

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

Curriculum Vitae



Brief Profile:

Dr.P.Kalaichelvi, Professor & Head, Dept. of Chemical Engineering is an eminent person who actively engages in various research activities and has established Transfer Operations Research Laboratory at NIT, Trichy. Research on the thrust areas like Heat transfer augmentation, thermal energy storage, crystallization, and effluent treatment are in progress. More than 58 publications and 1 patent are attained. She has been awarded the VIWA Distinguish Woman by Venus International, Chennai for the year 2019-2020 and BOYCAST fellowship by DST, NewDelhi for the year 2004-2005. Her research knowledge is shared with scientific communities by visiting other countries like Singapore, Japan, Malaysia, Dubai and Srilanka. Various National and International Conferences, workshops and short-term courses are organized as part of the activities of the Research lab. Special lectures in various Prestigious Institutions were also delivered. Research contribution to the society includes her role as a reviewer in reputed journals

Apart from academic activities, she is unarguably a better administrator. She served as Associate Dean (R & C), NIT Trichy and has been the President of Ladies Club, NIT Trichy. She has organized many National and International Conferences. She has been the Chairperson of the Central Library of NIT Trichy. She has been invited as a plenary speaker, Session Chair, Expert member, Doctoral Committee Member and External Examiner in various academic Institutions like IIT Madras, NIT Jalandhar, Anna University Chennai, VIT, Vellore and many other regional colleges.

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1.	Name	Dr. P. Kalaichelvi
2.	Designation	Professor & Head
3.	Office Address	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli- 620015
4.	Telephone (Direct) (Optional): Telephone: Extn (Optional): Mobile (Optional):	Tel (office): 0431-2503110 Fax: +91-431-2500133
5.	Email (Primary): kalai@nitt.edu	Email (Secondary) : ponrajkalai@gmail.com
6.	Field(s) of Specialization:	Heat transfer, Crystallization, Wastewater treatment

7. Employment Profile

Job Title	Employer	From	To
Project Engineer	Ramani Chemasea Entech Systems Private Limited	15.04.1992	14.09.1994
Lecturer	SRM Engineering college, Kattangulathur	21.01.1999	27.12.1999
Lecturer	National Institute of Technology, Tiruchirappalli	19.01.2000	13.02.2004
Lecturer (Senior Scale)	National Institute of Technology, Tiruchirappalli	14.02.2004	22.04.2007
Assistant Professor (Vth CPC)	National Institute of Technology, Tiruchirappalli	23.04.2007	22.04.2010
Associate Professor (3 Tier)	National Institute of Technology, Tiruchirappalli	23-04-2010	30.11.2017
Associate Professor (4Tier)	National Institute of Technology, Tiruchirappalli	01.12.2017	11.03.2018
Professor (4 Tier)	National Institute of Technology, Tiruchirappalli	12.03.2018	Till date

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

Examination	Board / University	Year	Division/ Grade	Subjects
Post Ph.D. Experience	Kyoto University, Japan	April - May 2007	-	Advances in Complex fluids
Post Ph.D. Experience	National University of	March – September 2005	-	Simulated Moving Bed technology for

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	Singapore, Singapore			Chiral Drug separation
Ph. D.	A.C. Tech., Anna University, Chennai	1995-1999	Highly recomm ended	Chemical Engineering
M.Tech.	A.C. Tech., Anna University, Chennai	1990-1992	79.75	Chemical Engineering
B.Tech.	A.C. Tech., Anna University, Chennai	1986-1990	71.79	Chemical Engineering
12 th /Higher Sec	St.Mary's Higher Secondary School, Salem / State Board	1986	85.0	Physics, Chemistry and Mathematics
10 th	St.Mary's Higher Secondary School, Salem/ State Board	1984	84.0	State board

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Head of the Department	Chemical Engineering	November 2020	Till Date
Committee member for Technical Staff skill test	NIT Trichy	July 22 nd 2021	
Committee member for Ministerial Staff skill test	NIT Trichy	July 24 th 2021	
Doctoral Committee Member	NIT Trichy	Till date	
Chairperson	Library Advisory Committee, NIT Trichy	2018	2020
Associate Dean	R & C, NITT	10.10.2012	14.10.2014
Evaluator	Entrepreneurship, IPR, NIT Trichy	17.06.2011	22.05.2014
Chairman	Performance Committee	24.08.2007	30.06.2008

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Member	PhD Admission, NIT Trichy, TNPC Counselling, AIEEE Counselling	01.07.2004	31.12.2004
Convener	Staff Recreation Club	01.12.2006	01.08.2016
President	Ladies Club, NIT Trichy	01.04.2011	31.03.2012
Establishment Co-ordinator	Community Radio Station 90.8, NIT Trichy	10.10.2012	09.10.2014

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Examiner for PhD viva-voce Examination of Mr. Tamilselvan N (Reg. No. 1212269770)	Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore, Tamilnadu, India	28.09.2021	
Examiner for PhD viva-voce Examination under Centre for Research, Anna University of Mr. Nesakumar.D (Reg.No: 71130731001)	Department of Food Technology, Kongu College of Engineering, Erode. SSN College, Chennai	02.09.2020	
Member of Board of Studies	Department of Chemical Engineering, VIT Vellore	2020	2021
Member of Board of Studies	Department of Chemical Engineering, Dhanalakshmi Srinivasan College of Engineering,	2019	2020
Member of Academic Audit	AC-Tech Anna University, Chennai	2019	2020
Member of Board of Studies	Periyar Maniammai University (Deemed University), Vallam.	18.12.2011	30.12.2011
Doctoral Committee Member	AC Tech, Anna University, Chennai	11.10.2007	15.04.2016
Special Expert Member (WOMEN), Staff selection committee	NIT, Uttarakhand	09.10.2014	11.10.2014
Presented plenary lecture	25 th National Convention of chemical engineers, Cochin	06.10.2009	07.10.2009
Entrepreneurship Educator	National Entrepreneurship Network	14.07.2011	13.07.2012
Session chair	Chemcon, A.C.Tech , Anna University	27.12.2016	30.12.2016
Expert in evaluation team	Regional Children's Science Congress Held at Kendriya Vidyalaya, Trichy 16.	08.11.2012	09.11.2012

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2011-2012	NEN Entrepreneurship Educator	NEN
2019-2020	VIWA-Distinguish Women	Venus International, Chennai

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
1996-1999	Senior Research Fellowship from Council For Scientific and Industrial Research	CSIR, New Delhi	1996	1999
2004-2005	BOYSCAST fellowship, by DST, New Delhi	DST, New Delhi	2004	2005

13. Details of Academic Work

(i) Curriculum Development

- As a member in Designing of B.Tech (Chemical Engg.) and M.Tech (Plant Design and Process Control and Instrumentation) syllabus
- Member of Board of Studies at SSN College, Chennai
- Member of Board of Studies for Periyar Maniammai University (Deemed University), Vallam.
- Member of Board of Studies for ACTECh, Anna University, Chennai

(ii) Courses taught at Postgraduate and Undergraduate levels

- Heat Transfer
- Advances in Heat transfer
- Heat transfer Laboratory
- Introduction to Chemical Engineering

(iii) Projects guided at Postgraduate level

Sl.No	Name of the Thesis	Year
1.	Prediction of thermal and transport properties of Ionic liquid-water mixture using molecular dynamics simulation	2022

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2.	Prediction of active pharmaceutical ingredients (API) co-former for cocrystallization using molecular simulation	2021
3.	Modelling and Simulation of Chemical Vapor Deposition of Aluminum on Stainless steel substrate	2021
4.	Determination of crystal growth kinetics of chlorozoxazone	2020
5.	Heat Transfer studies of surface synthesized by CVD	2020
6.	Performance Studies on MFC using catalyst coated on anode electrode	2019
7.	Studies On Chemical Vapour Deposition	2018
8.	Performance enhancement of condenser by additives	2015
9.	Dynamic prediction and control of plate heat exchanger using ANN	2015
10.	Numerical Analysis of Fluid Flow and Heat Transfer of an Impinging air Jet	2015
11.	Use of Artificial Neural Network for Prediction of Overall Heat Transfer Coefficient and Modelling of Plate Heat Exchanger	2015
12.	Development of Control Scheme for prevention of Thermal runaway in the production of Dimethoxy Thiophosphate Acid (DMTA) in a Semi-Batch Process	2015
13.	Fluid Flow and Heat Transfer of an Impinging Air Jet	2014
14.	Numerical Studies of Heat Transfer in 6 Channelled Dimpled Plate Heat Exchanger	2014
15.	Study of Thermal Performance of Plate Heat Exchanger with Sodium Alginate Solution	2014
16.	Development of control scheme for prevention of thermal runaway in the production of dimethoxy thiophosphoric acid in a semibatch process	2014
17.	Study on Rheology and Thermophysical Properties of Sodium Alginate Solution	2013
18.	Studies on Microwave Assisted Emulsified Oil Removal from Synthetic Waste water	2013
19.	Heat Transfer Enhancement by additives in Plate Heat Exchanger	2013
20.	An Experimental study on the effect of lignin on Biomass Pyrolysis	2013
21.	Removal of Emulsified Oil From Waste Water Using Rice Straw As An Adsorbent	2012
22.	Removal of Emulsified Oil From Waste Water Using Rice Straw As low Cost	2011

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	Adsorbent	
23.	Experimental Analysis of Mixing Characterization of Carboxylmethyl Cellulose Solution In A Double Jet Mixer Using Tracker Technique By UV Vis Spec Analysis	2011
24.	Effectiveness Charts For Thermal Analysis of Seven Corrugated Plate Heat Exchanger Using Carboxymethyl Cellulose Solution as Cold Fluid	2011
25.	Modelling And Simulation of Plate Heat Exchanger Using Power Law Fluid as Cold Fluid	2010
26.	Analysis of Mixing Characteristics of Power Law Liquids in a Jet Mixer	2010
27.	Simulation studies on Jet Aerator	2010
28.	Energy analysis of plate type heat exchanger	2010
29.	Fuzzy Self Tuned PID controller for plate heat exchanger	2010
30.	Analysis of Mixing Characteristics in Two phase Jet Mixer Using Dissolved Oxygen Method	2009
31.	Optimum configuration of a double jet mixer using DOE	2009
32.	Thermal analysis of plate type heat exchanger	2009
33.	Effect Of Radial Angle On Mixing Time For A Double Jet Mixer	2008
34.	Performance Analysis Of Two Phase Jet Mixer	2008
35.	Studies on plate type heat exchanger	2008
36.	Two phase Jet Mixer	2008
37.	Simulations Of Two Phase Jet Mixer	2007
38.	Control System Design For Ideal Reactive Distillation Column	2007
39.	Jet Mixing Using CFD	2007
40.	Simulation studies on Jet Mixing	2007
41.	Control System Design For Ideal Reactive Distillation Column	2006
42.	Jet mixing using CFD	2006
43.	Synergistic Extraction	2005
44.	Studies On Jet Mixing	2004
45.	Extraction Equilibrium Studies With-Dual Solvent	2004
46.	Studies On Bioleaching	2004
47.	Simulation of Multiple Effect Evaporator	2003

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48.	Debottlenecking of Propylene Glycol Mono Methyl Ether (PGMME) Plant to improve its existing capacity	2003
49.	Studies on extraction of p-hydrobenzoic acid using dual solvent technique	2002

(iv) Other contribution(s)

Consultancy Project Title	Name of Sponsoring Agency	Amount Sanctioned	Period of Project	
			From	To
Monitoring of Sea bed, Sea Water Quality, Ambient Air Quality, Noise Pollution & Potable Water Quality	V.O.Chidambaranar Port Trust Area, Tuticorin	Rs 18,98,000	2012	2014

Sl.No.	Patent Title	Name of Applicant	Patent No.	Agency/ Country	Status
1	Method of Preparation of Ibuprofen Crystals from a Green solvent & Product thereof	T.K.Radhakrishnan, P.Kalaichelvi, S.Karthika	201741033366	Altacit Global, India	Granted 2020

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
NMIECT Project on Computer Aided Design in Chemical Engineering.	MHRD-NMIECT, IIT Kharagpur	2013	2017	Completed
Analysis of Flow and Heat Transfer Characteristics of Single and Two Phase Flow through Plate Heat Exchanger	Council of Scientific and Industrial Research	2010	2013	Completed
Business and Management Capacity Development of Rural Women Entrepreneurs	The Asia Foundation	2014	2015	Completed

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of India and Sri Lanka				
Investigation on Removal of Dyes from Effluents using cloud point extraction	Tamil Nadu State Council for Science & Technology	2010	2012	Completed
Monitoring of Sea bed, Sea Water Quality, Ambient Air Quality, Noise Pollution & Potable Water Quality	V.O.Chidambaranar Port Trust Area, Tuticorin	2012	2014	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
T.Raja; CLZ0305	Experimental and Simulation Studies on Jet Mixers	Supervisor	01.08.2008
S.Ramachandran; CLZ0302	Two Phase Experimental Heat Transfer Studies in Spiral Plate Heat Exchanger	Supervisor	01.08.2007
K.V.Selvakumar; CLZ0308	Studies on Integration of Electro Chemical and Microbial Processes for the Treatment of Textile Dye	Supervisor	01.08.2011
K.Muthamizhi; 402910001	Thermal Performance of Plate Heat Exchanger Using Power Law Fluids	Supervisor	15.09.2014
P.Augusta; 402111001	Removal of Emulsified Oil from waste water using low cost adsorbents	Supervisor	17.07.2017
K. Jeyajothi; 402915001	Heat transfer and fluid flow characteristics of an impinging air jet on a flat plate	Supervisor	18.03.2019
S. Karthika; 402114004	Crystallization of pharmaceuticals from green solvents	Co-Supervisor	10.10.2019
Divya P Soman; 402114052	Heat Transfer Augmentation of Plate Heat Exchanger	Supervisor	05.10.2020
N.Dhayananth; 402118003	Crystallization studies for solubility enhancement of Chlorzoxazone	Supervisor	Ongoing
P.Sandhya 402120004	Biocathode Microbial Desalination Cells	Supervisor	Ongoing

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

Date (s)	Title of Activity	Level of Event (International/ National/	Role (Participant/ Speaker/	Event Organized by	Venue
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		Local)	Chairperson, Paper presenter, Any other)		
12.03.2022	Women's Economic Empowerment on "Women's Day 2022 Celebration"	National	Speaker	Iiche, Chennai Regional Centre, Chennai	Chennai
01.12.2020 to 03.12.2020	NSM Workshop on High Performance Computing in CFD	National	Presenter	IIT, Madras	Online
27.11.2020 to 1.12.2020	TEQIP-III sponsored online short term course on "Modern Practices in Hydrocarbon Engineering"	National	Participant	TEQIP-III, NIT- Jalandhar	Online
02.11.2020 to 01.12.2020	National Workshop on Virtual Experiments in Mechanical Engineering" conducted by	National	Participant	IIT, Guwahathi	Online
11.05.2020 to 15.05.2020	Training Programme on "E-Content Development" under Quality Improvement program Organized by	National	Participant	National Institute of Technical Teachers Training and Research, Government of India, Ministry of Education, Chennai	National Institute of Technical Teachers Training and Research, Government of India, Ministry of Education, Chennai
18.11.2019 to 22.11.2019	Socio-Economic Impact Assessment of S&T Outcomes' for Women Scientists/Technologists held at CSIR-HRDC, Ghaziabad	National	Participant	CSIR- HRDC, Ghaziabad	CSIR-HRDC, Ghaziabad
03.10.2019 to	Faculty Training program	National	Participant	NIT-T	NIT-T

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05.10.2019	New Teaching-Learning Aid and course Module Development Using ASPEN Plus				
14.02.2019 to 16.02.2019	International Symposium on Process Safety conducted by IIT Madras	International	Participant	IIT, Madras	IIT, Madras
2015	ICCBP 2015 Dubai - 4th International Conference on chemical and biological Processes	International	Participant	Mehran University	Dubai
2014	Knowledge Management and Innovation for Higher Educational Institutions	National	Participant	USIEF	NITT
2012	Int. Conf. @SGP on Chemical, Bio-Chemical and environmental Sciences (ICBEE 2012)	International	Participant	Singapore	Singapore
2012	NEN Faculty Development Course- Building Technology Ventures	National	Presenter	WADHWANI Foundation	VIT, Chennai
2011	ICEEC 2011, Malaysia	International	Participant	Malaysia	Malaysia
2011	Course on Heat Transfer	National	Presented a Research Paper	MHRD	IITM
2011	Kick-Starting Entrepreneurial Campus Course	National	Participant	NEN	PSG Institute of Management, Coimbatore
2011	Environmental Chemodynamics	National	Participant	AICTE	NITT
2010	Recent Researches on Fuzzy Logic and Neural Networks	National	Participant	MHRD-AICTE	NITT
2010	SERC School and Symposium on Rheology of Complex Fluids	National	Participant	DST	IIT Madras
2009	Intellectual Property and Innovation Management in Knowledge Era	National	Participant	AICTE QIP	NITT
2009	Smart Processing of Materials	National	Participant	AICTE QIP	NITT
2008	Sustainable Technologies for Future	National	Participant	TEQIP	NITT
2008	Advanced Chemical Process Design	National	Participant	TEQIP	NITT

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2008	Process Identification and Control	National	Participant	MHRD-AICTE	NITT
2008	Rural Development - Role of Renewable Energy Services	National	Participant	TEQIP CEESAT	NITT
2008	Process Optimization	National	Participant	TEQIP	NITT
2008	Fault Diagnosis and Applications	National	Participant	TEQIP	NITT
2008	Ultrasonics and Sonochemistry as an Emerging Technology	National	Participant	TEQIP	NITT
2008	Advanced Tools and Techniques for Research in Engg Problems	National	Participant	AICTE QIP	NITT
2008	Non-Linear Control Systems	National	Participant	TEQIP	NITT
2007	Workshop on Computational Fluid Dynamics	National	Participant	TEQIP	NITT
2007	Int Conference on Nanomaterial and Its Applications	International	Participant	TEQIP	NITT
2004	Emerging Trends in Energy Management and Non-Conventional Energy	National	Participant	AICTE-ISTE	NITT
2004	Innovative Pollution Control Techniques for Sustainable Environmental Management	National	Participant	AICTE	Pondicherry Engineering College
2004	Recent Trends in Industrial Effluent Treatment	National	Participant	AICTE	Annamalai University
2004	Application of Melt Rheology in Polymer Processing	National	Participant	AICTE-ISTE	Amirtha University
2004	Interaction With Members of IE (India), Tiruchirappalli Centre	National	Participant	AICTE-ISTE	NIT Warangal
2003	Safety and Environment Management Trends	National	Participant	AICTE-ISTE	NITT
2003	Modelling, Simulation and Analysis of Enhanced Distillation Processes	National	Participant	QIP	IIT Madras
2002	National Workshop-Cum-Symposium on Complex Fluids	National	Participant	IISC Bangalore	IISC Bangalore
2002	Biotechnology – Emerging Trends and Challenges Ahead	National	Participant	AICTE-ISTE	Annamalai University
2002	Trends in Industrial Instrumentation	National	Participant	REC (NITT)	REC Trichy

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2002	Computer Control of Processes	National	Participant	QIP	IIT Madras
2002	Recent Advances in Computing Techniques in Chemical Engineering Curriculum	National	Participant	AC Tech, Anna University	AC Tech, Anna University
2001	ESI'S Pipeline Application Software	National	Participant	REC Trichy	REC Trichy
1999	IST Short Term Course on Induction Training for Teachers	National	Participant	SRM, Chennai	SRM, Chennai

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
AICTE MARGDARSHAN Sponsored WORKSHOP “Quality assurance in Technical and Higher Educational Institutions and interpretation of requirements of NBA Accreditation”	National	19 th to 23 rd July 2021	Convenor	NIT, Trichy
International conference on “Recent Technologies and Advanced Materials For Green Energy and Sustainable Environment”	International	12 th to 13 th March 2021	Convenor	NIT, Trichy
Conference on Advances in Chemical and Environmental Engineering (ACEE 16)	National	22 nd -23 rd April 2016	Convenor	NIT, Jalandhar
Women Entrepreneurship Ecosystem- Present and Future	National	27 th October 2015	Convenor	WEAT Office, Trichy
Awareness Conference -Business and Management Capacity Development of Rural Women Entrepreneurs of India and Srilanka	International	12 th September 2014	Convenor	WEAT Office, Trichy
International Mechanical Engineering Congress - IMEC 2014	International	13-14 th June 2014	Convenor	NIT, Trichy
INDO-UK Workshop 2011 - Current Developments of Wastewater Treatment in India	International	29-31 st August 2011	Convenor	NIT, Trichy

Workshop Organized

Sl. No.	Title	Duration	No. of Participants	Sponsored by
1.	BioSeparation Techniques	14 th April 2007	40	TEQIP- I
2.	Advanced Fluid Dynamics - High Viscous Fluids	4 - 5th January 2008	40	TEQIP- I
3.	Chemical Systems Modeling and	13 th -17 th July	40	AICTE-MHRD,

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	Simulation	2009		NIT-T
4.	Entrepreneurship	September 2011 to March 2012.	100	NIT-T(E-CELL)
5.	E-Week 2012	1 st Feb to 8 th Feb 2012	100	NIT-T(E-CELL)
6.	WEDP Entrepreneurship Development Programme for Women	9 th August 2012	60	Canara Bank, Thuvakudi, Trichy
7.	Experimental Design and Optimization Techniques (Self-Supporting)	10-14 th September 2012		NIT-T
8.	E- Week 2013	1 st February to 7 th February 2013	100	NIT-T(E-CELL)
9.	Genesis 2013	9 th March 2013	100	NIT-T(E-CELL)
10.	Ventura 2013	10 th March 2013	100	NIT-T(E-CELL)
11.	Applications of chemical engineering Principles in Biotechnology	28 th to 29 th June 2013	40	TEQIP - II
12.	Energy and Environment	27 th -28 th July 2013	40	NIT-T
13.	Entrepreneurship Development Programme on Women Entrepreneurship	15 th – 20 th December 2014	100	The Asia Foundation

Short term Courses Organized

Sl.No.	Title	Duration	No. of Participants	Sponsored by
1.	Women Entrepreneurship Ecosystem- Present and Future.	27 th October, 2015	100	The Asia Foundation
2.	Conclave on Strengthening Chemical Engineering curriculum for Present and Future scenario'	13 th - 14 th March, 2015	30	TEQIP - II
3.	Piping Technology	27 th - 28 th March, 2014 and 19 th April 2014	30	TEQIP - II
4.	Awareness Conference on " Business and Management Capacity Development of Rural Women Entrepreneurs of India and Sri Lanka	12 th September 2014	100	The Asia Foundation
5.	Experimental Design And Optimization Techniques	10 th September -14 th September 2012	60	Self-supporting
6.	Chemical Systems Modeling and Simulation	13 th July 2009 to 17 th July 2009	40	AICTE-MHRD

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18. Invited Talks delivered

Topic	Date	Inviting Organization
Gender Equality Today for a Sustainable Tomorrow	12 th March 2022	Indian Institute of Chemical Engineers, CRC
Developing Business Based on Estimation	15th December 2014 to 20th December 2014.	Sponsored by The Asia Foundation
Idea Generation and Opportunity evaluation	June 30 - July 26, 2014	(DST)- NIMAT Project, Government of India and organized by Centre for Entrepreneurship Development and Incubation, NIT Trichy.
Business Plan Preparation	5 th May - 17th may 2014	DST-NIMAT Sponsored, organized by Centre for Entrepreneurship Development and Incubation, NIT Trichy.
Roll of preparative chromatographic column in chiral drug separation	October 9-10, 2009	Twenty Fifth National Convention of Chemical Engineers, Cochin
Introduction to Chemical Process Flowsheeting	20th October 2008	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli, sponsored by TEQIP-I
Fundamentals of High Viscous Fluid	4th and 5th January 2008	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli. sponsored by TEQIP-I
Mixed Solvent Extraction technique for effluent treatment at the workshop	27th Feb' 2008	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli.
Simulated Moving Bed System for Pharmaceutical Drug Separation	05.09.2007	Periyar Maniammai University, Vallam, Thanjur
Pharmaceutical Drug Separation	15th and 16th December 2006	Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli
Areas of research	4th and 5th August 2005	School of Chemical Engineering, Engineering Campus, University Sains Malaysia (USM) , 14300 Nibong Tebal, Pulau Pinang, Malaysia
Biobleaching	23 rd March 2004	The Institution of Engineers (India) Tiruchirappalli

19. Membership of Learned Societies

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Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Society for Technical Education	(LM-27972)
Life Member	Indian Institute of Chemical Engineers	(LM-32184)
Member	The Institution of Engineers (India)	(M-139323-5)
Life Member	National society of fluid mechanics & fluid power (India)	(LM-522)
Life Member	Indian Society for Heat and Mass Transfer	(ISHMT NO.:622)

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Malaysia	04.08.2005 to 05.08.2005	Special Lecture About My Areas of Research and Interaceon With M.S and Ph.D. Students, School of Chemical Engineering, Engineering Campus, USM, Malaysia
Dubai	22.11.2015 to 24.11.2015	Presented a Research Paper ICCBP 2015 Dubai - 4th Internaœonal Conference on Chemical and Biological Processes
Srilanka	2015	Co-Coordinator, South Eastern University and University of Jaffna Conference at Srilanka
Malaysia	21.12.2011 to 23.12.2011	Presented a Research Paper, ICEEC 2011
Japan	April-May 2007	Research Training at Kyoto University, Kyoto,Japan
Malaysia	04.08.2005 to 05.08.2005	University Sains Malaysia (USM), Malaysia-Faculty and Research Student Interaction
Singapore	March-September 2005	Research Training, NUS Singapore

21. Publications

(A) Refereed Research Journals:

Author	Title	Journal	Volume	Page	Year
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Dhayananth, N., Karthika, S., Kalaichelvi, P. , Radhakrishnan, T.K.	Correlation of solubility data and solution properties of chlorzoxazone in pure solvents	Journal of Chemical Thermodynamics	170	106777	2022
Sandhya Praksh, Kalaichelvi Ponnusamy , Samsudeen Naina Mohammed	An insight on Biocathode Microbial Desalination Cell: Current challenges and prospects	International Journal of Energy Research	46 (7)	8546-8559	2022
Divya P Soman, Karthika S, Valan D T, Kalaichelvi P , T K Radhakrishnan	Computational Fluid Dynamics Modelling and Analysis of Heat Transfer in Multichannel Dimple Plate Heat Exchanger	Iranian Journal of Chemistry and Chemical Engineering (IJCCE)	Accepted, November 2021		
P. Kalaichelvi , T K Radhakrishnan, Divya P Soman	Density Modelling and Apparent Molar Volume of Ionic liquid 1-Butyl-3-methylimidazolium Bromide in Water	Journal of the Brazilian Society of Mechanical Sciences and Engineering.	44	79	2022
Dhayananth N, Kalaichelvi P , Radhakrishnan, T. K, Karthika S	Influence of solvent choice and operating conditions on Chlorzoxazone crystal shape and size	Brazilian Journal of Pharmaceutical Sciences	Accepted, September 2021		
Shubhangi Sandeep Patil, K. Muthamizhi, P. Kalaichelvi	Development of correlation for the density of polymers as function of temperature and concentration	International Journal for Research in Engineering	8	06-10	2021
Satish G, Dhayananth N, Kalaichelvi P , Radhakrishnan, T. K, Karthika S	Determination of Chlorzoxazone Crystal Growth Kinetics and Size Distribution under Controlled Supersaturation at 293.15 K	Pharmaceutical Sciences	27 (4)	575-584	2021
Vamsi Krishna B, Shivasheesh V Yashasvi A Kalaichelvi. P	Heat transfer studies of surface synthesized by chemical vapor deposition	Heat and mass transfer	56	3229-3241	2020

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Mohamed, S. N., Thomas, N., Tamilmani, J., Boobalan, T., Matheswaran, M., Kalaichelvi, P. , Pugazhendhi, A.	Bioelectricity generation using iron (II) molybdate nanocatalyst coated anode during treatment of sugar wastewater in microbial fuel cell.	Fuel	277	118-119	2020
Varshney, S., Agarwal, Y., & Kalaichelvi, P.	A review of quantum dot solar cells fabrication via chemical vapor deposition method	Conference Proceedings AIP Publishing LLC.	2235 (1)	020002	2020
Karthika, S., Radhakrishnan, T. K., & Kalaichelvi, P.	Crystallization and Kinetic Studies of an Active Pharmaceutical Compound Using Ethyl Lactate As a Green Solvent	ACS Sustainable Chemistry & Engineering	8(3),	1527-1537	2019
Karthika, S., Radhakrishnan, T. K., & Kalaichelvi, P.	Measurement of nucleation rate of ibuprofen in ionic liquid using induction time method.	Journal of Crystal Growth	521,	55-59	2019
Divya P. Soman, S. Karthika, P. Kalaichelvi and T.K.Radhakrishnan	Impact of viscosity of nanofluid and ionic liquid on heat transfer	Journal of Molecular Liquids (SCI)	291	111349	2019
Divya P. Soman, S. Karthika, P. Kalaichelvi and T.K.Radhakrishnan	Experimental study of turbulent forced convection heat transfer and friction factor in dimple plate heat exchanger	Applied Thermal Engineering	162	1-10	2019
Divya P Soman, P.Kalaichelvi , and T.K Radhakrishnan	Thermal Conductivity Enhancement of Aqueous Ionic Liquid and Nanoparticle Suspension	Brazilian Journal of Chemical Engineering (SCIE)	162	114254	2019
Jeyajothi, K. and P. Kalaichelvi	Effect of Steel Plate Thicknesses and Fluid Flow Characteristics of an Impinging Air Jet on Heat Transfer at Stagnation Point	Brazilian Journal of Chemical Engineering (SCIE)	36 (1)	221-228	2019

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Jeyajothi, K. and P. Kalaichelvi	Augmentation of Heat Transfer and Investigation of Fluid Flow Characteristics of an Impinging Air Jet on to a Flat Plate	Arabian Journal for Science and Engineering (SCI)	44	5289–5299	2019
M Dheenamma Divya P.Soman K.Muthamizhi P.Kalaichelvi	In pursuit of the best artificial neural network configuration for the prediction of output parameters of corrugated plate heat exchanger	Fuel (SCI)	239	461-470	2019
Jeyajothi, K. and P. Kalaichelvi	Heat Transfer Performance of Stainless Steel, Mild Steel and Aluminium Target Plate for Various Configurations of Impinging Air Jet	Bulgarian Chemical Communications (SCIE)	50 (4)	44-50	2018
S.Karthika, T.K.Radhakrishnan P.Kalaichelvi	The role of hydrogen bonding propensity in tuning the morphology of crystals obtained from imidazolium based ionic liquids	Journal of Crystal Growth (SCI)	463	168-175	2017
Divya P. Soman, P. Kalaichelvi and T. K. Radhakrishnan	Review on suitability of ionic liquids for heat transfer applications	Emerging Trends in Chemical Engineering/ 2349-4786/ Google Scholar	3	40-51	2016
Karthika, T.K.Radhakrishnan P. Kalaichelvi	A Review of Classical and Non classical Nucleation Theories	Cryst. Growth Des (SCI)	16 (11)	6663–6681	2016
P.Augusta, P.Kalaichelvi , K.V. R.Srinivasan	Packed bed column studies on the removal of emulsified oil from water using raw and modified bagasse and corn husk	Journal of Molecular Liquids (SCI)	223	1256-1263	2016

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G.Naveen Kumar, K.N.Sheeba, P.Kalaichelvi	The effect of temperature and hemicellulose-lignin, cellulose -lignin and cellulose- hemicellulose on char yield from the slow pyrolysis of rice husk	Energy Sources, Part A Recovery, Utilization, and Environmental effects (SCI)	38 (10)	1428-1434	2016
P.Augusta, P.Kalaichelvi , K.N.Sheeba, A.Arunagiri	Microwave Assisted Preparation of Bagasse and Rice Straw for the Removal of Emulsified Oil from Wastewater	Bioremediation Journal (SCI)	20 (2)	153-163	2016
P.Augusta, P.Kalaichelvi	Investigation on microwave and ultrasound-assisted cornhusk for the removal of emulsified engine oil from water	Desalination and Water Treatment (SCI)	57 (28)	13120-13131	2016
Divya P Soman, P Kalaichelvi and T.K Radhakrishnan	Review on suitability of Ionic Liquids for Heat Transfer Application	Emerging Trends in Chemical Engineering	3(3)	40-51	2016
K.Muthamizhi, P. Kalaichelvi	Development of Nusselt number correlation using dimensional Analysis For PHE with A Carboxymethyl Cellulose Solution	Heat and Mass Transfer (SCI)	51 (6)	815-823	2015
Tamilselvi,S. and P.Kalaichelvi	Review of Fluid Flow and Heat Transfer in Impinging Jet System	Recent Trends in Fluid Mechanics	1(3)	1-14	2015
M Dheenamma P. Kalaichelvi	Numerical Study of Heat Transfer in Six Channeled Dimpled Plate Heat Exchanger	Journal of Thermal Engineering and Application	2(1)	15-25	2015
K.Priya, D.Saravanan, P.Kalaichelvi , A.Arunagiri, R.Anantharaj	Extraction of Reactive Orange 107 dyes from aqueous stream using Triton X114 surfactant Quantum chemical calculations and	Journal of Industrial and engineering Chemistry (SCI)	20 (4)	2409-2420	2014

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	experiment				
K.Muthamizhi, P. Kalaichelvi , T. Shubhangi Powar, R. Jaishree	Investigation and modelling of surface tension of Power Law Fluids	Rsc Advances (SCI)	4	9771-9776	2014
A.Arunagiri, P. Kalaichelvi , Subbarao cherukuri, Anuja Vijayan,	Removal of Crystal Violet Dye from Aqueous Solution Using Triton X-114 Surfactant via Cloud Point Extraction	Engineering Science and Technology an International journal (Scopus)	17(3)	137-144	2014
Karthick,T.V., D.Karhikeyan, S.Ramachandran, P.Kalaichelvi , S.Sundaram and R. Jaishree	Modeling and Simulation of Spiral Plate Heat Exchanger	Journal of Thermal Engineering and Applications	1(1)	22-29	2014
Muthamizhi,K., P.Kalaichelvi , A.Arunagiri and A.Rudhra	Measurement and model validation of specific heat of xanthan gum using Joules Calorimeter method	International Journal of Research in Engineering and Technology	2(9)	232-238	2013
A.Arunagiri,A., K.Priya, D.Saravanan, P.Kalaichelvi and R.Anantharaj	Evaluation of Interaction Energies and Thermodynamic Properties in Binary mixture of Reactive Orange 107 Dye and Triton X-114 Surfactant at 303.15, 313.15 and 323.15K	International Journal of Research in Engineering and Technology	2(8)	442-454	2013
Shankar P, Himanshu Vyas Vyas, Kalaichelvi Ponnusamy , Muthamizhi Karuppanan,	Experimental Analysis of mixing characteristics of Carboxymethyl Cellulose Solution (0.5%) in a Double Jet Mixer	International Journal of Chemical and Environmental Engineering	3(4)		2013
A.Arunagiri, P. Kalaichelvi , Subbarao Cherukuri, Anuja Vijayan	Studies on Removal of Reactive Blue Dye Using Cloud Point Extraction	International Journal of Chemical and Environmental Engineering	3(1)		2012

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S.Harika, P.Kalaichelvi , M.A.Majid, K.Dheenathayalan	Effectiveness charts for counter flow corrugated plate heat exchanger	Simulation Modeling Practice and Theory (SCI)	19 (2)	777-784	2011
K.V. Selvakumar, C. Ahmed Basha, H.J Prabhu, P.Kalaichelvi , N.Sudha	The potential of free cells of Pseudomonas aeruginosa on textile dye Degradation	Bio resource Technology (SCI)	101 (8)	2678-2684	2010
P.Manjula, P.Kalaichelvi , K.Dheenathayalan	Development of mixing time correlation for a double jet mixer	Journal of Chemical Technology and Biotechnology (SCI)	85 (1)	115-120	2010
P.Manjula, P.Kalaichelvi , C.Shanawaskhan, K.Dheenathayalan	Effect of radial angle on mixing time for a double jet mixer	Asia Pacific Journal of Chemical Engineering (SCIE)	5(3)	544-551	2010
Harika. S, Kalaichelvi. P , Majid M.A. Dheenathayalan K	Effectiveness charts for thermal analysis of nine channel corrugated plate heat exchanger	International Journal of Chemical Engineering	3(1)	27-35	2010
Perumalsamy .M, Kalaichelvi. P and T.K.Radhakrishnan	CFD Modeling of flow pattern and phase holdup of three phase fluidized bed contactor	Chemical Product and Process Modeling (Scopus)	4(1)		2009
Dheenathayalan.K and P.Kalaichelvi	Combined experimental and simulation (CFD) analysis on thermal performance of plate heat exchanger using kerosene as working fluid	Chemical Product and Process Modeling (Scopus)	4(1)		2009
Shanawaskhan. C, Kalaichelvi. P , Perumalsamy.M and Arunagiri. A	Computational fluid dynamic analysis of two phase jet mixer	Journal of University of Chemical Technology and Metallurgy, Bulgaria	44 (3)	262-266	2009

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Ramachandran.S, Kalaichelvi.P and Sundaram.S,	Heat transfer studies in a spiral plate heat exchanger for water –palm oil two phase system	Brazilian Journal of Chemical Engineering (SCIE)	25 (3)	483-490	2008
Raja.T, Kalaichelvi.P , Ananthraman .N	An experimental and CFD investigation of the effect of Nozzle Inclination and Twisting in a Double Jet Mixed Tank	International Journal of Applied Engineering Research	3 (10)	1337-1352	2008
T.Raja, P.Kalaichelvi , N.Ananthraman	The development of CFD model for optimum mixing in jet mixed tanks	Journal of Scientific and Industrial Research (SCI)	66	522-527	2007
Kalaichelvi. P , Perumalsamy. M, Arunagiri. A, Sofiya. K	Synergistic extraction of a cetic acid from its aqueous solution	Journal of University of Chemical Technology and Metallurgy, Bulgaria (Scopus)	42 (3)	423-426	2007
Swarnalatha. Y, Raja.T and Kalaichelvi. P	Mixing time estimation and analysis in a jet mixer	ARNP Journal of Engineering and Applied Sciences	2(5)	35-43	2007
Raja.T, Kalaichelvi.P , Ananthraman .N	CFD simulation and experimental validation of jet mixer with conical bottom	Process and Plant Engineering	XXV (3)	27-32	2007
Ramachandran.S, Kalaichelvi.P and Sundaram.S	Studies on heat transfer correlation for water oleic acid two phase system in a compact heat exchanger	Process & Plant Engineering	XXIV	53-56	2006
Ramachandran.S, Kalaichelvi.P and Sundaram.S	Experimental heat transfer correlations for a liquid-liquid Two-phase System in a compact heat exchanger	Chemical Technology (TSI) Journals	1(1)	14-19	2006
Ramachandran.S, Kalaichelvi.P and Sundaram.S	Heat transfer studies for two phase flow in a spiral plate heat exchanger	Journal of University of Chemical Technology and	41 (4)	329-332	2006

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		Metallurgy, Bulgaria			
Kalaichelvi P	Analysis of parameters in fluencing the properēes and yield of lube oil extraction products	Hungarian Jo urnal of Indus trial Chemistr y (Scopus)	30 (4)	295-298	2002
P.Kalaichelvi, T.Murugesan	A correlation for mass transfer coefficients in rotating disc contactors	Bioprocess Engineering (SCI)	19	381- 384	1998
P.Kalaichelvi, T.Murugesan	A new correlation for characteristic velocity in rotating disc contactors	Canadian Journal of Chemical Engineering	76 (I)	126 - 131	1998
P.Kalaichelvi, T.Murugesan	Dispersed hold up in rotating disc contactors	Bioprocess Engineering (SCI)	18 (2)	105- 112	1998
P.Kalaichelvi, T.Murugsan	Prediction of slip velocity in rotating disc contactors	Journal of Chemical Technology (SCI)	69 (1)	130 - 136	1997
B.Ayyappan, P.Kalaichelvi T.Murugesan	Suspension of solid particles in turbine agitated contactors	Bioprocess Engineering (SCI)	15	205- 208	1996
Indulekha John, Prasanthi Y, Perumalsamy M Kalaichelvi P Arunagiri .A	Statistical optimization of acid catalyzed steam pretreatm ent of citrus peel waste for bioethanol production	Resource- Efficient Technologies	0	1-5	2017
Arunagiri, Prabisha Purushothaman P.Kalaichelvi, R.Anantharaj,	Separation of Methylene Blue Dye from Aqueous S olution Using Triton X-114 Surfactant	Journal of Thermodyna mics	670186	1-16	2014

(B) Conferences/Workshops/Symposia Proceedings

S. No	Authors	Title	Name of Conference	Place	Year
1.	Divya P Soman, Muthamizhi K, P Kalaichelvi , TK Radhakrishnan	Study of Specific heat capacity of 1-butyl-3- methylimidazolium bromide solution for application in heat	1 st International conference on Sustainable Development in	Kamaraj College of Engineering & Technology,	2019

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		exchanger	Energy and Environment	Madurai	
2.	Divya P Soman, S. Karthika, P Kalaichelvi and T.K.Radhakrishnan,	Effect of viscosity of ionic liquid and nanofluid on heat transfer characteristics.	1st International Conference on Advances & challenges for sustainable ecosystem (ICACSE 2018)	NIT Tiruchirappalli, Tamil Nadu	2018
3.	M Dheenamma Divya P.Soman K.Muthamizhi P.Kalaichelvi	In pursuit of the best artificial neural network configuration for the prediction of output parameters of corrugated plate heat exchanger	First International Conference on Energy and Environment: Global Challenges	NIT Calicut	2018
4.	Divya P Soman, P Kalaichelvi , T K Radhakrishnan.	Artificial Neural Network & Response Surface Methodology Modelling of Surface Tension of 1-Butyl-3-methylimidazolium Bromide Solution	3rd International Conference On “ Next Generation Computing Technologies (NGCT 2017)	UPES, Dehradun, India	2017
5.	Shubhangi T.P., K.Muthamizhi and P. Kalaichelvi	Comparative study of heat transfer and flow friction in plate heat exchanger with carboxymethyl cellulose and sodium alginate	4th International conference on chemical and biological process (ICCBP2015)	Dubai	2017
6.	S. Karthika, T.K.Radhakrishnan, P. Kalaichelvi	Modelling and Simulation of Crystallization Process	CHEMCON 2016	Chennai	2016
7.	S. Karthika, T.K.Radhakrishnan, P. Kalaichelvi	A review on Pharmaceutical crystallization technology	TECHNOSCAP 2016	VIT, VELLORE	2016
8.	S. Karthika, T.K.Radhakrishnan, P. Kalaichelvi	Use of Ionic Solvents as Alternate solvents for Crystallization	CHEMCON 2015	Guwahati	2015
9.	Nikhil Avantsa, V.Kirubakaran, T.K.Radhakrishnan P.Kalaichelvi	Design of sliding Mode Controller for an Ideal Reactive Distillation Column	Energy System Modeling and Optimization Conference (ESMOC 2013)	NIT, Dhurgapur	2013
10.	Dheeraj Kumar, P.Kalaichelvi , K.Muthuamizhi, T.K.Radhakrishnan	Heat transfer enhancement in additives in plate heat exchanger	Energy System Modeling and Optimization Conference (ESMOC 2013)	NIT, Dhurgapur	2013
11.	P.Augusta and P.Kalaichelvi	Study on Removal of Emulsified Oil from Coolant	4th International Conference on	Kurukshetra	2013

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		Water using corn husk	Emerging Trends in Engineering and Technology		
12.	Shankar P, Himanshu Vyas, Kalaichelvi Ponnusamy , Muthamizhi Karuppanan	Experimental Analysis of mixing characteristics of carboxymethyl cellulose solution (0.5%) in a double jet mixer	ICEEC	Malaysia	2011
13.	Akhil Mohan .B, Muthamizhi .K, Dheenathayalan. K, Majid MA and Kalaichelvi. P.	Modeling and simulation of corrugated plate heat exchanger	International Conference on Recent Advances in Chemical Engineering and Technology	Cochin	2011
14.	Muthamizhi. K, Akhil Mohan .B, Kalaichelvi .P and Dheenathayalan. K	Need to analyze the performance of plate heat exchanger using non-newtonian fluids	International Conference on Recent Advances in Chemical Engineering and Technology	Cochin	2011
15.	Subbarao Cherukuri, Kalaichelvi. P and Arunagiri. A	Studies on Removal of Dye Using Cloud Point extraction	International Conference on Recent Advances in Chemical Engineering and Technology	Cochin	2011
16.	Harika Sammeta, Kalaichelvi Ponnusamy , M.A.Majid, Dheenathayalan K	Effect of number of channels on performance charts for parallel flow corrugated plate heat exchanger	10th ISHMT	IIT, Madras	2011
17.	Kalaichelvi. P , Raja. T, C.Shanawaskhan and Ananthraman .N	Mixing characteristics of a double jet mixer with hemispherical bottom using toluene as working fluid	Thirty Seventh national & Fourth International conference on Fluid Mechanics and Fluid Power	IIT, Madras	2010
18.	Shankar. P, Himanshu Vyas, Kalaichelvi .P and Dheenathayalan .K	A computational fluid dynamic analysis of mixing characteristics in a jet mixing for power law fluid	CHEMCON 2010	Anamalainagar , Chidambaram	2010
19.	Akhil Mohan.B, Kalaichelvi. P and Dheenathayalan .K	Modeling and Simulaçõn of Plate Heat Exchanger using Power Law Fluid as Cold fluid	CHEMCON 2010	Anamalainagar , Chidambaram	2010
20.	Kiran.P, Subbarao Cherukuri,	Estimation of Design and Thermodynamic Parameters	CHEMCON 2010	Anamalainagar , Chidambaram	2010

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	Kalaichelvi. P and Arunagiri. A	for the Cloud Point Extraction of Phenol using Tween 80			
21.	Duraimurugan M.D. alias Saravan, Kalaichelvi. P and Arunagiri. A	Cloud Point Extraction of Phenol using TX-100 as Non-Ionic Surfactant	CHEMCON 2010	Anamalainagar , Chidambaram	2010
22.	Selvakumar, K.V. C.Ahmed Basha, H.J.Prabhu and Kalaichelvi.P	Integration of Electrochemical , Microbial and Photo catalytic Processes for the degradation of textile dye Procion Blue	CHEMCON 2010	Anamalainagar ,Chidambaram	2010
23.	Kirankumar R, Kalaichelvi. P and Dheenathayalan. K	Energy and exergy analysis of plate heat exchanger	International conference on advances in renewable energy	Maulana Azad National Institute of Technology, Bhopal	2010
24.	Kalaichelvi. P. , Dheenathayalan. K., Majid MA and Harika. S	Plate heat exchangers for energy conservation	International Conference on Energy Engineering – ICEE2009	Pondicherry Engineering College	2009
25.	D.K. Shanmugapriya, P.Kalaichelvi , T. Murugesan, A. Arunagiri	Removal of phenol using cloud point extraction	CHEMCON 2009	Vishakhapatnam	2009
26.	Manjula. P. Kalaichelvi. P and Dheenathayalan. K	Modeling and simulation of double jet mixer	Impact of chemical Engineering and Biotechnology on Process Industries in the New Millennium	St. Joseph's College of Engineering, Chennai	2009
27.	Harika. S., Kalaichelvi. P , Majid MA and Dheenathayalan. K.	Modeling and simulation of counter flow plate heat exchanger	Impact of chemical Engineering and Biotechnology on Process Industries in the New Millennium	St. Joseph's College of Engineering, Chennai	2009
28.	Kalaichelvi. P. , Majid Ma, Dheenadhayalan. K., Arunagiri. A. and Perumalsamy. M.	Computational Fluid Dynamic analysis of heat and fluid flow inside a plate heat exchanger	National Conference on Emerging Trends in Chemical Engineering	NIT, Surat	2008
29.	Sendilkumar. K., Kalaichelvi. P , Perumalsamy. M.,	Computational Fluid Dynamic analysis of mixing characteristics inside a jet	WCECS 2007, The World Congress on	USA	2007

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	Arunagiri. A. and Raja. T.	mixer for newtonian and non newtonian fluids	Engineering and Computer Science		
30.	Raja. T, Kalaichelvi. P and Ananthraman .N	A simulation study on optimum orientation of the nozzle in a double jet mixed tank with hemispherical bottom	International Conference on Modeling and Simulation CITCOMS2007	CIT, Coimbatore	2007
31.	Murugesan.T., Kalaichelvi. P. and Arunagiri. A.	Prediction of gas phase holdup in a co-current gas-liquid upflow through packed beds	CHEMCON 2007	Kolkatta	2007
32.	Kalaichelvi.P. , Perumalsamy. M., Arunagiri. A., Raja. T., Sentilkumar. K and Shanawaskhan. C	Modeling and simulation of jet mixers for non-newtonian fluid using computational fluid dynamic	CHEMCON 2007	Kolkatta	2007
33.	Indhumathi. S.R., Kalaichelvi. P. and Radhakrishnan.T.K.	Control system design for ideal reactive distillation column	CHEMCON 2007	Kolkatta	2007
34.	Ramachandran.S, Kalaichelvi.P and Sundaram.S	Experimental heat transfer correlations for water octane two phase system in a spiral plate heat exchanger	Chemeca'06	University of Auckland, New Zealand	2006
35.	Ramachandran.S, Kalaichelvi.P and Sundaram.S	Two phase experimental correlations for compact heat exchangers	11 th APCCChE Congress	Kuala Lumpur, Malaysia	2006
36.	Nirmalavarthini.P, Ganesh Moorthy.I, Senthilkumar.S and Kalaichelvi.P	Experimental and correlation verification of phenolic pollutant removal from a food industry effluent using mixed solvent extraction	SAFE'06,	Cochin University of Science and Technology, Cochin	2006
37.	Kalaichelvi.P , Arunagiri.A, Radhakrishnan.T.K. and Mohanraj.S	Optimization of process parameters for production of propylene glycol monomethyl ether (PGMME)	CHEMCON 2006	Ankleshwar	2006
38.	Raja. T, Kalaichelvi. P and Ananthraman .N	Experimental studies on a liquid jet mixed tank	Reactions 2005, An International Technical Symposium	Chennai	2005
39.	Kalaichelvi. P , Sundaram. S, Radhakrishnan T.K and Sofiya.K	Modeling and experimental verification of mixed solvent extraction of acetic acid	CHEMCON 2005	Indian Institute Technology, Delhi	2005
40.	Athimathi. S, Radhakrishnan T.K. and Kalaichelvi. P	Model development and control of a reactive distillation process	CHEMCON 2005	Indian Institute Technology, Delhi	2005
41.	Kalaichelvi. P. ,	Technical paper on Batch	National seminar	Cochin	2004

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	Sundaram.S., Kalpana. N and Ashok N.	bioleaching	on Value addition to Beach Sand Minerals		
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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
P. Augusta, P. Kalaichelvi , K.N.Sheeba and A.Arunagiri	Innovative Technologies for the Treatment of Industrial Waste Water	Apple Academic Press	2017	978-177-46-3684-8
S.Karthika, T.K.Radhakrishnan, and P.Kalaichelvi	Crystallization process modelling – A review	Research Signpost	2017	pp1-35
Indulekha John, Gokul Siddarth M S, P. Kalaichelvi , and A. Arunagiri	Characterization of Citrus Peels for Bioethanol Production, in: Materials. Energy and Environmental Engineering	Springer	2017	978-981-10-2674-4
Divya P Soman, P Kalaichelvi and T K Radhakrishnan	Artificial Neural Network and Response Surface Methodology Modelling of Surface Tension of 1-butyl-3-methylimidazolium bromide solution	Springer	2017	978-981-10-8656-4