

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	National Institute of Technology, Tiruchirappalli	2009		Energy Engineering
M.Tech	Regional Engineering College, Tiruchirappalli	2000-2002	Energy Engineering	9.2 (C.G.P.A) First class with Distinction
B.Tech	Dr.M.G.R.Engineering College, Maduravoyal	1996-2000	Chemical Engineering	80.2 % First class with Distinction
Higher Secondary	Anna Adarsh Matriculation Higher Secondary School, Annanagar	1994-1996	Basic Sciences	94.5% First class with Distinction
S.S.L.C	Kerala Vidyalayam Higher Secondary School, Chennai	-1994	Basic Sciences	84% First class with Distinction

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member, BoG	Institution	December 2015	Till date
Associate dean (SW)	Opal Hostel	1 st July 2013	August 2015
President	Ladies Club	November 2012	November 2014
Teqip Nodal Officer (Equity)	TEQIP	February 2013	Till date
Warden for Opal ladies hostel	Opal Hostel	January 2009	30 th November 2010
Associate warden for Opal ladies hostel	Opal Hostel	2006	December 2008

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Doctoral committee member	Anna University	2009	Till now
Reviewer	Journals	2009	Till now

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2009	Young scientist award	DST
2011	Biography included in the 28 th edition of Who's Who in the world	Marquis Who's who publications
2014	Most Inspiring Women Engineer	Engineering Watch ,New Delhi

12. Fellowships: Nil

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

- a. Developed flexible curriculum for Chemical Engineering Thermodynamics
- b. Developed flexible curriculum for Industrial safety and Risk Management

(ii) Courses taught at Postgraduate and Undergraduate levels

SL.NO	SUBJECT	DEGREE
2006- 2007		
1.	Energy & Environmental Engineering	B.Tech
2.	Fuels & Combustion Technology	M.Tech
3.	Solar energy engineering	M.Tech
2007-2008		
1.	Energy & Environmental Engineering	B.Tech
2.	Fuels & Combustion Technology	M.Tech
3.	Solar energy engineering	M.Tech
2008-2009		
1.	Energy & Environmental Engineering	B.Tech
2.	Fuels & Combustion Technology	M.Tech
3.	Solar energy engineering	M.Tech
2009-2010		
1.	Safety in chemical industries	B.Tech
2.	Fuels & Combustion Technology	M.Tech
3.	Solar energy engineering	M.Tech
2010-2011		
1.	Safety in chemical industries	B.Tech
2.	Fuels & Combustion Technology	M.Tech
3.	Solar energy engineering	M.Tech
2011-2012		
1.	Safety in chemical industries	B.Tech

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2.	Fuels & Combustion Technology	M.Tech
3.	Solar energy engineering	M.Tech
2012-2013		
1.	Safety in chemical industries	B.Tech
2.	Fuels & Combustion Technology	M.Tech
3.	Solar energy engineering	M.Tech
2013-2014		
1.	Safety in chemical industries	B.Tech
2.	Chemical Engineering Thermodynamics	B.Tech
2014-15		
1.	Safety in chemical industries	B.Tech
2.	Chemical Engineering Thermodynamics	B.Tech
2015-16		
1.	Industrial safety and Risk Management	M.Tech
2.	Chemical Engineering Thermodynamics	B.Tech
2016-17		
1.	Industrial safety and Risk Management	M.Tech
2.	Chemical Engineering Thermodynamics	B.Tech
LABORATORIES HANDLED		
1.	Mass Transfer Laboratory	B.Tech
2.	Mechanical Operations Laboratory	B.Tech
3.	Fluid Mechanics Laboratory	B.Tech
4.	Chemical Reaction Engineering Laboratory	B.Tech
5.	Environmental Engineering Laboratory	M.Tech
6.	Technical Analysis Laboratory	B.Tech
7.	Thermodynamics Laboratory	B.Tech

(iii) Projects guided at Postgraduate level

Sl. No	Name of the Thesis	Year
1.	Analysis of circulating fluidized bed gasifier	01/2007
2.	Cold flow analysis of circulating fluidized bed gasifier	05/2007
3.	Analysis of biomass for thermal gasification	01/2007
4.	Fluidisation studies of biomass-sand mixture	05/2007
5.	Performance study of forced circulation solar water heating system fitted with helical twisted tape	01/2008
6.	CFD analysis for forced circulation solar water heating system with twisted tape	05/2008
7.	An experimental study on biomass gasification in fluidized bed	01/2008
8.	CFD simulation of biomass gasification in fluidized bed	05/2008
9.	Performance evaluation of a biomass gasifier	01/2008
10.	Mathematical modeling of a biomass gasifier	05/2008
11.	Heat transfer enhancement studies in an electronic liquid cooling system using fins	01/2009
12.	Defluoridation of drinking water and estimation of fluoride	05/2009
13.	A new solar energy conversion scheme implemented using grid-	01/2009

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	tied three phase inverter	
14.	Modeling And Control Of A Six-Switch Single-Phase Inverter	05/2009
15.	Load estimation and photovoltaic application for buildings	01/2010
16.	Performance evaluation of combined solar still flat plate collector system	05/2010
17.	Performance improvement of photovoltaic water pumping system by using MPPT	01/2010
18.	Performance study of an inclined solar water distillation system	05/2010
19.	Energy auditing of a thermal power plant –Part I	01/2010
20.	Energy auditing of a thermal power plant –Part II	05/2010
21.	A study on the underwater performance of solar photovoltaic panel	01/2011
22.	Mathematical modeling of a doubly fed induction generator for wind turbine application	05/2011
23.	Optimisation of the thermal design of a shell and tube heat exchanger	01/2011
24.	Solar assisted photochemical and photocatalytic degradation of distillery effluent	05/2011
25.	Grape drying using hybrid photovoltaic –thermal green house dryer-an experimental study	01/2011
26.	Control of PV charger system with SEPIC converter	05/2011
27.	Experimental studies on an inclined solar water distillation system	01/2011
28.	Experimental studies on biomass pyolysis using microwave radiation	01/2012
29.	Experimental studies on removal of heavy metals using activated carbon	05/2012
30.	Experimental studies on the performance of low cost biomass based adsorbents for removal of dyes	01/2012
31.	Performance study of a passive solar dryer	05/2012
32.	Kinetic analysis of biomass and correlation of cellulose, hemicelluloses and lignin composition by thermogravimetric analysis, wet and experimental furnace methods	01/2013
33.	Steam gasification of biomass char for hydrogen production	05/2013
34.	Studies on continuous algal raceway pond for solar energy capture: Aspects of cell division on activity	01/2013
35.	Studies on continuous algal raceway pond for solar energy capture: Aspects of cell division on activity	05/2013
36.	Studies on methane production from coal by anaerobic digestion and comparison with conventional system	01/2013
37.	Studies on methane production by liquid phase oxidation of coal through anaerobic digestion	05/2013
38.	Experimental studies on performance improvement of silicon solar cells	01/2014
39.	Experimental studies on solar thermal energy storage by direct heating	05/2014
40.	Analysis and comparison of models for biomass pyrolysis	01/2014
41.	Copyrolysis of biomass and plastic waste for the production of	05/2014

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	useful gases	
42.	Experimental Studies on Biogas Production from Organic Wastes Using Micro Organisms Isolated From Coal – Cow Dung Slurry	01/2014
43.	Microwave degradation of distillery effluent	05/2014
44.	Degradation kinetics of coal dust and sugar dust for secure handling and storage	1/2015
45.	Hydrogen production through pyrolysis and steam gasification of biomass blends	5/2015
46.	Pyrolysis of biomass-plastic mixture for optimum char production	1/2016

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Combined pyrolysis and steam gasification to establish multi fuel production with maximized hydrogen yield	DST	2009	2013	Completed
Monitoring of sea bed and sea water quality	MoEF	2012	2014	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
P.Prakash	Experimental studies on hydrogen production through combined pyrolysis and steam gasification	Supervisor	2014
S.Sivasankari	Empirical approach to energy prediction studies and solar irradiance for photovoltaic systems	Co Supervisor	2015

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

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Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
18 th to 22 nd September 2006	Short term training course under continuing education programme on “CFD of convective heat and mass transfer”	National	Participant	Indian Institute of Technology, Madras	Indian Institute of Technology, Madras
20 th to 23 rd November 2006.	Workshop on “Fluidization Technology for Coal gasification and coal combustion”	National	Participant	Coal research, BHEL, Trichy	Coal research, BHEL, Trichy
25 th November 2006	workshop on “Instrumentation for Thermal Analysis”	National	Participant	CEESAT, NIT, Trichy	CEESAT, NIT, Trichy
9 th December 2006	Workshop on “Safety and stress management”	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
9 th December 2006	Workshop on “Environment & Hygiene”	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
December 11-15, 2006	workshop and training programme on “Computational Fluid Dynamics”	National	Participant	Centre for Development of Advanced Computing, C-DAC, Pune	Centre for Development of Advanced Computing, C-DAC, Pune
4-6 February, 2007.	International conference on Nanomaterials and its applications,	International	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
5-9 February, 2007	Short term training programme on	National	Participant	National Institute of Technology,	National Institute of Technology,

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	Recent advances in environment, safety and energy management			Tiruchirappalli	Tiruchirappalli
19-23 February, 2007	Short term training programme on Recent advancements in Environmental Engineering	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
17-18, September, 2007	workshop on Computational Fluid Dynamics	National	Participant	NIT, Trichy in joint activity with NIT, Warangal	National Institute of Technology, Tiruchirappalli
12 -13 th October 2007	workshop on Recent Trends in Energy Management	National	Participant	Institution of Engineers, Tiruchirappalli local centre	BHEL, Trichy
3 rd to 5 th November 2007	Training programme on “Break thru: Empower Yourself”	National	Participant	Chennai	Chennai
February, 21, 2008	Workshop on Non Linear Control Systems	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
February, 28, 2008	workshop on Nanomaterials characterization and their process applications	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
3-13, March, 2008	short term course on Advanced Alternative Energy Technologies with Special Emphasis to Fuel Cells	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
17 th to 18 th March 2008	Indo-UK workshop on “Low carbon technologies for decentralized	Inter national	Participant	Institute of Technology, Madras	Indian Institute of Technology, Madras

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	power production”				
16-28 June 2008	summer school on Process identification and control	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
October, 28, 2008	workshop on Advanced Chemical Process Design	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
5-10 th January 2009	Quality improvement programme on Instructional design and delivery system	National	Participant	National Institute of Technical Teachers Training and Research	National Institute of Technical Teachers Training and Research
March 6, 2009	International symposium on “Women empowerment and technical education (ISWETE-2009)	International	Participant	National Institute of Technical Teachers Training and Research	National Institute of Technical Teachers Training and Research
13 th to 17 th July 2009	AICTE-MHRD sponsored Faculty Development Programme on “Chemical Systems Modeling and Simulation”	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
7 th to 11 th June 2010	5 th summer school on “Petroleum refining and petrochemicals”	National	Participant	Petrotech society, IIPM, Delhi	Petrotech society, IIPM, Delhi
30 th November to 2 nd December, 2010	Summit on ‘NextGenFuels 2010”	National	Participant	Grow diesel climate care council, Delhi	Grow diesel climate care council, Delhi
17 th to 22 nd January 2011	Short term training programme on “Environmental Chemodynamics”	National	Participant	Indian Institute of Technology, Madras	Indian Institute of Technology, Madras
14 th June to	ISTE workshop on	National	Participant	Indian Institute of	Indian Institute of

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24 th June 2011	“Thermodynamics in Mechanical Engineering”			Technology, Bombay	Technology, Bombay
10 th to 12 th October 2011	training workshop on Installation and Maintenance of Real Time Solar Radiaion Monitoring Systems and Network in India	National	Participant	CWET-Chennai	CWET-Chennai
29 th November to 10 th December 2011	ISTE workshop on “Heat Transfer”	National	Participant	Indian Institute of Technology, Bombay	National Institute of Technology, Tiruchirappalli
09 th to 13 th January 2012	Training program on “The Science of Living”	National	Participant	Academy of Human Excellence, Vadodara	Academy of Human Excellence, Vadodara
12 th to 22 nd June 2012	ISTE workshop on “Computational Fluid Dynamics”	National	Participant	Indian Institute of Technology, Bombay	National Institute of Technology, Tiruchirappalli
12-13 th October 2012	International conference on safety	International	Participant	IIT, Gandhinagar	IIT, Gandhinagar
14-15 th October 2012	Workshop on “process safety management”	International	Participant	IIT, Gandhinagar	IIT, Gandhinagar
4 th February to 8 th February 2013	Training programme on “Creativity and Innovation in Research”	National	Participant	Engineering Staff College of India, Hyderabad	Engineering Staff College of India, Hyderabad
4 th March to 8 th March 2013.	Training programme on “Decision making for effective leadership”	National	Participant	Administrative Staff College of India, Hyderabad	Administrative Staff College of India, Hyderabad
4 th to 7 th February 2014	Training programme on “Research Methodology and IPR”	National	Participant	EQUATE, New delhi	EQUATE, New delhi
28 th to 29 th	Symposium on	National	Participant	Teaching	Teaching

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May 2014	“Teaching Learning in higher technical education”			Learning Centre, CCE, IIT Madras	Learning Centre, CCE, IIT Madras
19 th to 20 th June 2014	Training workshop on Functioning and Maintenance of Solar Radiation Resource Assessment Station	National	Participant	CWET-Chennai	CWET-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
Sustainable technologies for future	Local	December 13, 2008	Convenor	NITT
Chemical Process Simulation using MATLAB	Local	9-13 th January 2012	Convenor	NITT
Occupational health & safety	Local	05-17 th December 2013	Co-Convenor	NITT
ISO 50001:2011	Local	10-14 th March 2014	Co-Convenor	NITT
Finishing school	Local	22 nd July – 6 th August 2013	Convenor	NITT
Finishing school	Local	10-17 th October 2014	Convenor	NITT
Technical writing for research scholars in Engineering and the Sciences	Local	25-26 th May 2013	Convenor	NITT
Energy and Environment	Local	27-28 th July 2013	Convenor	NITT
An insight into the solar and bio energy applications	Local	23 rd July 2016	Convenor	NITT
Conceptual mechanisms	Local	22-27 th	Co-Convenor	NITT

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of Transport Operations in Chemical and Biochemical processes		August 2016		
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18. Invited Talks delivered

Topic	Date	Inviting Organization
Emerging trends in Bio energy	17-28 th May, 2004	AICTE-ISTE, RECT
Renewable Energy option for Domestic applications	22 nd November- 3 rd December 2004	AICTE-ISTE,RECT
Clean energy technology- Biomass gasification	9 th December 2006	NIT, Trichy
Hydrogen energy- Fuel for the future	5 th -9 th February, 2007	NIT, Trichy
Instrumentation for thermal analysis	9 th -14 th , February 2007	QIP ,NITT
Simulation studies of a fluidized bed gasifier	13 th - 17 th July 2009	AICTE-MHRD, NITT
Fluidized bed gasification	29-30 th December 2009	MNRE, Oxford Engineering College, Trichy
Solar energy –Prospects and future	17 th August, 2010	Saranathan College of Engineering, Trichy
Energy generation and conservation	9 th September, 2010	Kings College of Engineering,Thanjavur.
Biofuels for future	25 th September, 2010	Roever Engineering college, Trichy
Biofuel from algae	29- 30 th April 2011	Star Lion College of Engineering & Technology, Thanjavur.
Solar Energy Applications	1 -3 rd February 2012	Meenakshi Sundararajan Engineering College, Chennai.
Green Energy Technologies	29 th February 2012	Bharathidasan University, Trichy
Biomass gasification	24 th August 2012	NPR College of Engineering and Technology, Natham
Biofuels	23 rd May 2013	Pondichery Engineerig College
Energy Technologies for rural development	13-14 th June 2013	Roever Engineering college, Trichy
Experimental studies on biogas production, pyrolysis and gasification	1-5 th July 2013	NIT, Calicut
Experiences in the	18 th July 2013	Vivekanandha Institute of

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Production of Biogas from Waste		Engineering and Technology, Namakkal
Rural applications of bioenergy	22-23 rd October 2013	TEQIP, Anna University
Control of automobile pollution	21-22 nd October 2013	TEQIP, Anna University
Green Energy	6 th May 2014	Institution of Engineers (Trichy Local Chapter)
Data analysis for solar applications @ NITT	19-20 th June 2014	CWET, MNRE

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Solar Energy Society of India	1180/LM/2006
Life Member	in National Society of Fluid Mechanics & Fluid Power	2010
Life Member	Institution of Engineers	41281, 2011
Life Member	Indian Institute of Chemical Engineers	M143372-5, 2011
Life Member	The Society for Advancement of Electrochemical Science and Technology, Karaikudi	LA356, 2012

20. Academic Foreign Visits

Country	Duration of Visit	Programme
University of Saskatchewan, Canada	01/01/2008 to 30/01/2008	Undergone a training programme on Biomass gasification under TEQIP
World Academy of Research and Publication, Kualalumpur, Malaysia	21-23 rd December 2011.	To attend International Chemical and Environmental Engineering Conference
Dubai, UAE	22-24 November 2015	To attend 4 th International Conference on Chemical and Biological Processes, (ICCBP-2015)

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volum	Page	Year	Impact
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			e (No.)	number s		Factor of the Journal (Optional)
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba	Experimental studies on heat transfer and friction factor characteristics of forced circulation solar water heater system fitted with Left-Right twisted tapes	International Energy journal	9 (3)		2008	
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba, S.Suresh	Experimental investigation of heat transfer and friction factor characteristics of Thermosyphon solar water heater system fitted with spacer at the edge of Left-Right twisted tapes	Energy Conversion and Management	50	2638-2649	2009	1.944
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba	Experimental studies on heat transfer and friction factor characteristics of forced circulation solar water heater system with twisted tapes	Solar energy	83	1943-1952	2009	2.011
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba	Studies on heat transfer and friction factor characteristics of Thermosyphon solar water heater system with helical twisted tapes	Energy	34	1054-1064	2009	2.952
K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar	Air gasification characteristics of coir pith in a circulating fluidized bed gasifier	Energy for sustainable development	13	166-173	2009	1.625
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba	Experimental studies on heat transfer and friction factor	Applied Thermal Engineering	29			1.922

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	characteristics of Thermosyphon solar water heater system fitted with spacer at the trailing edge of twisted tapes			1224-1231	2009	
K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar	Reaction kinetics for coir pith pyrolysis in Thermogravimetric analyzer	Energy Sources Part A	32	1837 – 1850	2010	0.843
Sheeba, K.N., J.Sarat Chandra Babu and S.Jaisankar	Reaction kinetics for coir pith pyrolysis in Thermogravimetric analyzer	Energy Sources Part A	32	1837 – 1850	2010	0.843
Jaisankar, S., T.K.Radhakrishnan and K.N.Sheeba	Experimental studies on heat transfer and thermal performance characteristics of thermosyphon solar water heating system with helical and Left-Right twisted tapes	Energy Conversion and Management	52	2048-2055	2011	2.216
Jaisankar, S., J. Ananth, S. Thulasi, S.T. Jayasuthakar and K.N. Sheeba	A comprehensive review on solar water heaters	Renewable and Sustainable Energy Reviews	15	3045-3050	2011	6.018
Muralidharan, K., D.Vasudevan and K.N.Sheeba	Performance, emission and combustion characteristics of biodiesel fuelled variable compression ratio engine	Energy	36	5385-5393	2011	3.487
Sheeba, K.N., S.Jaisankar and P.Prakash	Performance study on an inclined solar water distillation system	International journal of chemical and environmental engineering	3 (1)	61-63	2012	
Sheeba, K.N., J.Sarat Chandra Babu and	Steam gasification characteristics of coir pith in a circulating	Energy Sources Part A	35 (2)	110-121	2013	0.358

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S.Jaisankar	fluidized bed gasifier					
Vineetha, M.N., M.Matheswaran and K.N.Sheeba	Photocatalytic colour and COD removal in the distillery effluent by solar radiation	Solar energy	91	368- 373	2013	3.541
Prakash, P. and K. N. Sheeba	Study on kinetic parameters of different biomass samples using Thermo-gravimetric analysis	Biomass and Bioenergy	58	58-66	2013	3.411
Prakash, P. and K. N. Sheeba	Determination of kinetic parameters of biomass samples using Thermogravimetric analysis	Environment al progress and sustainable energy	33	256- 266	2014	1.403
Prakash, P. and K. N. Sheeba	Hydrogen production from steam gasification of biomass: Influence of process parameters on hydrogen yield- A review	Renewable energy	66	570- 579	2014	3.476
Tapas, K.P., K.N.Sheeba, P.Augusta and S.Jaisankar	Experimental study on adsorption of malachite green in simulated and real effluent by bio-based adsorbents	International journal of green energy	12(11)	1189- 1195	2014	1.601
Sheeba, K.N., P.Prakash and S.Jaisankar	Performance evaluation of a flat plate collector coupled solar still System	Energy Sources Part A	37	291- 298	2015	0.455
Sheeba, K.N., R.Madhusudhana Rao and S.Jaisankar	A study on the underwater performance of solar photovoltaic panel	Energy Sources Part A	37	1505- 1512	2015	0.455
Gangadhar Maddukuri, K.N. Sheeba, P.S. Biruli and S. Jaisankar	Effect of co-firing coals of varying fuel characteristics	Energy Sources Part A	37	2047- 2055	2015	0.455
Prakash, P. and K. N. Sheeba	Combined slow pyrolysis and steam gasification of biomass for hydrogen generation- A review	International Journal of Energy Research	39	147- 164	2015	2.529
Prakash, P. and K.	Effect of combined	Korean		2236-	2015	1.408

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N. Sheeba	slow pyrolysis and steam gasification of sugarcane bagasse on hydrogen yield	journal of chemical engineering	32(11)	2246		
Reeshab,G., P.Prakash, G. Naveen Kumar, B. Navneet Kumar, N.Sheeba	Kinetic analysis of biomass and comparison of its chemical compositions by thermogravimetry, wet and experimental furnace methods	Waste and Biomass Valorization	6(6)	989-1002	2015	0.915

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba, S.Suresh	Experimental studies on heat transfer and friction factor characteristics of Thermosyphon solar water heater with kenics twisted tapes	International conference on Advances in Energy Research	168-174	Energy Research	IIT, Bombay	12-14 th December 2007
K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar	Experimental Studies of a Biomass Circulating Fluidized Bed Gasifier	International conference on Advances in Energy Research	96-100	Energy Research	IIT, Bombay	12-14 th December 2007
S.Jaisankar, T.K.Radhakrishnan, S.Suresh, K.N.Sheeba	Heat Transfer Enhancement in Thermosyphon Solar Water Heater System with Twisted Tapes by CFD Approach	International conference on Resource Utilization and Intelligent Systems		Energy Research	Kongu Engineering College, Erode	3-5 th January 2008
K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar	Development of a continuous powdery coir pith gasifier	International conference on Resource Utilization and Intelligent Systems	8-11	Energy Research	Kongu Engineering College, Erode	3-5 th January 2008

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K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar	Syngas characteristics of coir pith gasification in a circulating fluidized bed gasifier	International Congress of Environmental Research		Environmental Research	Goa	18-20 th December 2008
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba	Comparison of heat transfer and thermal performance characteristics of thermosyphon solar water heating system with helical and Left-Right twisted tapes	International Congress of Environmental Research		Environmental Research	Goa	18-20 th December 2008
K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar	Influence Of Equivalence Ratio On the Steam Gasification Of Coir Pith In A Circulating Fluidised Bed Gasifier	International conference Advances in Energy Research	11	Energy Research	IIT, Bombay	9-11 th December 2009
S.Jaisankar and K.N.Sheeba	Studies On Heat Transfer, Pressure Drop And Thermal Performance Characteristics Of Forced Circulation Solar Water Heating System With Helical And Left-Right Twisted Tapes	International conference Advances in Energy Research	27	Energy Research	IIT, Bombay	9-11 th December 2009
Srinivasa Rao Ganta, K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar, E.Hanuman, Kailash Krishna Prasad	Performance studies from the energy audit of Kothagudem Thermal Power plant	International conference on Advances in Renewable Energy	34-40	Renewable Energy	NIT, Bhopal	24-26 th June 2010
Sheeba, K.N., Jaisankar, S and Prakash, P	Simulation and validation of a circulating fluidized bed	International conference on Recent Advances in	118	Chemical Engineering and Technology	Kochi Regional Centre, Kerala	10-11 March 2011

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	biomass gasifier	Chemical Engineering and Technology		gy		
Vineetha, M.N., Gopala Krishnan, V., Sheeba, K.N., and Jaisankar,S	Optimization of thermal aspects of a shell and tube heat exchanger	International conference on Recent Advances in Chemical Engineering and Technology	53	Chemical Engineering and Technology	Kochi Regional Centre, Kerala	10-11 March 2011
K.N.Sheeba, S.Jaisankar and P.Prakash	Performance study on an inclined solar water distillation system	International Chemical and Environmental Engineering Conference		Chemical and Environmental Engineering	Kualalumpur, Malaysia	21-23 rd December 2011
P.Prakash and K.N.Sheeba	Activated carbon from sugarcane bagasse by slow pyrolysis	International conference on Advanced oxidation processes	92	Chemical Engineering	The society of environmental chemistry and allied sciences and MG university, Kottayam	5-8 th October, 2012
Arathi Bhaskaran, K.N.Sheeba	Determination of thermal degradation kinetics of coal dust and sugar dust using thermogravimetric analysis	International conference on energy efficient technologies for automobiles	103--105	Renewable Energy	Anna University, Trichy	20-21 st March 2015
Savin,C.P, Sheeba,K.N	Analysis and comparison of models for biomass pyrolysis	International conference on recent advances in mechanical engineering and interdisciplinary development		Mechanical engineering	Ponjesly college of Engineering, Nagercoil	2014

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K.N.Sheeba, J.Sarat Chandra Babu	Thermogravimetric analysis of biomass waste for Circulating fluidized bed gasification	National Conference on Simulation, Modeling and Optimization		Modeling and Optimization	Arunai Engineering college, Tiruvannamalai	30-31st March 2007
K.N.Sheeba, J.Sarat Chandra Babu	Cleaner Fuel Technology-Biomass gasification	National Conference on Simulation, Modeling and Optimization		Modeling and Optimization	Arunai Engineering college, Tiruvannamalai	30-31st March 2007
K.N.Sheeba, J.Sarat Chandra Babu, S.Jaisankar and A.Sacithra	Analysis of biomass for thermal gasification	National Conference on Recent trends in Mechanical Engineering		Mechanical Engineering	Saranathan College of Engineering, Trichy	10th February 2007
S.Jaisankar, T.K.Radhakrishnan, K.N.Sheeba, B.Maheswaran	Performance analysis of thermosyphon solar water heating system with twisted tape	National Conference on Recent trends in Mechanical Engineering		Mechanical Engineering	Saranathan College of Engineering, Trichy	10th February 2007
Sheeba, K.N., Jaisankar,S and Prakash, P	Annual session of IChE Cold Flow Analysis of a Continuous Powdery Biomass Gasifier	Chemical Engineering Congress		Chemical Engineering	Calcutta Regional Centre, Jadavpur University, Calcutta	27-30 th December 2007
Sudhakar babu, S., Sheeba, K.N., Suresh, S., Jaisankar,S and Sreenath,S.B.	Heat transfer enhancement studies in an electronic liquid cooling system	National Conference on Emerging trends and innovations in chemical engineering		Chemical Engineering	St.Peter's engineering college, Chennai	27-28 th March, 2009
R.Manikantan, K.N.Sheeba	Performance improvement of photovoltaic water pumping system using Maximum Power Point	National Conference on Clean and green environment by	145-153	Renewable energy	Oxford engineering college, Trichy	16-17 th July, 2010

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	Tracker	implementin g renewable energy technologies				
Madhusudhanarao, K.N.Sheeba	Load estimation and photovoltaic application for buildings	National Conference on Clean and green environment by implementin g renewable energy technologies	139- 143	Renewabl e energy	Oxford engineering college, Trichy	16-17th July, 2010
K.N.Sheeba	Control of PV charger system with SEPIC converter	National conference on Energy & Sustainability		Renewabl e energy	Roever Engineerin g College, Perambalur	8-9th April 2011
Yerrisamy Munipaka, K.N.Sheeba	Mathematical modelling and simulation of doubly fed induction generator (DFIG) using matlab/simulink	National conference on Energy & Sustainability		Renewabl e energy	Roever Engineerin g College, Perambalur	8-9th April 2011
M.Sriram Prasanth, A.Mercy vasan, K.N.Sheeba, M.Pramila	Experimental studies on biogas generation by co- digestion of Ipomea Carnea with cow dung – A new renewable energy source	National conference on Issues in power quality and renewable energy systems		Power systems and Renewabl e energy	Bharathida san Institute of Technolog y, Trichy	29-30 th April 2014
K.N.Sheeba, Lohit Kamble, Alok Tripathi	Effect of operating variables on removal of heavy metals using Activated carbon from sugarcane bagasse	International Conference on Chemical and Biological Processes, (ICCBP- 2015),	27	Chemical and Biologica l Processes	Dubai, UAE	22-24 November 2015

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of	Year of	ISSN/ISBN
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		Publishers	Publication	Number
K.N.Sheeba	Experimental studies on a Circulating fluidized bed biomass gasifier	Lambert Academic Publishing GmbH & Co, Germany	2011	978-3-8465-2080-2
K.N.Sheeba, P.Prakash,	Biomass- Potential Sustainable Source of Energy, Energy science and technology	Studium Press LLC, USA	2015	1-62699-068-9