RESEARCH Avenues in mult-interdisciplinary area of Chemical Engineering	National	24 Sep to 26 Sep 2012	Co-ordinator	NIT, Trichy
Methodology of preparation of technical interview for campus placement for prefinal year students	National	13 Mar to 14 Apr 2013	Co-ordinator	NIT, Trichy
Safety in Chemical Process industry	National	15 July,2006	Co-ordinator	NIT, Trichy
Recent Advances and Challenges of Biotechnology Processes	National	15-16 th Dec 2006	Co-ordinator	NIT, Trichy
Recent trends in wastewater treatment	National	27 th Feb 2008	Co-ordinator	NIT, Trichy
Two weeks ISTE Workshop on Engineering Thermodynamics conducted by IIT,Mumbai under the National Mission on Education through ICT	National	11-21 st Dec 2012	Co-ordinator	NIT, Trichy
R and D Proposals to National and International funding for Researchers- Approach and Preparation	National	16-17 Aug 2013	Co-ordinator	NIT, Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Environment of Non-convective Energy	27/02/2009	Anna University Tiruchirappalli-620 024
Key note speaker - International conference on Smart technologies for materials, communications, controls, computing and energy	5-7/Jan/2010	

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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	Indian society for Technical Education	LM13223
Life member	Institution of Engineers	M120536-0
Life member	Indian Institute of Chemical Engineers	LM 26927

20. Academic Foreign Visits

Country	Duration of Visit	Programme
NUS Singapore	1 to 30 November 2005	Under TEQIP Faculty training program
Pali, Indonesia	November 2011	Paper presentation in International conferences
Moscow state university, Russia	21.11.2016 to 25.11.2016	Dst sponsored Indo-Russia collaborative project visit

21. Publications

Refereed Research Journals: **PUBLICATIONS- INTERNATIONAL JOURNAL**

Author(s)	Title of Paper	Journal	Volume (No.)	Page No.	Year	Impact Factor of the Journal (Optional)
Sivashanmugam. P, and Sundaram.S	Improvement in Performance of Heat Exchanger Fitted with Twisted Tape	American Society of Civil Engineers Journal of energy engineering	Vol. 1	pp. 35	1999	
Sivashanmugam. P. and Sundaram.S	Hydrodynamics of Annular Circulating Fluidized Bed Drier	Journal of Powder Technology	Vol. 103	pp. 165-169	1999	2.75
Sivashanmugam. P. and Sundaram.S	RTD studies in Annular Circulating Fluidized Bed Drier	Journal of Powder Technology	Vol. 107	pp. 256-258	2000	2.75
Sivashanmugam. P and Sundaram.S	Hydrodynamics of Annular Circulating Fluidized Bed Drier with Course Sand	Journal of Bioprocess Engineering	-	-	2001	1.90

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	Particles					
Sivashanmugam P. and Sundaram.S	Hydrodynamics of Annular Circulating Fluidized Bed Drier with Fine Sand Particles	Journal of Powder Handling and Processing	Vol. 12(2),	pp. 157-160	2000	0.42
Sivashanmugam. P. and Sundaram.S	Hydrodynamics of Annular Circulating Fluidized Bed Drier with Green gram Particles	Journal of Powder Handling and Processing	Vol. 12(4)	pp. 379-382	2000	0.42
Kumaresan.T. Meera Sheriffa Begum, K.M. Sivashanmugam,P., Anantharaman, N. and Sundaram, S.	Experimental studies on Treatment of Distillery effluent by Emulsion Liquid Membrane Extraction	Chemical Engineering Journal	Vol 95	pp. 199-204	2003	5.310
Sivashanmugam, P and S Suresh	Experimental studies on heat transfer and friction factor characteristics in laminar flow through a circular tube fitted with helical screw-tape inserts	Journal of Applied Thermal Engineering	Vol. 26	pp. 1990-1997	2006	3.043
Sivashanmugam, P and S Suresh	Experimental studies on heat transfer and friction factor characteristics in laminar flow through a circular tube fitted with regularly spaced helical screw-tape inserts	Journal of Experimental Thermal and Fluid Science	Vol. 31(4)	pp.301-308	2007,	2.128
Sivashanmugam, P and S Suresh	Experimental studies on heat transfer and friction factor characteristics in turbulent flow through a circular tube fitted with helical screw-tape inserts	Journal of Chemical Engineering and Processing	Vol. 46(12)	pp. 1292-1298	2007	2.154
Sivashanmugam, P and S Suresh	Experimental studies on heat transfer and friction factor characteristics in turbulent flow through a circular tube fitted with regularly spaced helical screw-tape inserts	Journal of Applied Thermal Engineering	Vol. 27	pp. 1311-1319	2007	3.043
Sivashanmugam, P, and Nagarajan P.K	Experimental studies on heat transfer and friction factor characteristics in laminar flow through a circular tube fitted with right-left helical screw-tape inserts	Journal of Experimental Thermal and Fluid Science.	Vol. 32(1)	pp. 192-197	2007	2.128
Sivashanmugam, P,	Experimental studies on heat	Journal of	Vol.	pp.	2008	1.433

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and Nagarajan P.K	transfer and friction factor characteristics in turbulent flow through a circular tube fitted with right-left helical screw-tape inserts	Chemical Engineering Communication	195	977-987		
Manikandan R, Prabhu H.J, Sivashanmugam P	Studies on degradation of chlorinated aromatics by using immobilized cell crude extract of Pseudomonas aeruginosa	African Journal of Biotechnology	Vol. 6(11)	pp. 1338-1342	2007	0.573
Manikandan R, Prabhu H.J, Sivashanmugam P	Biodegradation of chlorobenzene using immobilized cell crude extract in packed column	African Journal of Biotechnology	Vol. 6(19)	pp. 2259-2266	2007	0.573
Sivashanmugam, P, and Arivazhagan M	Experimental studies on Parboiling of paddy by ohmic-heating	International Journal of Food Engineering	Vol. 4(1)	--	2008	0.712
Sivashanmugam, P, and Prabakar S	Simulation of an effect of a baffle length on the power consumption in an agitated vessel	International Journal of Food Engineering	Vol. 4(2)	--	2008	0.712
N. Kanagaraj, P. Sivashanmugam and S. Paramasivam	Fuzzy Coordinated PI Controller: Application to the Real-Time Pressure Control Process	Advances in Fuzzy Systems	Vol. (2008)	--	2008	
P. Sivashanmugam, N. Kanagaraj and R.Kumar	Experimental Studies on Pressure Control Using Intelligent PI Fuzzy Supervisory Approach	International Journal of Food Engineering	Vol. 4(2)	--	2008	0.712
N. Kanagaraj, P. Sivashanmugam and S. Paramasivam	Fuzzy Logic based Supervisory control scheme for Real Time Pressure Regulation	Journal of Control and intelligent systems	Vol. 37	pp. 160-169	2009	
N. Kanagaraj, P.Sivashanmugam and S. Paramasivam,	A Fuzzy Logic Based Supervisory Hierarchical Control Scheme for Real time Pressure Control	International Journal of Automation and Computing	Vol. 6(1)	pp. 88-96	2009	
P. Sivashanmugam, N. Kanagaraj and R.Kumar	A Robust Intelligent PID type Fuzzy Control Structure for Pressure Control	Chemical Engineering Communications	Vol. 196	pp. 291-304	2009	1.433
P. Sivashanmugam	Modeling of heat transfer augmentation in a circular	Chemical product and process	Vol. 3(1)	--	2008	

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	tube fitted with right-left helical inserts in laminar flow using CFD	Modeling				
Siva Rama Krishna , Govardhan Pathipaka and P.Sivashanmugam	Heat transfer and pressure drop studies in a circular tube fitted with straight full twist	Journal of Experimental Thermal and Fluid Science	Vol. 33	pp. 431–438	2009	2.128
P.Sivashanmugam and D.Ankamma Rao	CFD approaches for modeling of Energy saving turbine agitator; Comparison of Experimental data with simulated results	Journal of Scientific Research and Essays	Vol. 3	-	2008	
P. Sivashanmugam and S.Suresh	CFD Modeling and simulation of heat transfer augmentation in a circular tube fitted regularly spaced twist inserts in laminar flow using CFD	Journal of advances in Engineering science	Vol. 3(1)	-	2008	
P. Sivashanmugam	CFD Modeling of Heat Transfer Augmentation in a Circular Tube Fitted with Right-Left Helical Inserts in Turbulent Flow	<i>International Journal of Food Engineering</i>	Vol. 5(1)	-	2009,	0.712
Sandeep Pullabotala and P.Sivashanmugam	Experimental and CFD Modeling of effect of baffle cut on power consumption Volume	Journal Chemical product and process Modeling	Vol. 4(1)		2009	
N. Kanagaraj, P. Sivashanmugam and S. Paramasivam	A Simple Self-Tuning Scheme using Fuzzy Logic for a Non-Linear Pressure Regulating System	International Journal of Automation and Control	Vol. 4(3)	pp. 256-270	2010	
D.Ankamma Rao and P. Sivashanmugam	Experimental and CFD simulation studies on power consumption in mixing using energy saving turbine agitator	Journal Industrial and Engineering Chemistry	Vol. 16	pp. 157-161	2010	4.179
Manikandan R, Prabhu H.J, and Sivashanmugam P	Biodegradation of chlorobenzene using immobilized cell crude extract in packed column	African Journal of Biotechnology	Vol. 7(12)	pp. 2038-2042	2008	0.573
Gopalakrishna G., Sivakumaran N. and Sivashanmugam P	Enhancement of Heat Exchanger Control Using Improved PID Controller	Sensors & Transducers Journal	Vol. 107(8)	pp. 144-156	2009	
R. Kumar, and P.Sivashanmugam	Neuro and Fuzzy Computing Approach for the Flow	Sensors & Transducers	Vol. 109(10)	pp. 21-28	2009	

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	Sensorless Measurement	Journal				
P.K.Nagarajan and P.Sivashanmugam,	CFD simulation of heat transfer augmentation in a circular tube fitted with varying width right-left helical inserts with spacer	International Journal of Chemical Engineering research	Vol. 1(1)	pp. 1-11	2009	
Siva Rama Krishna , Govardhan Pathipaka and P.Sivashanmugam	Heat transfer and pressure drop studies in a circular tube fitted with straight half twist	International Journal of Chemical Reactor Engineering	Vol. 7	-	2009	0.759
Govarthan Pathipakka and P.Sivashanmugam	CFD simulation of heat transfer behavior of nanofluids in a uniformly heated circular tube fitted with helical inserts in laminar flow	Superlattices and Microstructures	Vol. 47(2)	pp. 349-360	2010	2.117
P.K.Nagarajan , Yagna Mukkamala and P.Sivashanmugam	Studies on heat transfer and friction factor characteristics of turbulent flow through a micro finned tube fitted with Left-right inserts	Applied Thermal Engineering	Vol. 30(13)	pp.166-1672	2010	3.043
Manikandan R, Prabhu H.J, Sivashanmugam P,CN.Pradeepa, Pankaj Shah	Optimisation of 2,4 Dichlorophenol degradable crude extracts produced by Pseudomonas Aeriginosa using Box behnken	Design, Nature and Science	Vol. 7(7)	pp. 117-128	2009	
C. Ahmed Basha,K.V.Selvaku mar,H.J.Prabhu , P.Sivashanmugam and Chang woo Lee	Degradation studies textile reactive dye by combined electrochemical, microbial and photo catalytic methods	Journal of separation and purification Technology	Vol. 79	pp. 303-309	2011	3.299
V.T.Perarasu , M.Arivazhagan , and P.Sivashanmugam	Heat transfer studies in coiled agitated vessel with varying heat input	International Journal of Food Engineering	Vol. 7(4)	-	2011	0.712
P.K.Nagaraja , and P.Sivashanmugam	Heat transfer enhancement studies in a circular tube fitted with right-left helical inserts with spacer	World Academy of Science, Engineering and Technology	Vol. 58	pp. 840-844	2011	
N. M. Hariharan, P.Sivashanmugam and S. Kasthuriengan	Influence of stack geometry and resonator length on the performance of thermoacoustic engine	Applied Acoustics	Vol. 73	pp. 1052-1058	2012	1.462
N. M. Hariharan,	Optimization of	Journal of	Vol.	pp.	2012	0.871

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P.Sivashanmugam and S. Kasthuriengan,	thermoacoustic primemover using response surface Methodology	HVAC&R Research	18(5)	890-903		
N. M. Hariharan, P.Sivashanmugam and S. Kasthuriengan,	Experimental and theoretical investigation of thermoacoustic prime mover	Journal of HVAC&R Research	Vol. 18(6)	pp.1112-1121	2012	0.871
V.T.Perarasu, M.Arivazhagan., P.Sivashanmugam	Heat transfer of TiO ₂ /water nanofluid in a coiled agitated vessel with propeller	Journal of Hydrodynamics	Vol. 24(6)	pp. 942-950	2012	0.776
V.T.Perarasu, M. Arivazhagan., P.Sivashanmugam,	Heat transfer Characteristics of TiO ₂ /water nanofluid in a coiled agitated vessel with Disk turbine agitator	Chemical Engineering Communications	Vol. 200(6)	pp. 783-797	2013	1.433
N. M. Hariharan, P.Sivashanmugam and S. Kasthuriengan	Effect of resonator length and working fluid on the performance of twin thermoacoustic heat engine – Experimental and simulation studies	Computers & Fluids	Vol. 75	pp. 51–55	2013	1.891
N. M. Hariharan P.Sivashanmugam and S. Kasthuriengan	Optimization of thermoacoustic refrigerator using response surface methodology	Journal of Hdrodynamics	Vol. 25(1)	pp. 72-82	2013	0.776
H.Muralidharan, N. M. Hariharan, V.T.Perarasu, P.Sivashanmugam and S. Kasthuriengan,	CFD Simulation of thermoacoustic heat engine	Progress in Computational Fluid Dynamics	Vol.14(2)	pp. 131 – 137	2014,	0.28
N. M. Hariharan, P.Sivashanmugam and S. Kasthuriengan	Influence of operational and geometrical parameters on the performance of twin thermoacoustic prime mover	International Journal of Heat and Mass transfer	Vol. 64	pp. 1183–1188	2013	2.85
N. M. Hariharan, P.Sivashanmugam and S. Kasthuriengan	Experimental investigation of a thermoacoustic refrigerator driven by a standing wave twin thermoacoustic prime mover	International Journal of Refrigeration	Vol. 36	pp. 2420-2425	2013	2.29
P.Maha Lakshmi and P.Sivashanmugam	Treatment of Oil tanning effluent by electrocoagulation: Influence of ultrasound and hybrid electrode on COD removal	journal of Separation and Purification Technology	Vol. 116	pp. 378–384	2013	3.29
V.T.Perarasu, M. Arivazhagan.,	Experimental and CFD Heat Transfer Studies of Al ₂ O ₃ -	Chinese Journal of Chemical	Vol. 21(11)	pp. 1232-	2013	1.20

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P.Sivashanmugam	WaterNanofluid in a Coiled Agitated Vessel Equipped with Propeller	Engineering		1243		
Ashutosh Nath Deva, C. Arun , G. Arthanareeswarana, and P. Sivashanmugam	Extraction of Peroxidase from waste <i>brassica oleracea</i> used for the treatment of aqueous phenol in synthetic waste water	Journal of Environmental Chemical Engineering	Vol. 2	pp. 1148–1154	2014	1.428 (SNIP)
N. M. Hariharan P. Sivashanmugam and S. Kasthuriengan,	Studies on Performance of Thermoacoustic Prime Mover	Experimental Heat Transfer	Vol. 28	pp. 267–281	2015	1.288
V.T.Perarasu, M. Arivazhagan., P.Sivashanmugam,	CFD modeling study of heat transfer in a coiled agitated vessel	Progress in Computational Fluid Dynamics	Vol. 14(3)	pp. 177-188	2014	0.28
C.Arun, and P.Sivashanmugam,	Investigation of biocatalytic potential of garbage enzyme and its influence on stabilization of industrial waste activated sludge	Process Safety and Environmental Protection	Vol. 9(4)	pp.471–478	2015	2.08
C.Arun and P.Sivashanmugam	Solubilization of waste activated sludge using a garbage enzyme produced from different preconsumer organic waste,	RSC Adv.	Vol. 5	pp. 51421-27	2015	3.29
C.Arun and P.Sivashanmugam	Identification and optimization of parameters for the semi-continuous production of garbage enzyme from pre-consumer organic waste by green RP-HPLC method	Waste management	Vol. (44)	pp. 28-33	2015	3.82
Shabin Mohammed, Abhijeet Raj, Ahmed Al Shoaibi , and P Sivashanmugam	Formation of polycyclic aromatic hydrocarbons in Claus process from contaminants in H ₂ S feed gas	Chemical Engineering Science	Vol. 137	pp. 91–105	2015	2.75
Olga Krasulya, Vladimir Bogush, Victoria Trishina, Irina Potoroko, Sergey Khmelev, Palani	Impact of acoustic cavitation on food emulsions	Ultrasonics Sonochemistry	Vol. (30)	pp. 98–102	2016	4.55

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Sivashanmugam, Sambandam Anandan						
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PUBLICATIONS- NATIONAL JOURNAL

Author(s)	Title of Paper	Journal	Volume (No.)	Page No.	Year	Impact Factor of the Journal (Optional)
Sivashanmugam. P. Sree Lakshmi and Sundaram.S.	Hydrodynamics of Annular Circulating Fluidized Bed Drier using Millet and Ragi Particles	Journal of Scientific and Industrial Research	Vol. 61	pp. 275-279	2002	
Bhuvaneshwari.S, Meera Sheriffa Begum K.M, Sivashanmugam P, Anantharaman N, Sundaram S	Seperation of L-Glutamic Acid by Emulsion Liquid Membrane Extraction	Journal of Scientific and Industrial Research	Vol. 62	pp. 329-333	2003	
Sivashanmugam. P. Sree Lakshmi and Sundaram.S.	Studies on Hydrodynamics of Annular Circulating Fluidized Bed Drier using Millet and Ragi Particles	Journal of Food Technology	Vol. 46(6)		2003	
Sivashanmugam. P	Drying studies in Annular Circulating Fluidised Bed Drier	Journal of Scientific and Industrial Research	Vol. 62	pp. 1067-1070	2003	
Sivashanmugam. P, and Sree Lakshmi	Studies on Hydrodynamics of Annular Circulating Fluidised Bed Drier with Millet-Ragi Particle Mixture	Journal of Indian Chemical Society	Vol. 80	pp. 1-4	2004	0.145
Venkatesan S, Meera Begum K.M, Sivashanmugam. P, and Anantharaman N	Extraction of L-Glutamic Acid by Emulsion Liquid Membrane Extraction	Journal of Indian Chemical Society	Vol. 81	pp. 264-266	2004	0.145
N.Kanagraj, P.Sivashanmugam and R.Kumar	Real Time of change of Pressure Measurement and Control	Journal of Scientific and Industrial Research	Vol. 66	pp.1 20-123	2007	
Kumar R , Sivashanmugam P and Palani ,	Recurrent Neuro Computing Approach for the Flow Sensorless Measurement and	Journal Instrument Society of India	Vol. 36(4)	pp. 267-275	2006	

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	Control					
Kumar R , Sivashanmugam P	Flow Sensorless Measurement and Control using soft computing	Journal Instrument Society of India	Vol. 37(2)	pp. 112-121	2007	
Amareesh Reddy Y, Arivazhagan M and Sivashanmugam, P	Decolorisation of Crystal violet dye and Congo red dye using Electrocoagulation	Indian Journal of Environmental Protection	Vol. 27(6)	pp. 516-526.	2007	
Mahesh G, Vivek Narayanan N, Arivazhagan M and Sivashanmugam, P	Removal of Chromium VI from Industrial waste using Electrocoagulation	Indian Journal of Environmental Protection	Vol. 27(4)	pp. 303-312	2007	
Siva Rama Krishna , Govardhan Pathipaka and P.Sivashanmugam,	Heat transfer and pressure drop studies in a circular tube fitted with straight half twist	Journal of Environmental Research and Development	Vol. 3(2)	pp.437-440	2008	
Pullabatala Sandeep and P.Sivashanmugam	Studies on effect of cut in baffle and Turbine blade on power consumption	Journal of Environmental Research and Development	Vol. 4(2)	pp.549-551	2009	
Siva Rama Krishna and P.Sivashanmugham	Heat transfer behavior of nanofluids in a uniformly heated circular tube fitted with helical inserts in laminar flow	IUP Journal of Chemical Engineering	Vol. II(2)	-	2010	
K.Nawaz Mohamed and P.Sivashanmugham	CFD Simulation of Subcooled Vertical Nucleate Boiling	IUP Journal of Chemical Engineering	Vol. II(4)	-	2010	
Lutukurthy D.N.V.V.Konda and P.Sivashanmugham	CFD Simulation of Heat Transfer Characteristic in Pilot plant scale bubble column	IUP Journal of Chemical Engineering	Vol. III(2)		2011	
Manikandan R, Prabhu H.J and Sivashanmugam P;	A comparative study on biodegradation of chlorobenzene using Pseudomonas aeruginosa, Nicordia hydrocarbonoxidase	Journal of Environment and Pollution Technology	Vol. 6(3)	pp. 399-406	2007	
Manikandan R, Prabhu H.J and Sivashanmugam P;	Studies on degradation of chlorobenzene using immobilized cell crude extract of Nicardia hydrocarbonoxidase	Journal of Environment and Pollution Technology	Vol. 7(1)	pp. 1-6	2008	

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(B) Conferences/Workshops/Symposia Proceedings

INTERNATIONAL CONFERENCES

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Sivashanmugam.P	Studies on Dispersion of Newtonian Fluid in a tube Fitted with Twisted Tape and Kenics Mixer	-	-	International conference on Mixing and Crystallisation,	Malaysia	1998
Prabhu.H.J. and Sivashanmugam.P.	Fluidised Bed Biomethanation of waste water	-	-	International workshop on Energy and Environment	Periyar Maniammai College of Engineering	Nov-2001
Sivashanmugam.P, Anantharaman. N, Meera Sheriffa Begum K.M, and Sridar.S.	Process Integration study of Ammonia Plant	-		International symposium on Recent trends in Heat and Mass Transfer	I.I.T Guwahatti,	Jan-2002
Kumar R, Sivashanmugam P and Kaliyugavarathan S	Intelligent Fuzzy and Conventional Control Implementation Using RTOS and TCP/IP	-	-	International Conference on Digital Aided Modeling and Simulation	CIT Coimbatore,	Jan-2003
.Kanagraj, P.Sivashanmugam and R. Kumar	N An Embedded Fuzzy Controller for Real time Pressure Control accepted	-	-	IEEE Conference,	IIT, Mumbai,	15-17 Dec 2006
N.Kanagraj, P.Sivashanmugam and R.Kumar	Feed Forward Integral Fuzzy approach for Pressure Control	-	-	International Conference on System Cybernetics	Pentagon Research Center, Hyderabad	03-07 Jan 2007
N.Kanagraj, P.Sivashanmugam and R.Kumar	Real Time Pressure Control Using three inputs	-	-	TIMA(International Conference)	NIT, Tiruchirappalli	-

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	Integral Fuzzy approach					
R.Maheswari, N.Kanagaraj, R.Kumar and P.Sivashanmugam	High Accuracy Direct Digital Read out of Relative Humidity and Temperature Uisng Embedded System	-	-	TIMA (Internationa l Conference)	NIT, Tiruchirap palli	-
S.Suresh, P.Sivashanmugam , and S.Prabhakaran	CFD Modeling of Heat Augmentation in a circular tube fitted with helical twist inserts in a laminar flow under constant flux	-	-	ISMC	IIT, Guwhatti	08-10 Dec 2006
Sivashanmugam, P and S Suresh, Prabakaran S and Ankamma Rao D	Modeling Heat transfer Augmentation in a circular tube fitted with helical twist insert in turbulent	-	-	International conference on Modeling and simulation	CIT, Coimbator e	27-29 Aug 2007
Sivashanmugam, P and Prabakaran S and Rathod Kailash Nayak	Simulation of an effect of a baffle length on the power consumption in an agitated vessel,	-	-	International conference on Modeling and simulation,	CIT, Coimbator e	27-29 Aug 2007
R.Manikandan, H.J.Prabhu, P.Sivashanmugam , C.N.Pradeeba, and L.S.Dina Livya	“Optimisation of Chlrobenzene biodegradable Extracts Production by Pseudomonas Auruginosa Using Experimental methods	-	-	International conference on Modeling and simulation	CIT, Coimbator e	27-29 Aug 2007
N.Kanagraj, and P.Sivashanmugam	Intelligent Fuzzy Coordinated Control Scheme for Pressure Control ProcessReal Time Pressure Control Using three inputs	-	-	International Conference on Computational Intelligence and Multimedia	Mepco Schelenk Engineerin g College, Sivakasi	2007

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	Integral Fuzzy approach			Applications 2007		
P.Sivashanmugam, Prabakaran S and Ankamma Rao D	Modeling of Heat Augmentation in a circular tube fitted with twisted tape inserts in a laminar flow using CFD	-	-	International conference on Resource Utilization and Intelligent system	Kongu Engineering College, Erode	03-5 Jan 2008
Pullabatala Sandeep and P.Sivashanmugam	Studies on effect of cut in baffle and Turbine blade on power consumption	-	-	paper presented in International Congress on Environmental Research	BIT-Pilani Goa campus	20-22 Dec 2008
Siva Rama Krishna, Govardhan Pathipaka and P.Sivashanmugam	Studies on heat transfer augmentation in a circular tube fitted with straight half twist left-right inserts in laminar flow	-	-	International Congress on Environmental Research,	BIT-Pilani, Goa campus	17-19 Dec 2008
Pullabatala Sandeep and P.Sivashanmugam	Studies on effect of V cut in baffle and Turbine blade on power consumption	-	-	International Conference on Emerging Trends in Engineering	Pravera College of Engineering	20-22 Dec 2008
Krishnama Raju Inavolu and P.Sivashanmugam	Heat transfer and pressure drop studies in a circular tube fitted with V cut twisted tape	-	-	Emerging Research and Advances in Mechanical Engineering	Vellammal College of Engineering	19-21 March 2009
N. Kanagaraj,M .Y .Sanavullah, P. Sivashanmugam, S. Paramasivam	Fuzzy based online tuning of PI controller for pressure regulation' paper presented in the international conference on Electrical energy system and power electronics in emerging economics	-	-	-	SRM university, Chennai	16-17 April 2009

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S. Kasthuriengan, U. Behera, V.Krishnamoorthy , B. V. Kamble, B.T. Kuzhiveli , N.M.Hariharan,and P.Sivashanmugam	Experimental studies of a thermoacoustic prime mover for the development of a pulse tube cryocooler		-	Cryogenic Engineering Conference and International Cryogenic Materials Conference	-	2011
A.Farjana Begum, N.Muthu Remena, S.Chittibabu, K.Thirumalavan, and P.Sivashanmugam	Optimization of media components for pullulan production	-	-	International conference on Green Technology for pollution prevention and control	NIT, Tiruchirappalli,	27-29 th Sep 2014
R. Madhu Nisha, V. T. Perarasu and P.Sivashanmugam	CFD Studies on heat transfer studies of Aluminium oxide ethylene glycol Nano fluids in a coiled agitated vessel	-	-	International conference on Green Technology for pollution prevention and control	NIT, Tiruchirappalli,	27-29 th Sep 2014
S. Arun, R. Madhu Nisha, V .T. Perarasu and P.Sivashanmugam	CFD Simulation heat transfer studies of Nano fluids in a coiled agitated vessel using turbine agitator	-	-	International conference on Green Technology for pollution prevention and control	NIT, Tiruchirappalli,	27-29 th Sep 2014
S. Arun, R. Madhu Nisha, V .T. Perarasu and P.Sivashanmugam	CFD Simulation heat transfer studies of Nano fluids in a coiled agitated vessel	-	-	International conference on Advances in chemical engineering and technology	TKM College of Engineering Kollam, Kerala	23-26 th October 2014

NATIONAL CONFERENCE

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Sivashanmugam P	Treatment of Heavy Metals in Metal Finishing Industries	-	-	National Seminar on Advanced Wastewater	Annamalai University	1997

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				Treatment		
Sivashanmugam P	Computer Aided Design of Heat Exchanger presented	-	-	National symposium on Computer Application in Chemical Engineering,	CIT Coimbatore,	1998
Sivashanmugam P and Prabhu H.J.	Production of Citric from Commercial Sugar by <i>Aspergillus Niger</i>	-	-	CHEMCON	Visakapattinam,	1998
Sivashanmugam P and Prabhu H.J.	Production of Citric Acid using mixed Culture of Yeast and <i>Aspergillus Niger</i>			CHEMCON	Jalander Punjab	1999
Kumar P , Sivashanmugam P and Palani S	Intelligent Control of Boiler using Fuzzy logic	-	-	National Symposium on Intelligent Measurement and Control conducted	MIT Chennai,	Feb 2000
Sivashanmugam P and Prabhu H.J	Production of Alpha Amylase	-	-	CHEMCON	Calcutta	2000
Sivashanmugam P Baskar and Abarna	Computer Aided Design and Performance Analysis of Cyclone Dust Collector	-	-	CHEMCON	Calcutta	2000
Sivashanmugam P and Mohan Rao	Computer Aided Design of Evaporator	-	-	CHEMCON	Calcutta	2000
Sivashanmugam P and Arivazhagan M	Energy Audit and Design Strategies for the Efficient Design of Incinerator for Solid Waste Disposal	-	-	RAWM-2001,	BHU, Varanasi,	2001
Anantharaman N, Sivashanmugam P and Meera Sheriffa Begum K.M	Studies on Treatment of Dairy Wastewater using Three phase Fluidization	-	-	CHEMCON-2001,	Chennai	2001
Sivashanmugam P , Jameer Hasan M and Rajagopal B	Computer Aided Design of Skirt Support	-	-	CHEMCON-2001,	Chennai	2001
Sivashanmugam P , Senthil Prabhu J.M and Vijaya Kumar	Computer Aided Design of Horizontal Cylindrical Storage Tank	-	-	CHEMCON-2001,	Chennai	2001
Sivashanmugam P , Chittibabu S.,	Denitrification study in a Biological Fluidised Bed Reactor using Brick particles	-	-	Environics-2002	Thiagarajar College of Engineering	2002

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Kumar.R, Umapathi.M, Sivashanmugam.P , Kaliyugavarathan.S	Embedded Image Processing Using Invariant Moments and RTOS	-	-	First National Conference on Modern Trends in Electrical and Instrumentati on Systems,	GCT Coimbatore	2002
Kumar R, Sivashanmugam P and Kaliyugavarathan	Embedded Co-processor Scheduling for Fuzzy and Conventional Control using RTOS and TCP/IP	-	-	National Symposium on Instrumentati on	Bhrathiar University	Nov 2002
Kumar R, Sivashanmugam P and Kaliyugavarathan	Embedded low cost Hospital data communication using Device drivers	-	-	National Symposium on Instrumentati on	Bhrathiar University	Nov 2002
Sivashanmugam P and K.Selvam	Removal of Mercury (II) by adsorption	-	-	CHEMCON- 2002	Hydrabad	2002
Kumar.R, Sivashanmugam.P , Kaliyugavarathan.S	Embedded Humidity control and Monitoring using RTOS Device Drivers	-	-	National Conference on Intelligent System Automation, and Signal Processing (NCIASP'03)	RMD Engineerin g College, Chennai	25-02- 2003
Kumar.R, Sivashanmugam.P , Kaliyugavarathan.S	Embedded Multi Channel Humidity control and Interrupt based Scheduling using RTOS Device KERNEL	-	-	National Conference on Process Identification , Control and Diagnosis	Annamalai University , Annamalai Nagar	8 and 9 th Aug 2003
Saravanan S, Deepak S ,Velappan K.C, and Sivashanmugam P	Optimal Design of Plate Heat Exchanger	-	-	CHEMCON- 2003 RRL	Orissa, Bhubanesh war	2003
Saravanan S, Anantharaman.N, Velappan K.C, Sivashanmugam P , K.M.Meera Sheriffa	Removal of Cr (IV) ions from aquous solutions by Emulsion Liquid Membrane	-	-	CHEMCON- 2003 RRL	Orissa, Bhubanesh war	2003

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Begum							
P.Sivashanmugam and C.Chittibabu	Denirtification study in a Fluidised Bed Reactor using spent activated alumina	-	-	one day conference on Safety Environment and Energy Management (SEEM 2004)	NIT, Tiruchirappalli	2004	CE T, N Tir rapp
P.Sivashanmugam	Environmental Management System.	-	-	one day conference on Environmental Impacts and Pollution Awareness conducted			Bis He Col , Tr
Manikandan R, Sivashanmugam P and Prabhu H.J.	Biodegardation of Monochlorobenzene by Pseudomonous Alragenosa Nicardia Hydrocarboxydanse and Mycoplana dimorpha and fitting biomass data to the logistic equation,	-	-	National Symposium on Recent trends in Biotechnology			
S.Suresh, P.Sivashanmugam, and P.K.Nagarajan	CFD Simulation of Heat Augmentation in a circular tube fitted with regularly spaced helical twist inserts in a laminar flow under constant flux	-	-	AER 2006,	IIT, Bombay	4-5 Dec 2006	
S.Suresh, P.Sivashanmugam, and P.K.Nagarajan	CFD Simulation of Heat Augmentation in a circular tube fitted with regularly spaced helical twist inserts in a turbulent flow under constant flux	-	-	CHEMCON-2006	Ankelesha war, Gujarat	27-30 Dec 2006	
P.Sivashanmugam and S.PrabHakaran	Investigation of Heat Transfer and Pressure drop Augmentation for laminar flow using CFD Analysis	-	-	-	Arunai Engineerin g college, Thruvanna malai,	2007	
Siva Rama Krishna , Govardhan Pathipakka and	CFD Simulation of Heat Transfer Augmentation in a Circular Tube Fitted	-	-	CHEMCON -2008	Chandigar h	2008	

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P.Sivashanmugam	with Right-left Helical Inserts in Laminar Flow					
Siva Rama Krishna , Govardhan Pathipakka and P.Sivashanmugam	Experimental studies on heat transfer augmentation in a circular tube fitted with straight half type twist in laminar flow	-	-	CHEMCON -2008	Chandigarh	2008
Pullabatala Sandeep and P. Sivashanmugam	Experimental studies on power consumption in an agitated vessel fitted with cut baffle	-	-	CHEMCON -2008	Chandigarh	2008
Sivashanmugam, P, and Nagarajan P.K	Studies on heat transfer and friction factor characteristics in laminar flow through a circular tube fitted with right-left helical screw-tape inserts with 100 mm spacer	-	-	National conference on Impact of Chemical Engineering and Biotechnology on Process Industries in the New Millennium	St Joseph College of Engineering, Chennai	11 th March 2009
Sivashanmugam, P, and Nagarajan P.K	Studies on heat transfer and friction factor characteristics in turbulent flow through a circular tube fitted with right-left helical screw-tape inserts with 100 mm spacer	-	-	National conference on Rural and renewable energy	Gandhigram rural University, Dindukal,	26 th March 2009
Sivashanmugam, P, and Nagarajan P.K	Studies on heat transfer and friction factor characteristics in laminar flow through a circular tube fitted with right-left helical screw-tape inserts with 300 mm spacer	-	-	3 rd National conference on Emerging Trends and Innovations in Chemical Engineering,	St. Peter College of Engineering, Chennai,	27-28th March 2009
Sivashanmugam, P, and Nagarajan P.K	CFD Simulation of Heat Transfer Augmentation in a Circular tube fitted with right-left helical Inserts with spacer in laminar flow	-	-	3 rd National conference on Emerging Trends and Innovations in Chemical Engineering	St. Peter College of Engineering, Chennai,	27-28th March 2009
Siva Rama Krishna V, Govardhan	CFD simulation of heat transfer augmentation in a	-	-	3 rd National conference	St. Peter College of	27-28th March

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Pathipaka , Krishnama Raju I and Sivashanmugam P	circular tube fitted with straight full twist inserts in laminar flow			on Emerging Trends and Innovations in Chemical Engineering	Engineerin g, Chennai,	2009
Sivashanmugam, P, and Govradan Pathipakka and Nagarajan P.K;	CFD Simulation of Heat Transfer Augmentation in a Circular tube fitted with right-left helical Inserts with 300 mm spacer in laminar flow	-	-	National conference on Challenges in Biotechnolog y	M.V.J. College of Engineerin g, Bangalore	16 – 17th April 2009
Rajish C.S., Nawas Mohammad K, Sivashanmugam, P	CFD Simulation on effect tape width in twist inserts on Heat Transfer Augmentation in a Circular tube in laminar flow	-	-	Twenty fifth in National convention of Chemical Engineer	Cochin	8 – 10 Oct 2010
Rajish C.S., Sivashanmugam, P	RTD studies in a circular tube fitted with twisted tape	-	-	CHENCON- 2010,	Annamalai University , Tamilnadu ,	27-29 Dec 2010

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
P.Sivashanmugam	Basics of Environmental Engineering	New India Publishing Agency	2008	110 088-2008
P.Sivashanmugam	Application of Nanofluids in Heat Transfer	Intech Publisher	2012	978-953-51- 0827-6
P. Sivashanmugam Arun C. Selvakumar P.	Study of Basic Concepts on the Development of Protein Microarray - Gene Expression Profiling: Protein Microarray	IGI Global	2016	ISBN 9781522504276