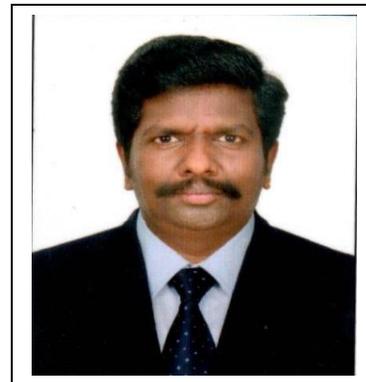


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Curriculum Vitae



Profile:

Dr.M.Perumalsamy is a faculty in the Department of Chemical Engineering at National Institute of Technology, Tiruchirappalli from 2006 onwards, He has obtained his doctoral degree from A.C.Tech, Anna University, Chennai. He was working as a Teaching Research Associate at A.C.Tech, Anna University, Chennai during 2002-2006. He has served as Associate Dean (Academic and Student's welfare) at the Institute level during 2012-2015.

He is a recipient of DST Young scientist award during 2010. He has visited University of Iowa, USA as a visiting scientist and carried out research work on separation and purification of Caffeine Dehydrogenase in *Pseudomonas* sp. Strain CBB1. He has published more than 60 International papers in reputed journals and conference proceedings. His field of Interest includes Separation of Proteins using Aqueous Two Phase System, Computational Fluid Dynamics, Biofuels and Waste water Treatment.

1. Name : Dr. M.Perumalsamy
2. Designation : Associate Professor
3. Department : : Chemical Engineering
National Institute of Technology, Trichy
4. E-mail ID. : mpsamy@nitt.edu
5. Phone : 04312503112
6. Field(s) of Specialization :

Separation of Proteins using Aqueous Two Phase System (ATPS),
Computational Fluid Dynamics (CFD), Biofuel from Microalgae,
Biological Waste Water Treatment, Microbial Desalination Cell

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7. Employment Profile

Job Title	Employer	From	To
Associate Professor	National Institute of Technology Trichy	March 2018	Till date
Assistant Professor	National Institute of Technology Trichy	Oct 2010	March 2018
Lecturer	National Institute of Technology Trichy	April 2006	Oct 2010
Teaching Research Associate	Anna University Chennai	March 2002	Feb 2006
Programmer analyst	Engineering System Solutions USA	Dec 2000	July 2001

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

Examination	Board / University	Year	Subjects
Ph.D	Anna University Chennai	2007	Studies in Aqueous Two-Phase System (Phase behavior, Thermodynamic modeling and Partitioning of BSA)
M.Tech	Anna University Chennai	2000	Chemical Engg
B.E	Annamalai University Chidambaram	1998	Chemical Engg
HSC	Tamilnadu State Board	1994	Maths, Physics, Chemistry, Biology
SSLC	Tamilnadu State Board	1992	Maths, Science

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
NEP2020-Online Degree Subcommittee -Member	NIT Trichy	August2021	Till date
Member-Transport Committee	NIT Trichy	December2020	Till date
Verification Officers-JoSSA2021	NIT Trichy	September 2021	Oct2021
Observer- Group B and C Recruitment	NIT Trichy	July 2021	July 2021
Verification Officers-JoSSA2020	NIT Trichy	November 2020	Oct2020
Deputy Center In-charge-UG Admission	NIT Trichy	January 2018	February 2020
Institute Core Committee Member-CSAB2019 CSAB2019 UG Admission	NIT Trichy	May 2019	November 2019
Associate Dean (Academic)	NIT Trichy	October 2012	November 2015
Associate Dean (Student's Welfare)	NIT Trichy	October 2012	November 2015
Warden for GARNET A Hostel	NIT Trichy	July 2012	November 2015
NSS Coordinator	NIT Trichy	Oct 2010	April 2016
NSS Programme Officer	NIT Trichy	July 2006	Oct 2010
Department Coordinator for TEQIP-II &III	Dept of Chemical Engineering, NIT Trichy	2010	till date
Institute Core Committee Member-CSAB2019	NIT Trichy	May 2019	
Institute Anti-Ragging Committee	NIT Trichy	July 2019	
Formative Assessment Monitoring Committee	NIT Trichy	September 2014	
Senate-sub-committee on Academic Reforms	NIT Trichy	May 2015	
First Year Coordinator	NIT Trichy	June 2016	September 2016

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Committee Member for tender approval –outsourced Security	NIT Trichy	January 2013	
Staff Advisor- Chemical Engineering Association	NIT Trichy	July 2010	June 2011
Chairman –Performance Analysis Committee	Dept of Chemical Engineering, NIT Trichy		
Organizing Committee Member-Curriculum Conclave 2015	NIT Trichy	February 2015	April 2015
Committee Member-Temporary Faculty (Adhoc) recruitment	NIT Trichy	24.06.2013	
Committee Member –Result verification for all B.Tech and B.Arch Programmes	NIT Trichy	20.05.2013	
Ph.D- Admission Coordinator- Chemical Engineering Dept	NIT Trichy	July 2011	
Member –Committee for Digital Class Room Solutions	NIT Trichy	16.02.2012	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
External Expert Member-Performance review for Prime minister formalization of micro food processing enterprises scheme	National Institute of Food Technology, Entrepreneurship and management, Thanjavur	24.01.22	
Session Chair and Coordinator- RTAMGESE-2021	National Institute of Technology Trichy	12.3.2021	13.3.2021

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Expert Member- SRF& Project Assistant Selection Committee	Indian Institute of Food Processing Technology Thanjavur	25.10.2019	
Expert Member – selection committee of JRF& Young Professional at ICAR-NRCB	National Research Centre for Banana, Trichy	30.05.2018	
Expert Member- Contractual Faculty selection committee	Indian Institute of Food Processing Technology Thanjavur	19.03.2018	
Ph.D thesis evaluation examiner	Coimbatore Institute of Technology Coimbatore	21.03.2018	
Ph.D Viva-voce Expert member	A.C.Tech, Anna University, Chennai	8.11.2017	
Member- Board of Studies	Anna University, Chennai	07.11.2017	
Ph.D thesis evaluation examiner	Coimbatore Institute of Technology Coimbatore	6.10.2017	
Expert member- Contractual Faculty selection committee	Indian Institute of Food Processing Technology Thanjavur	11.05.2017	
Expert member – selection committee of SRF at ICAR-NRCB	National Research Centre for Banana, Trichy	05.02.2016	
Expert member for review of question Papers for B.Tech Chemical Engineering	Pondicherry University, Puducherry	5.11.2016	
Member- Board of Studies	Anna University, Chennai	2.11.2016	
Convener of Viva-voce Board	Manonmanium Sundaranar University, Tirunelveli	18.10.2013	
External Examiner for the M.Tech (Biotechnology) Project work and Viva-voce Examination	Sastra University, Thanjavur	20.05.2013	
Member in Board of Studies	PRIST University, Thanjavur	14.05.2012	

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2018	Best Researcher Award	NIT Trichy
2017	Best Researcher Award	NIT Trichy
2010	Young scientist award	DST, New Delhi

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2002	Teaching Research Associate Fellowship	Anna University Chennai	March 2002	February 2006

13. Details of Academic Work

(i) Curriculum Development

1. Chemical Process simulation lab for M.Tech Student is developed at Chemical Engineering Department
2. Course plan for theory subject, momentum transfer is prepared
3. Course plan for theory subject, Computational Fluid dynamics is prepared

(ii) Courses taught at Postgraduate and Undergraduate levels

S.No	Name of the Subject	B.Tech/M.Tech/Semester
1.	Momentum Transfer	B.Tech III Semester
2.	Biotechnology	B.Tech VII Semester
3.	Material Science and Technology	B.Tech, IV Semester
4.	Process Engineering and Economics	B.Tech VIII Semester
5.	Computational Fluid Dynamics	M.Tech II Semester
6.	Organic Chemical Technology	B.Tech IV Semester
7.	Inorganic Chemical Technology	B.Tech III Semester
8.	Mechanical Operation laboratory	B.Tech IV Semester
9.	Chemical Reaction Engineering Lab	B.Tech V Semester
10.	Mass Transfer Laboratory	B.Tech VI Semester
11.	Process Control laboratory	B.Tech VII Semester
12.	Momentum Transfer Laboratory	B.Tech IV Semester
13.	Chemical Process Modelling and Simulation Lab	M.Tech I Semester

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4. Projects guided at Postgraduate level

Title of the M.S thesis Guided

S.No	Name of the Student	Title of the thesis	Year of completion
1	P. Sreekanth Chowdary (302109001)	Isolation of Cheese Whey Proteins using Aqueous Two Phase System	2011

Titles of PG Dissertations Guided

S.No	Name of the Student (Roll No)	M.Tech Specilization	Title of the Project	Year
1.	Murtaza Cochinwala (2 02119015)	Chemical engineering	Optimization of biofuel production From microalgae	2021
2.	Murtaza Cochinwala (2 02119015)	Chemical engineering	Optimization of biofuel production From microalgae	2020
3.	Dangeti shree Phani Kalyan (202119007)	Chemical engineering	Design of a bioreactor for the growth of microalgae using CFD	2021
4.	Dangeti shree Phani Kalyan (202119007)	Chemical engineering	Design of a bioreactor for the growth of microalgae using CFD	2020
5.	Yalamarathi Ravikiran (202219021)	Process Control and Instrumentation	Modelling and control of Multi input multi output Non-linear chemical process	2021
6.	Yalamarathi Ravikiran (202219021)	Process Control and Instrumentation	Modelling of non-linear chemical Process using machine learning Techniques	2020

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7.	M.S.Dinesh Chandra (202118004)	Chemical engineering	Production of biodiesel from microalgae using transesterification	2020
8.	M.S.Dinesh Chandra (202118004)	Chemical engineering	Growth of microalgae in wastewater for biodiesel production	2019
9.	R V Mohan Malavya (202117022)	Chemical engineering	Production of biodiesel from custard apple seeds	2019
10.	R V Mohan Malavya (202117022)	Chemical engineering	Production of Biodiesel using custard apple seeds and egg shell as a catalyst	2018
11.	Meghana.A.D (202117001)	Chemical engineering	Production of biodiesel from <i>scenedesmus abundans</i> by in-situ transesterification	2019
12.	Meghana.A.D (202117001)	Chemical engineering	Simulation and optimization of biodiesel production plant	2018
13.	Monika S (202116020)	Chemical engineering	Extraction of lignin and pectin from biological source using aqueous two phase system	2018
14.	Monika S (202116020)	Chemical engineering	Characterization of aqueous two phase system for extraction of pectin and lignin	2017
15.	Mohammed suhair K.P (202115024)	Chemical engineering	Process Simulation of Extractive Distillation using ASPEN PLUS	2017
16.	Mohammed suhair K.P (202115024)	Chemical engineering	Process simulation of 1Butene and n Butane separation by extractive Distillation using aspen plus	2016
17.	Srinivas kuchibhotla (202114013)	Chemical Engineering	Energy Efficiency Enhancement in Continuous Pusher type furnace with dual fuel system	2016

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18.	Srinivas kuchibhotla (202114013)	Chemical Engineering	Production of Biodiesel from Microalgae	2015
19.	Aniket Bhate (202114009)	Chemical Engineering	Dynamic Simulation of Centrifugal compressor system in Aspen Hysys	2016
20.	Aniket Bhate (202114009)	Chemical Engineering	Design of Heat Exchanger using Aspen Exchanger design and Rating	2015
21.	Ashish B. Tonge (202113003)	Chemical Engineering	Computational Fluid dynamics simulation of coal gasification	2015
22.	Ashish B. Tonge (202113003)	Chemical Engineering	Computational Fluid dynamics simulation of coal gasification	2014
23.	J. Sankar (202112020)	Chemical Engineering	Computational Fluid dynamics Modelling of hydrodynamics and Reaction kinetics in a fluidized bed reactor	2014
24.	J. Sankar (202112020)	Chemical Engineering	Computational Fluid Dynamics Modelling of Heat and Mass Transfer Parameters in Fluidized bed dryer	2013
25.	Jayesh Krishnakumar (202112011)	Chemical Engineering	Modeling of coal Gasification using Computational Fluid dynamics	2014
26.	Jayesh Krishnakumar (202112011)	Chemical Engineering	Modeling of coal Gasification using Computational Fluid dynamics	2013
27.	S. Keren Jenifer (202311011)	Energy Engineering	Potential Algal –Bacterial Consortium response to the biodegradation of Textile dyes	2013
28.	S. Keren Jenifer (202311011)	Energy Engineering	Potential microalgal degradation of Textile effluent containing azo dyes	2012
29.	Kishore Ravindran (202111023)	Chemical Engineering	Economic and energy analysis of extractive distillation using Aspen	2013

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			Engineering Suite	
30.	Kishore Ravindran (202111023)	Chemical Engineering	Energy and Economic Analysis of Extractive distillation using Aspen Engineering Suite	2012
31.	Gokul Balan (202111017)	Chemical Engineering	Extraction of Proteins using magnetic Aqueous two phase system	2013
32.	Gokul Balan (202111017)	Chemical Engineering	Extraction Of Proteins Using Magnetic Nanoparticles	2012
33.	Rompicherla Sreevidya (202110018)	Chemical Engineering	A 3D CFD simulation of coal gasification in entrained flow and fluidized bed gasifier	2012
34.	Rompicherla Sreevidya (202110018)	Chemical Engineering	Characterization of Hydrodynamics of gas-liquid-solid Three phase fluidized bed using CFD	2011
35.	Divyashree (202310013)	Chemical Engineering	Microbial degradation of Textile Azo dyes	2012
36.	Divyashree (202310013)	Chemical Engineering		2011
37.	Tirtha Prasad Sapkota (202109034)	Chemical Engineering	Modeling of devolatilization and particle size effects on the performance of entrained flow gasifier for Indian coal feed	2011
38.	Tirtha Prasad Sapkota (202109034)	Chemical Engineering	Modeling of devolatilization on the performance of entrained flow gasifier for different feed types	2010
39.	K.Divya (202109015)	Chemical Engineering	Thermodynamic Modelling of Aqueous two phase system	2011
40.	K.Divya (202109015)	Chemical Engineering	Characterization of PEG -tri- ammonium citrate based aqueous two phase systems	2010

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41.	P.Praveen kumar (202107010)	Chemical Engineering	Recovery of toluene from para xylene plant	2010
42.	P.Praveen kumar (202107010)	Chemical Engineering	Design, Simulation And Economics Of Toluene Recovery Unit In Px- Plant	2009
43.	Mohamed Iqbal Batcha I (202108001)	Chemical Engineering	Studies on partitioning behaviour of model protein in polymer-salt based aqueous biphasic system	2010
44.	Mohamed Iqbal Batcha I (202108001)	Chemical Engineering	Studies on partitioning behaviour of model protein in polymer-salt based aqueous biphasic system	2009
45.	Gopiraju Tadiboina (202108015)	Chemical Engineering	Simulation of optimization of efficient capturing of CO ₂ from a coal fired power plant	2010
46.	Gopiraju Tadiboina (202108015)	Chemical Engineering	Simulation and optimization of extractive distillation with mono ethanol amine as a solvent	2009
47.	K.SenthilKumar (202207022)	PCI	Simulation and Optimization of Extractive distillation of Cyclohexane- Ethanol using Mono-ethanolamine as solvent	2009
48.	K.SenthilKumar (202207022)	PCI	Optimization of Extractive distillation of Cyclohexane-ethanol	2008
49.	P.Bharat kumar (202107003)	Plant Design	Studies on partitioning of Bovine serum albumin in Aqueous two phase system	2009
50.	P.Bharat kumar (202107003)	Plant Design	Separation of Proteins using Aqueous two phase system	2008
51.	T.K.Radhakrishnan (CLA-0609)	Plant Design	Experimental and Computational studies on three phase Fluidized bed	2008
52.	T.K.Radhakrishnan	Plant Design	Computational study of fluidized bed	2007

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	(CLA-0609)		Hydrodynamics	
53.	J.Saravanan (CLA-0603)	Plant Design	Hydrodynamics and CFD Simulation of Rotating Disc Contactor	2008
54.	J.Saravanan (CLA-0603)	Plant Design	CFD simulation of Rotating disk contactor	2007
55.	N.A.Manikandan (CLA-0608)	Plant Design	Comparison of experimental and computational studies of continuous stirred tank reactor	2008
56.	N.A.Manikandan (CLA-0608)	Plant Design	CFD simulation of Continuous Stirred Tank Reactor	2007
57.	Karthikaruppu (ENA0506)	Energy	Simulation of wind blade using CFD software	2007
58.	Karthikaruppu (ENA0506)	Energy	Simulation of Solar PV FED Motor controller for water pumping Application	2006
59.	Ganesan (CLA0506)	Plant Design	CFD Simulation of Airlift Reactor	2007
60.	Ganesan (CLA0506)	Plant Design	CFD Simulation of Airlift Reactor	2006

UG Projects Detail:

S.No	Project Title	Year
1.	Manufacture of Polyisobutylene	2021
2.	Production of Biodiesel Using Algal Biomass	2021
3.	Manufacture of Whey Protein	2020
4.	Carbon Dioxide Fischer-Tropsch Synthesis a New Path to Carbon-Neutral Fuels	2020
5.	Design of Xylene Manufacturing Plant	2019
6.	Production of Polypropylene Co-Polymer	2019
7.	Manufacture of Dimethyleformamide	2018
8.	Manufacture of Sodium Lauryl Sulphate	2018
9.	Manufacture of Mono Propylene Glycol	2018
10.	Manufacture of Toluene	2017
11.	Manufacture of Mixed Xylenes by Catalytic Reforming Using Naptha	2017

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12.	Production of Salicylic Acid	2016
13.	Design of Caprolactam Manufacturing Unit	2016
14.	Plant Design for Production of Cumene via Alkylation of Benzene	2015
15.	Design of Polyvinyl Chloride Manufacturing Plant	2015
16.	Manufacture of Acetaldehyde	2014
17.	Manufacture of Ethanol	2014
18.	Manufacture of Polyethylene Terephthalate	2013
19.	Manufacture of Ortho-Xylene	2013
20.	Manufacture of Citric Acid	2012
21.	Production of Acrylic Acid	2012
22.	Production of Propylene Oxide	2011
23.	Manufacture of Terephthalic Acid From Oxidation of Para-Xylene	2010
24.	Manufacture of Phenol From Cumene	2009
25.	Manufacture of Hydrogen Peroxide	2008
26.	Manufacture of Titanium Dioxide	2007

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14. Details of Major R&D Projects

S.No	Title of Project	Funding Agency	Amount (Rs. In Lakhs)	Duration		Status
				From	To	Ongoing/ Completed
1.	Downstream processing for utilization of banana wastes for natural fibre production, biomass briquettes and edible packages	DBT, New Delhi	26.3	2018	2021	Ongoing
2.	Development of pedagogical course on “Computer Aided design” under National Mission Project on Education through ICT, coordinated by IIT, Kharagpur	MHRD, New Delhi	7	2017	2018	Completed
3.	A new vision for quality planting material (QPM) production system in India	Indian Council of Agricultural Research, New Delhi	39.33	2016	2017	Completed
4.	Environmentally benign aqueous two phase system for effective separation of cheese whey proteins(α -lactalbumin and β -lacto globulin) from dairy effluents	DST, SERC, New Delhi	14	2010	2013	Completed
5.	Analysis of Flow and Heat Transfer Characteristics of Single and Two Phase Flow through Plate Heat Exchanger	CSIR, New Delhi	13.94	2010	2013	Completed

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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
V.R.V.Ashwaniy	Microbial desalination cell: An integrated technology for desalination, wastewater treatment and renewable energy generation	Supervisor	2020
C.Chellamboli	Optimization of microalgae growth and lipid production for the synthesis of biodiesel	Supervisor	2019
K.S.Parthiban	Synthesis and characterization of solid acid catalyst for biodiesel production	Supervisor	2017
R.Govindarajan	Environmentally Benign Aqueous Two-Phase System for Effective Separation of Cheese Whey Proteins	Supervisor	2014
B. Vanavil	Studies on Control and Optimization of Bioprocesses	Co-Supervisor	2014
S.Senthilkumar	Studies on treatment of textile dye effluent using sequential and integrated Electrochemical process with Biological oxidation	Co-Supervisor	2012

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

SUMMER/WINTER SCHOOL ATTENDED:

Sl. No.	Title	Organization/Place	Duration
1.	Faculty Development programme on Artificial Intelligence and machine learning	IIT, Bombay	23-25 April 2019
2.	Introduction to deep learning and Machine learning with application to engineering systems	IIT, Bombay	23-25 February 2019

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3.	Two day ISTE Workshop on Akash for Education	IIT, Bombay	10-11 th November 2012
4.	Summer Workshop on “Bioprocess Technology”	IIT, Madras, Chennai	12-21 July 2010 (10days)
5.	DST-SERC School on Optimization Techniques for Chemical Engineering Applications	IIT Bombay, Mumbai	July 6–11, 2009 (6days)
6.	MHRD-AICTE Sponsored Summer School on Process Identification and Control	NIT, Trichy	16-28 th June 2008 (13 days)
7.	SERC School on “Advanced measurement techniques in multiphase systems”	DST, UICT, Mumbai	25-27 April’2007 (3days)
8.	Short term training program on “Recent Advances in Environment, safety and Energy Management”	QIP, NIT, Trichy	5-9, February 2007. (5days)
9.	Short term course on “Computational Fluid Dynamics”	C-DAC, Pune	11-15 Dec’ 2006 (5days)
10.	Short term course on “CFD of Convective Heat and Mass Transfer”	Centre for CFD, IIT, Madras, Chennai	September 18-22, 2006 (5days)
11.	Refresher course on “Applications of chemical engineering principles for Biotechnology”	UGC, A.C.Tech, Anna University, Chennai	14 th November -3 rd December’ 2005 (20 days)

WORKSHOPS ATTENDED:

Sl. No.	Title	Organization/Place	Duration
1.	Two week ISTE Workshop on Computational Fluid dynamics	IIT, Bombay	12-22 nd June 2012

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2.	Work shop on Sustainable Technologies for future	NIT,Trichy	13th December 2008
3.	Awareness Programme on Intellectual Property Rights	NIT,Trichy	20 th November 2008
4.	Work shop on Advanced Chemical Process Design	NIT,Trichy	20 th October 2008
5.	Work shop on Rural Development Role of Renewable Energy Services	TEQIP	9 th June, 2008
6.	Workshop on Nanomaterials Characterization and their Process Applications	TEQIP	28 th February, 2008
7.	Workshop on Recent Trends in Waste water Treatment	TEQIP	27 th February 2008
8.	Workshop on Non-Linear Control Systems	TEQIP	21 st February, 2008
9.	Workshop on Computational Fluid Dynamics	TEQIP	17-18, September' 2007 (2days)
10.	Workshop on Finite Element Methods for Engineers	TEQIP	1-2 February, 2007

CONFERENCES ATTENDED:

Sl. No.	Title	Organization/Place	Duration
1.	International Conference on Advances And Challenges For Sustainable Eco System (ICACSE2018)	NIT Trichy	6-8 December 2018
2.	International Conference on Chemical and Biological Processes (ICCBP-2015)	Dubai	22-24 November 2015

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3.	2 nd International Chemical and Environmental Engineering Conference (ICEEC 2011)	Kuala Lumpur, Malaysia	21-23 December 2011
4.	International Conference on Recent Advances in Chemical Engineering and Technology (RACET 2011)	Cochin	10-12 March, 2011
5.	5 th International Conference on Trends in Industrial Measurements and Automation 2007 (TIMA 2007)	National Institute of Technology, Trichy	4 -6 th January 2007
6.	International Conference on Nanomaterial and its Applications	National Institute of Technology, Trichy	4 th -6 th February 2007
7.	59 th Annual session Chemical engineering congress CHEMCON 2006	Ankleshwar regional Centre, Gujarat	December, 27-30, 2006
8.	Conference on "Role of Technical Education in Sustainable Development	Anna University, Chennai -25	March 24-26, 2005

FACULTY DEVELOPMENT PROGRAMME ATTENDED:

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by and Venue
18-20 December 2019	Kalasalingam global conference kgc-2019 International Conference on Sustainable Development	International	Chairperson	Kalasalingam Academy of Research and Education, Srivilliputtur
5-6 th October 2012	Two days faculty orientation programme on class room management and Communication	National	Participant	NIT Trichy

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29 th Nov- 10 th Dec 2011	Two day ISTE Workshop on Heat Transfer	National	Participant	IIT, Bombay
14-24 th June 2011	Two day ISTE Workshop on Thermodynamics in Mechanical Engineering	National	Participant	IIT, Bombay
4 th -9 th January 2010	AICTE-MHRD Sponsored staff development programme on Computer Control of Processes	National	Participant	NIT, Trichy
21 st Dec 2009-2 nd Jan 2010	AICTE-MHRD Sponsored staff development programme on Quantitative Research Techniques for engineers and Researchers	National	Participant	NIT, Trichy
13-17 th July 2009	AICTE-MHRD Sponsored staff development programme on Chemical Systems modeling and Simulation	National	Participant	NIT, Trichy
August 21-27	Attended Pedagogy Training on	National	Participant	NITTTR, Chennai

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2008 (7days)	“Instructional Design and delivery system”			
4 th July to 13 th July 2007 (10days)	Faculty Development Training Programme on ANSYS software package.	National	Participant	Active India pvt Ltd, Bangalore
June 20- 29 th 2007 (10 days)	General Orientation and Training for NSS Programme officers	State level	Participant	NSS, Madras School of Social Work, 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
One week workshop on Computational Fluid Dynamics: Basics and applications	National	1-6 th July 2019	Coordinator	NIT Trichy
Workshop on Recent Development in waste water treatment Technologies	National	May 6&7, 2016	Coordinator	NIT Trichy
Conclave on “Strengthening chemical Engineering curriculum for the Present and Future scenario”	National	March 13 & 14, 2015	Coordinator	NIT Trichy
Modeling and simulation of chemical Processes using ASPEN PLUS	National	3-5 December 2014	Coordinator	NIT Trichy
Short term course on Piping Technology	National	27-29 March 2014	Coordinator	NIT Trichy

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Short term course on “ASPEN plus software	National	19-20 September 2013	Coordinator	NIT Trichy
Two days workshop on “Application of Chemical Engineering Principles in Biotechnology”	National	28-29 June 2013	Coordinator	NIT Trichy
One day Awareness programme on Drug abuse and addiction	National	18 th February 2013	Coordinator	NIT Trichy
One day Disaster Management programme	Local	2 nd October 2010	Coordinator	NIT Trichy
One day workshop on Bioseparation Techniques	National	14 th April 2007	Coordinator	NIT Trichy

18. INVITED TALKS DELIVERED

Sl. No	Name of the topic	Programme	Date	Organization
1.	Role of nanotechnology in biofuel synthesis	AICTE Sponsored STTP on Expanding Horizons of Nanotechnology in Engineering, Medicine and Biotechnology Series-II	24 th August 2020	Coimbatore Institute of Technology, Coimbatore
2.	Keynote address on Sustainability of Biochemical Engineering Research	Kalasalingam global conference kgc-2019	18-20 December 2019	Kalasalingam Academy of Research and Education,

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		International Conference on Sustainable Development		Srivilliputtur
3.	Biofuel synthesis and Characterization	International Workshop on sustainability of Biofuels	15 February 2018	Mahendra Institute of Engineering and Technology, Tiruchengode
4.	Separation of biopolymers Using Aqueous Two Phase System	AICTE Quality Improvement Programme on “Nano & Functional Materials (Nano-FM 2017)”	1–7 March 2017	Coimbatore Institute of Technology, Coimbatore
5.	Biopolymers and its Application	AICTE Quality Improvement Programme on “Nano & Functional Materials (Nano-FM 2017)”	1–7 March 2017	Coimbatore Institute of Technology, Coimbatore
6.	Computer Applications in Chemical Engineering	Students Seminar	10 th February 2017	CECRI, Karaikudi
7.	Basics of Computational Fluid Dynamics	TEQIP-II Sponsored two days’ workshop on New challenges for young professionals in materials engineering	7 th October 2016	Coimbatore Institute of Technology, Coimbatore
8.	Introduction to Computational Fluid Dynamics	TEQIP-II Sponsored course on “Conceptual mechanisms of Transport Operations in Chemical and Biochemical processes	23 rd August 2016	NIT, Tiruchirappalli

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9.	Chemical engineering future perspectives	National Level Technical symposium	12.10.2015	SASTRA University, Thanjur
10.	Handled CFD Lab session	AICTE Sponsored Faculty development Programme on “Quantitative Research Techniques for Engineers & Researchers”	21 Dec 2009 – 2 nd Jan 2010	NIT, Tiruchirappalli
11.	Two-Phase Systems For The Extraction Of Protein/Biomolecules	Faculty development Programme on “Chemical Systems Modeling and Simulation	13 - 17th July 2009	National Institute of Technology Trichy
12.	Bioseparation Techniques	Workshop on “Bioseparation Techniques”	14 April 2007	NIT, Tiruchirappalli
13.	Demonstration on CFD fluent software	Workshop on Computational Fluid Dynamics	17-18 th September 2007	NIT, Tiruchirappalli
14.	Aqueous two phase systems for the biomolecules separation	Workshop on Multiphase flow and Process Industries	24 th March 2007	NIT, Tiruchirappalli

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Institute of Chemical Engineers Association (IChE)	LM31988
Life Member	Indian Society for Technical Education	LM53830

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	(ISTE)	
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20. Academic Foreign Visits

Country	Duration of Visit	Programme
USA	December 2007 to January 2008	Visiting scientist to University of IOWA, USA
Malaysia	December 2010	Attending international conference
Dubai	November 2015	Attending international conference

21. Publications

(A) PAPERS PUBLISHED IN INTERNATIONAL JOURNALS :

Details
<p>1. Enzymatic Degumming of Banana Fibers by Enterobacter Cloacae PMC04 for Fineness improvisation: An eco-friendly approach, Journal of Natural Fibers, https://doi.org/10.1080/15440478.2022.2048937, 2022</p> <p>2. Mira Chares S and M. Perumalsamy, Green degumming of banana pseudostem fibers for yarn manufacturing in textile industries, Biomass Conversion and Biorefinery https://doi.org/10.1007/s13399-022-02850-1, 2022</p> <p>3. Mira Chares S and M. Perumalsamy, Eco-friendly degumming of natural fibers for Textile applications: A comprehensive review, Cleaner Engineering and Technology 5, 100304, 2021</p> <p>4. Ashwaniy, V.R.V, M. Perumalsamy and P. Sivakumar, Enhancing the synergistic interaction of microalgae and bacteria for the reduction of organic compounds in petroleum refinery effluent, Environmental Technology & Innovation, 19, 2020</p> <p>5. A Arunagiri, M Perumalsamy, T SivasankarA. Arunagiri P. Sivashanmugam Suranani Srinath, Advances and challenges for sustainable ecosystems, Environmental Science and Pollution Research,17, 20573-20575, 2020</p>

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6. Ashwaniy, V.R.V. and **M. Perumalsamy**, Influence of key operating parameters and bio-fouling on simultaneous desalination of seawater & reduction of organic wastes from petroleum industrial wastewater *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* 1-16, **2019**
7. Ashwaniy, V.R.V, **M. Perumalsamy** and P. Sivakumar, Photosynthetic Free and Immobilized Cells of *Scenedesmus abundans* for Desalination of Sea Water. *Desalination and water treatment*, 138, 19-26, **2019**
8. V.R.V. Ashwaniy, **M. Perumalsamy**, Reduction of organic compounds in Petro-Chemical Industry Effluent and Desalination using *Scenedesmus abundans* algal Microbial Desalination Cell, *Journal of Environmental Chemical Engineering*, 5, 5961-5967, **2017**
9. Chellamboli, **M. Perumalsamy**, Statistical Study on the Growth of *Chlorella pyrenoidosa* Using the Response Surface Methodology, *Current Biochemical Engineering*, 4,43-59, **2017**
10. Indulekha J, Prasanthi Y, **Perumalsamy M**, Kalaihelvi P, Arunagiri A, Statistical optimization of acid catalyzed steam pretreatment of citrus peel waste for bioethanol production, *Resource-Efficient Technologies* 1–5, **2017**
11. Chellamboli, **M. Perumalsamy**, Synergistic Effect of Hormones and Biosolids on *Scenedesmus abundans* for Eliciting Total Biolipids, *Water Environment Research*, 88, 2180-2190, **2016**
12. K.S.Parthiban and **M Perumalsamy**, Kinetic studies on oil extraction and biodiesel production from Underutilized *Annona squamosa* seed, **Fuel**, 180, 211-217, **2016**
13. K.S.Parthiban and **M Perumalsamy** Development of functionalized heterogeneous catalyst from *Ceiba pentandra* stalk for biodiesel production using *Sterculia foetida* seed oil **Environmental Progress & Sustainable Energy**,35, 308-314(7), **2016**
14. K.S.Parthiban and **M Perumalsamy** Nano sized heterogeneous acid catalyst from *Ceiba pentandra* stalks for production of biodiesel using extracted oil from *Ceiba pentandra* seeds **RSC Advances** ,5, 11180-11187, **2015**
15. S Senthilkumar, **M. Perumalsamy**, HJ Prabhu, N Thajudin Optimization of process

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- parameters for efficient decolorization of Congo red by novel fungus *Curvularia* sp. using Box–Behnken design, **Desalination and Water Treatment**, 54, 1708-1716(9), **2015**
16. Chellamboli, **M. Perumalsamy** Application of response surface methodology for optimization of growth and lipids in *Scenedesmus abundans* using batch culture system **RSC Advances** 4 (42), 22129-22140, **2014**
17. **M. Perumalsamy**, T Murugesan Liquid–liquid equilibrium of aqueous two-phase system (PEG 2000-Sodium Citrate–Water) using potential difference as a key tool **Physics and Chemistry of Liquids** 52 (1), 26-36, **2014**
18. B. Vanavil , A. V.N.L. Anusha , **M. Perumalsamy** & A. Seshagiri Enhanced IMC-PID controller design with lead-lag filter for unstable and integrating processes with time delay, **Chemical Engineering Communications**, 201(11), 1468-1496, **2014**
19. B. Vanavil ,**M. Perumalsamy** & A. Seshagiri Studies on the effects of bioprocess parameters and kinetics of rhamnolipid production by *P. aeruginosa* NITT 6L, **Chemical and biochemical engineering quarterly** 28, 383-390, **2014**
20. S. Senthilkumar, **M. Perumalsamy**, H.J. Prabhua, N. Thajudin Optimization of process parameters for efficient decolorization of Congo red by novel fungus *Curvularia* sp. using Box–Behnken design, *Desalination and Water Treatment*, 54 ,1708–1716, **2015**
21. R.Govindarajan, **M.Perumalsamy.**, Phase Equilibrium of PEG 2000 + Triammonium Citrate + Water System Relating PEG Molecular -- at (298.15, 308.15, and 318.15) K, **Journal of Chemical & Engineering Data**, 58, pp 2952-2958, **2013**
22. Govindarajan, R., Divya, K., **M.Perumalsamy**, Phase behavior and density for binary and ternary solutions of PEG 4000 + triammonium citrate + water aqueous two phase systems at different temperatures *Journal of Chemical and Engineering Data* 58 (2) , pp. 315-321, **2013**
23. B. Vanavil, **M.Perumalsamy**, and A. Seshagiri Rao Biosurfactant Production from Novel Air Isolate NITT6L: Screening, Characterization and Optimization of Media **J. Microbiol. Biotechnol.** 23(9), 1229–1243, **2013**
24. S.Senthilkumar1_, M. Perumalsamy1, H.J. Prabhu “Response surface Optimization for Biodegradation of Textile Azo dyes using isolated bacterial strain *Pseudomonas* sp.” **The Arabian Journal for Science and Engineering** Arab 38:2279–2291, **2013**
25. S.Senthilkumar, **M.Perumalsamy**, Ahmed Basha, C., Selvakumar, K.V., Swaminathan,

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- G., Thajudeen, N., Prabhu, H.J. Biodecolorization of a persistent organic dye from model wastewater using *Curvularia* spp *Desalination and Water Treatment* 46 (1-3) , pp. 272-277, **2012**
- 26.** Senthilkumar, S., Basha, C.A., **M.Perumalsamy.**, Prabhu, H.J Electrochemical oxidation and aerobic biodegradation with isolated bacterial strains for dye wastewater: Combined and integrated approach *Electrochimica Acta* 77 , pp. 171-178, **2012**
- 27.** S.Senthilkumar, **M.Perumalsamy**, H.J.Prabhu C. AhmedBasha, N. Anantharaman “Response surface optimization for efficient dye removal by isolated strain *Pseudomonas* sp.” *Central European Journal of Engineering* 2(3),425-434, **2012**
- 28.** S.Senthilkumar, **M.Perumalsamy**, H.J. Prabhu, C.AhmedBasha, G. Swaminathan “Box Behnken Design based Optimization of Solar Induced Photo Catalytic Decolourization of Textile Dye Effluent” *Central European Journal of Engineering* 1-10, **2012**
- 29.** **M.Perumalsamy** and T.Murugesan “ Extraction of cheese whey proteins (α -Lactalbumin and β -Lactoglobulin) from dairy effluents using environmentally benign aqueous biphasic system” *International Journal of Chemical and Environmental Engineering*, Vol 3(1), pp 502-54, **2012**
- 30.** **M.Perumalsamy** and Mohamed Iqbal Batcha “Synergistic extraction of bovine serum albumin using polyethylene glycol based aqueous biphasic system” *Process Biochemistry*, Vol.46 , pp 494–497, **2011**
- 31.** S. Senthilkumar , **M.Perumalsamy**, H. Janardhana Prabhu Decolourization potential of white-rot fungus *Phanerochaete chrysosporium* on synthetic dye bath effluent containing Amido black 10B *Journal of Saudi Chemical Society*, **50**, **2011**
- 32.** **M.Perumalsamy**, T.Murugesan “Extended NRTL model for PEG + salt based Aqueous two-phase system” *Asia-Pacific Journal of Chemical Engineering* 5(2),pp.355-360, **2010**
- 33.** **M.Perumalsamy** and B. Kumar “Influence of Phase compositions, pH and temperature on Bovine Serum Albumin partitioning in aqueous biphasic system” *Chemical Product and process modeling vol 5*, 1, 19, **2010**
- 34.** **M.Perumalsamy**, T.Murugesan “Phase Compositions, Molar Mass, and Temperature Effect on Densities, Viscosities, and Liquid-Liquid Equilibrium of Polyethylene Glycol and Salt-Based Aqueous Two-Phase Systems” *Journal Of Chemical & Engineering*

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Data, 54 (4), pp 1359–1366, 2009

35. **M.Perumalsamy**, T.Murugesan “Prediction of Liquid–Liquid Equilibria for Polyethylene glycol based Aqueous two-phase system by ASOG and UNIFAC method” *Brazilian Journal of Chemical Engineering* Vol 26, pp 171-180, 2009
36. C. Shanawaskhan, P. Kalaichelvi, **M.Perumalsamy**, A. Arunagiri “Computational fluid dynamic analysis of two phase jet mixer” *Journal of the university of chemical technology and metallurgy*, vol 44, pp 262-266, 2009
37. **M.Perumalsamy**, **T.K.** Radhakrishnan , K. Kalaichelvi “CFD Modeling of flow pattern and phase hold up of three phase fluidized bed contactor” *Chemical Product and process modeling vol 4*, 1, 36, 2009
38. **M.Perumalsamy**, T.Murugesan “Partition Behavior of Bovine Serum Albumin in PEG2000-Sodium Citrate-Water Based Aqueous Two-Phase System” *Separation Science and Technology* Vol 42, pp 2049-2065, 2007
39. K Sendilkumar, P Kalaichelvi, **M Perumalsamy**, A Arunagiri, T Raja Computational fluid dynamic analysis of mixing characteristics inside a jet mixer for Newtonian and non Newtonian fluids, **World Congress on Engineering and Computer Science**, 120-128, 2007
40. **M.Perumalsamy**, A.Bathmalakshmi and T.Murugesan “Experiment and Correlation of Liquid-Liquid Equilibria of an Aqueous Salt Polymer System Containing PEG6000 + Sodium Citrate” *Journal Of Chemical & Engineering Data* Vol 52, pp 1186-1188, 2007

41. P. Kalaichelvi, **M.Perumalsamy**, A. Arunagiri, K. Sofiya “Synergistic extraction of acetic acid from its aqueous solution”, *Journal of the University of Chemical Technology and Metallurgy*, Vol 42, pp 423-426, 2007
42. **M.Perumalsamy**, T.Murugesan., “Prediction of liquid–liquid equilibria for PEG2000–sodium citrate based aqueous two-phase systems”, *Fluid phase equilibria* Vol 244, pp 52-61, 2006
43. T.Murugesan., **M.Perumalsamy**, “Liquid-Liquid Equilibria of Polyethylene glycol 2000 + Sodium citrate +Water at (25°, 30°, 35°, 40° and 45) °C”, *Journal Of Chemical & Engineering Data* Vol 50, pp 1392-1395, 2005.

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44. T.Murugesan., **M.Perumalsamy**, “Densities and Viscosities of Polyethylene Glycol 2000 + Salt + Water Systems from (298.15-318.15) K ”, *Journal Of Chemical & Engineering Data* Vol 50, pp 1290-1293, **2005**.

(B) Conferences/Workshops/Symposia Proceedings

PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES :

1. Mira Chares S. **M.Perumalsamy** Identification of efficient bioprocessing of banana fibers for sustainable fibers and textiles International Conference on Green Chemistry and Engineering towards Sustainable Development – An Industrial Perspective 2021 at NIT Surat, during 16-18th June **2021**
2. Mira Chares S. **M.Perumalsamy** Production of Hemicellulose Degrading Enzymes by Solid State Fermentation for Degumming of Banana Fiber: an Ecofriendly Approach at Scientific E-poster presentation competition Organized by (**BIO-EPITOME 2021**) SBE-UIET on 1st and 2nd February **2021**, **Awarded Best poster presentation**
3. Mira Chares S. **M.Perumalsamy** Investigation on Green and chemical degumming of *Musa balbisiana* Pseudostem extracted fibers: A Comparative study” in International Conference on Advances in science and Technology (**ICAST**) Organized by **Institutions of Innovations.**, Tiruvanamalai during 2nd and 3rd April **2021**
4. Mira Chares S. **M.Perumalsamy** Green degumming of banana pseudostem fibers for application in textile industries” in a National conference on Sustainable Research in Energy and environment (SREE-2021) conducted by Dr. B. R. Ambedkar National institute of Technology, Jalandhar during January 15-16, **2021**
5. Mira Chares S. **M.Perumalsamy** Kinetic analysis of crude enzyme extract produced via solid state fermentation of banana pseudostem waste at CHEMBIOEN2021 conducted by NIT Jalandhar during 20-22 August, **2021**

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6. Mira Chares S. **M.Perumalsamy** Enzymatic degumming of natural fibers for textile applications” Organized by IICHE headquarters & IICHE Hyderabad regional centre (CHEMCON-2020) during the month of December 27-29, **2020**
7. Sudhanthiran MC, **M.Perumalsamy** A review on the Integration of microalgae and photo bioreactor for waste water treatment Organized by IICHE headquarters & IICHE Hyderabad regional centre (CHEMCON-2020) during the month of December 27-29, **2020**
8. **Ashwaniy, V.R.V. and M. Perumalsamy (2018)** Desalination by bio-cathode microbial desalination cell International conference on advances and challenges for sustainable ecosystems (ICASE), National Institute of Technology, Tiruchirappalli during 6-8 December,**2018**
9. Indulekha John, Prasanthi Yaragarla, **Perumalsamy Muthaiah**, Kalaichelvi Ponnusamy, Arunagiri Appusamy Statistical optimization of Acid Catalyzed steam Pretreatment of Citrus Peel waste for Bioethanol International Conference on Separation Technologies in Chemical, Biochemical, Petroleum and Environmental Engineering TECNOSCAPE2016, during **2016**
10. R.Govindarajan and **M.Perumalsamy** Synergistic Two-stage Extraction of therapeutic whey proteins using Aqueous biphasic system , Biopartitioning and Purification Conference 2015 at Vienna, Austria during 7-10 June 2015
11. M.Perumalsamy and T.Murugesan “Synergistic extraction of whey proteins using polyethylene glycol and salt based aqueous biphasic system” International Conference on Chemical and Biological Processes (ICCBP-2015) at Dubai during 21-25 November **2015**
12. R.Govindarajan and **M.Perumalsamy**, Extraction of value-added therapeutic proteins from cheese whey using environmentally benign biphasic system International conference on Emerging Trends in Biotechnology (ICETB **2014**), New Delhi
13. R.Govindarajan and **M.Perumalsamy**, “Extraction of Cheese Whey Proteins using PEG/Citrate Based Environmentally Benign Aqueous Two-Phase System” 17th International Conference on Biopartitioning and Purification (BPP 2013) held at Newport, RI, USA during 6-10th October, **2013**

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14. C. Chellamboli and **M. Perumalsamy**, “Optimization Of *Scenedesmus abundans* in batch culture system by using response surface methodology”, International conference on algal biorefinery: a potential source of food, feed, biochemicals, biofuels and biofertilizers (**ICAB 2013**), organized by IIT, Kharagpur
15. R.Govindarajan **M.Perumalsamy** Extraction of Cheese Whey Proteins using Environmentally Benign Aqueous Two-Phase System International Conference on Advances in Biotechnology and Bioinformatics (ICABB 2013) held at Pune during 25-27th November & **2013**
16. C.Chellamboli. and **M.Perumalsamy** “Optimization studies on marine and freshwater microalgae” presented at INDO-US International conference on Energy and Environment 2012 held at NIT Jalandhar , Punjab during 27-30th December **2012**
17. **M.Perumalsamy** and T.Murugesan “ Extraction of Cheese whey proteins (α -Lactalbumin and β -Lactoglobulin) from dairy effluents using environmentally benign aqueous biphasic system’ Presented at 2nd International Chemical and Environmental Engineering Conference (**ICEEC 2011**) held at Kuala Lumpur, Malaysia during 21-23 December **2011**
18. **M.Perumalsamy** and T.Murugesan "Extraction of bovine serum albumin using environmentally benign aqueous two phase system" presented at International Conference on Recent Advances in Chemical Engineering and Technology (**RACET 2011**) held at Cochin during 10-12 March, **2011**
19. **M.Perumalsamy**, P.Sreekanth Chowdary “Isolation of cheese whey proteins using aqueous two phase system” International Conference on Frontiers in Biological Sciences: **InCoFIBS-2010**” presented at National Institute of Technology Rourkela
20. **M.Perumalsamy** and T.Murugesan Optimization of bovine serum albumin partition coefficient in aqueous two-phase system using surface response method accepted for oral presentation in **ICCBPE 2009**, Malaysia
21. **M.Perumalsamy**, T.K.Radhakrishnan and K.Kalaichelvi “ Prediction of flow pattern and phase holdup of three phase fluidized bed contactor using cfd technique”

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- accepted for Oral presentation in World Congress on Engineering and Computer Science (**WCECS 2008**) San Francisco, USA
22. **M.Perumalsamy** and T.Murugesan “Environmentally benign Aqueous Two-Phase Systems for the separation and purification of proteins from bioresources” accepted for poster presentation in (**RSCE-SOMChE 2009**), Kuala Lumpur, **Malaysia**
23. K.Sentilkumar, P.Kalichelvi, **M.Perumalsamy**, A.Arunagiri and T.Raja “Computational Fluid Dynamic Anaysis Of Mixing Characteristics Inside A Jet Mixer For Newtonian And Non Newtonian Fluids” accepted for Oral presentation in (**WCECS 2007**) San Francisco, USA.

PAPERS PUBLISHED IN NATIONAL CONFERENCES :

1. V.R.V.Ashwaniy and **M.Perumalsamy** “Simultaneous Desalination and waste water treatment by Algal microbial Desalination system” Presented in CHEMCON 2016 at A.C.Tech, Anna University, Chennai during 27-30 December , **2016**
2. K.S.Parthiban and **M.Perumalsamy** “Conversion of plastic waste into valuable fuel products by hydrothermal liquefaction” National Conference on Environmental Issues and Mitigations for Sustainable Development (EIMSD 2016) at Annamalai University, Chidambaram during November **2016**
3. C. Chellamboli and **M. Perumalsamy**, “Optimizing the growth and lipid of chlorella pyrenoidosa using response surface methodology for biodiesel production, National Conference On progress in algology on the Indian context, Trichy 19-21 September, **2014**
4. R.Govindarajan **M.Perumalsamy**, Isolation of Cheese Whey Proteins using PEG/Salt based Aqueous Two-Phase System Chemical Engineering Congress, CHEMCON-2011, Bangalore during 27-29th December **2011**

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5. **M Perumalsamy** and Sreekanth Chowdary P “Biotechnological utilization of cheese whey and its derivatives” presented at National conference on Biotechnology and the Environment (**NCBE 2010**) at National Institute of Technology- Durgapur
6. Senthilkumar, S., **M.Perumalsamy** and H. J. Prabhu (2010) Decolourization of Synthetic Dyes Using White Rot Fungus, *Phanerochaete Chrysosporium*. **CHEMCON 2010**, Annamalai University, Chidambaram December, **2010**.
7. Senthilkumar, S., **M. Perumalsamy** and H. J. Prabhu ‘Bio degradation of textile dyes in fluidized bed bioreactor’. **Chemference 09**, I.I.T Madras, August, **2009**
8. **M.Perumalsamy**, T.K.Radhakrishnan, P. Kalachelvi “CFD Modeling of Flow pattern and Phase holdup of Three Phase Fluidized Bed Reactor” accepted for oral presentation in **CHEMCON 2008** held at Punjab University, Chandigarh
9. P.kalaichelvi, Majid Ma, K.Deenadhayalan, A.Arunagiri and **M.Perumalsamy** “Computational Fluid dynamic analysis of heat and fluid flow inside a plate heat exchanger” Presented at National Conference on Emerging Trends In Chemical Engineering at NIT, Surat during 7th to 6th May **2008**
10. P.Kalaichelvi, K.Deenadhayalan, **M.Perumalsamy**, A.Arunagiri “Thermal Analysis of a plate heat Exchanger water(Hot fluid)-Kerosine(Cold fluid)” accepted for oral presentation in **CHEMCON 2008** held at Punjab University, Chandigarh
11. **M.Perumalsamy** and T.Murugesan "Application of Aqueous two-phase systems for the recovery of biological products"**CHEMCON 2007**, Calcutta Regional Centre, Jadavpur University, Calcutta during December' 2007.
12. **M.Perumalsamy**, PR Ganesan and T.K.Radha Krishnan " CFD Simulation of Internal Airlift Reactors" **CHEMCON 2007**, Calcutta Regional Centre, Jadavpur University, Calcutta during December' 2007.
13. P.Kalaichelvi, **M.Perumalsamy**, A.Arunagiri, T.Raja, K.Senthilkumar, C.Shanawaskhan “Modeling and Simulation of Jet Mixers for Non-Newtonian Fluid

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- Using Computational Fluid Dynamics” **CHEMCON 2007**, Calcutta Regional Centre, Jadavpur University, Calcutta during December' 2007.
14. **M.Perumalsamy** “Partition behaviour of BSA in PEG2000-sodium citrate based aqueous two-phase system” **CHEMCON 2006** held at Ankleshwar regional Centre, Gujarat during December, 27-30, 2006.
15. R.Govindarajan **M.Perumalsamy** “Synergistic Two-stage Extraction of therapeutic whey proteins using Aqueous biphasic system” Biopartitioning and Purification Conference 2015 held at Vienna, Austria during June 7-10, **2015**
16. B.Vanavil, **M.Perumalsamy** and A.Seshagiri Rao “Enhanced Biosurfactant Production from Air isolate for environmental applications” National Conference on CEPEA 2012 held at Chennai during March 29-30, **2012**
17. B.Vanavil, **M.Perumalsamy** and A.Seshagiri Rao “ Investigation of the effects of bioprocess design parameters on Rhamnolipid production” CHEMREFERENCE 2012 held at IIT Bombay during December 10-11, **2012**
18. C. Chellamboli and **M. Perumalsamy** “Optimization studies on marine and fresh water microalgae” CHEMCON-2012 held at NIT, Jalandhar. Punjab ,**2012**

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Mira Chares S, M.Perumalsamy	Biodegradable Composite for Smart Packaging Applications	Elsevier	2022	
V.R.V.Ashwaniy M.Perumalsamy	Microbial Desalination Cell an Integrated Technology for Desalination, Wastewater Treatment and Renewable Energy Generation	Materials Research Forum LLC	2019	ISSN 2471-8890

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