

CURRICULUM VITAE



Mrs.M.Premalatha completed Phd in 2005, in the area of improvement of solar water heating system. She completed her certification program on ISO 9001:2015, IRCA Approved OHSAS Lead Auditor Conversion Training Program and NABL 17025:2005, all on Internal audit training. She is the Principal Investigator for “Carbon-di- oxide sequestration using solar/chemical methods (2008-2011 and 2012-2015) funded by DST. She has established a research lab with full-fledged facilities required for micro-algae cultivation, testing and analysis of solid and liquid samples. She is currently working on feasibility of phyco-remediation, for treating real industrial effluents, and feasibility (site) studies on Carbon-di- oxide sequestration from flue gas and organic spirulina. She is the principal investigator for PM fellowship (Industry-Institution tie up research project)

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2. Designation: Associate Professor/HOD
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6. Field(s) of Specialization: Energy Engineering

7. Employment Profile

| Job Title | Employer | From | To |
|--|-----------|-----------|---------------------|
| Trichy Distilleries & Chemicals Ltd., Trichy | 2.7.1992 | 30.7.1993 | Company Apprentice |
| Regional Engineering College, Trichy | 5.11.1993 | 28.1.1996 | Research Assistant |
| Regional Engineering College, Trichy | 29.1.1996 | 1.8.2005 | Lecturer |
| National Institute of Technology, Trichy | 2.8.2005 | 1.8.2008 | Assistant Professor |
| National Institute of Technology, Trichy | 2.8.2008 | Till date | Associate Professor |

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

| Examination | Board / University | Year | Division/ Grade | Subjects |
|-------------|--------------------------------------|------|----------------------|----------------------------|
| Ph.D | Regional Engineering College, Trichy | 2005 | Commended | Solar water heating system |
| M.Tech | Bharathidasan University, Trichy | 1994 | Energy Engineering | First Class |
| B.Tech. | Bharathidasan University, Trichy | 1991 | Chemical Engineering | First Class |

9. Academic/Administrative Responsibilities within the University

| Position | Faculty/Department/Centre/Institution | From | To |
|---------------------------|---------------------------------------|------------|-----------|
| Head of the Department | Department of Energy and Environment | 27.01.2015 | Till Date |
| Quality Manager | Calibration Lab | | |
| Management Representative | ISO testing lab | | |

10. Academic/Administrative Responsibilities outside the University

| Position | Institution |
|--|--|
| Member- Board of Studies | Gandhigram Rural University Dindigul |
| Member- Board of Studies | Periyar Maniammai College of Technology for Women (PMCTW) Thanjavur. |
| Doctoral Committee member for 4 candidates | Anna University, Trichy |
| Doctoral Committee member for 1 candidate | Vellore Institute of Technology, Vellore |
| Doctoral Committee member for 1 candidate | Gandhigram Rural University, Dindigul |
| External Expert | Quality assurance cell of distance education centre, Gandhigram Rural University, Dindigul |
| External Examiner | Anna University |

11. Awards, Associateships etc.

| Year of Award | Name of the Award | Awarding Organization |
|---------------|--|-----------------------|
| 2014 | Excellence (The Paper was selected as one of the best entries in the college category) | Wipro (Earthian-2014) |
| 2014 | Honor from 'The Hindu' | 'The Hindu' |

| | | |
|----------------|---|--|
| 2015 | Bharat Excellence Award for outstanding achievements and contributions at a seminar on "Economic growth and national Unity" | Global Brotherhood forum at New Delhi |
| 2015 | Indira Gandhi Award | Global Brotherhood forum at New Delhi |
| 8th March 2016 | International Women's Day Award | "Nehru Memorial College and the Ponsiva Research Innovation Trust" |

12. Fellowships

| Year of Award | Name of the Fellowship | Awarding Organization | From (Month/Year) | To (Month/Year) |
|--|---|-----------------------|-------------------|-----------------|
| Principal Investigator(Industry-Institute interaction) | Prime Minister Fellowship for Doctoral Research | SERB | 2013 | Till now |

13. Details of Academic Work

(i) Curriculum Development – M.Tech Energy Engineering

(ii) Courses taught at Postgraduate and Undergraduate levels

Solar Energy Utilization
 Optimum Utilization of Heat and Power
 Energy Efficient Buildings
 Energy Audit and Management
 Environmental Engineering & Pollution Control
 Process Control and Instrumentation

(iii) Projects guided at Postgraduate level:35

(iv) Other contribution(s)

14. Details of Major R&D Projects

| Title of Project | Funding Agency (Rs in Lakhs) | Duration | | Status |
|---|------------------------------|----------|------|--------------------|
| | | From | To | Ongoing/ Completed |
| "Creating infrastructure for Environmental Engineering Laboratory | MHRD (6) | 2000 | 2002 | Completed |
| "Establishment of Solar Energy Laboratory" | MHRD(10) | 2002 | 2004 | Completed |
| R&D project on " Solar Heat Pipe for Air and Wind heater" | MHRD(5) | 2002 | 2005 | Completed |
| "Development, Design and Demonstration of a Self Circulating bio Gas Generator for Bone Wash and Sinews", | MHRD(8) | 2003 | 2006 | Completed |
| "Experimental and simulation studies on CO2 sequestration using Solar, Chemical methods" | DST(40) | 2008 | 2011 | Completed |

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|---|---------------------------------|------|------|-----------|
| "PV Application for sewing machine, tube lights and fan – a case study | CEESAT & Auburn University, USA | 2008 | 2009 | Completed |
| Experimentation on biofixation of CO ₂ using an efficient Photo Bio Reactor & Simulation and development of scale up methods | DST (82) | 2008 | 2011 | Completed |
| Microalgae CO ₂ sequestration from Industrial Flue gas – Photobioreactor design and industrial scale study | BHEL, Trichy(20) | 2014 | 2017 | Ongoing |

15. Number of PhDs guided

| Name of the PhD Scholar | Title of PhD Thesis | Role(Supervisor/ Co-Supervisor) | Year of Award |
|-------------------------|--|---------------------------------|---------------|
| S. Shanmugha Priya | Studies on Photolysis of Phenol | Supervisor | April 2009 |
| Sudhakar K | Microalgae feasibility study for CO ₂ capture | Supervisor | December 2013 |
| K.K.Vasumathi | CO ₂ sequestration using microalgae | Supervisor | June 2014 |
| R. Nalini | Auto gasification of wooden sticks | Co-Supervisor | April 2008 |

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

| Date (s) | Title of Activity | Level of Event (International/ National/ Local) | Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other) | Event Organized by | Venue |
|------------------------------|--|---|--|--|--------------------------|
| 14-15 th Oct.2011 | Energy efficiency and Environmental Impact | National Workshop | Participant | Manipal University | Manipal |
| 20-21 st Mar.2009 | Green Management in a warning world: Challenges & Opportunities | International Conference | Paper presenter | Association of British Council, Cochin | Kerala |
| 17-18 th Oct.2011 | Use of Solar Energy for CO ₂ capture,algae technology and hydrogen production and subsequent use of algal biomass for commercial purpose. | International Workshop | Paper presenter | IIT, Khargpur | Hyatt residency, Kolkata |

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|---------------------------------|--|--------------------------|------------------------------------|---|--|
| 19-20 th Nov.2011 | Design of Solar Heat Sheet for Air Heater | International Conference | Paper presenter (Best Paper Award) | Methods and Models in Science and Technology (ICM2ST-11) | |
| 20-21 st Jun.07 | Major Aspect of Energy Research in India & Germany | Indo-German Workshop | Poster presentation | IGWS - 2007 | IIT Madras |
| 8th July, 2011 | One day pre-stake holders meeting | Indo-US | Project presentation | Indo-US Joint Clean Energy Research and Development Center (JCERDC) | India Habitat Centre, New Delhi |
| 22nd October, 2010 | One day pre-stake holders meeting | Indo-US | Project presentation | Indo-US Joint Clean Energy Research and Development Center (JCERDC) | India Habitat Centre, New Delhi |
| March 26th, 2009 | Energy security for rural development (ESRD 2009) | National conference | Paper presentation | Rural energy centre, Gandhigram Rural University, Dindigul | Rural energy centre, Gandhigram Rural University, Dindigul |
| 17-18th March 2008 | Low carbon Technologies for decentralized power production | Indo-Uk workshop | Poster presentation | Indian Institute of Technology, Madras | Indian Institute of Technology, Madras |
| 13-14th March 2008 | Indian Energy Technology Conclave | Workshop | Indian member | India Energy Forum; IRADe, & World Energy Council | India Habitat Centre, Lodhi Road, New Delhi |
| 27th - 29th February 2008 | Material Science and Nanotechnology | International Conference | Paper presentation | Theresa University | Kodaikanal |
| 12th - 14th December 2007 | Advances in Energy Research, ICAER2007 | International Conference | Paper presentation | IIT, Mumbai | IIT, Mumbai |
| 26th October, 2007 | "Bibliometric research for college teachers" | Workshop | | Department of Chemistry, NIT Trichy | NIT Trichy |

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|------------------------|---|--------------------------|--------------------|---|------------------------------|
| 4th – 6th January 2007 | Cleaner Technologies and Environmental Management | International Conference | Paper presentation | Pondicherry Engineering College, Puducherry | Puducherry |
| 27-28th September 2006 | Renewable Energy | Workshop | | RENET | IIT Madras |
| 13-14th October 2004 | Standards and Labeling for consumer appliances | International Workshop | attended | Union Ministry of power | Hotel Le Meridian, Bangalore |
| 15-17th March, 2003 | “Sustainable Development and Natural resources” | International conference | Paper presented | Holy cross college | Trichy |

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

| Title of Activity | Level of Event (International/ National/ Local) | Date (s) | Role | Venue |
|--|---|---|----------|--------------|
| Two days Workshop on Thermal and Elemental Analysis of Solids and Spectroscopic Analysis of Solid and Liquid Samples | National | 21&22 nd Dec.2015 | Convener | CEESAT, NITT |
| A one day demonstration of Calibration Instruments for Industries | National | 25 th Feb.2016 | Convener | CEESAT, NITT |
| Short term course on “Waste Management” | National | May 9 th to 14 th 2016 | Convener | CEESAT, NITT |
| TEQIP Sponsored One week Workshop on Thermal and Elemental Analysis of Solids | National | 1 st - 5 th august 2016 | Convener | CEESAT, NITT |
| one day workshop on spectroscopic analysis of solid and liquid samples | National | 10th October 2014 | Convener | CEESAT, NITT |
| one day workshop on Thermal & Elemental analysis of solid samples | National | 9th October 2014 | Convener | CEESAT, NITT |
| one day workshop on ISO documentation, record making and control | National | August 2014 | Convener | CEESAT, NITT |
| one day workshop on Energy Conservation in Process Industries organized | National | 30th December 2013 | Convener | CEESAT, NITT |
| one day workshop on Spectroscopic analysis of solid and liquid samples | National | 05th September 2013 | Convener | CEESAT, NITT |
| two day workshop on Thermal & elemental analysis of solid samples | National | 29th & 30th August 2013 | Convener | CEESAT, NITT |

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|---|---------------------|-------------------------------|----------|--------------|
| one day workshop on Necessity of calibration for Industries | National | 18th July 2013 | Convener | CEESAT, NITT |
| Energy Day | National | 2013 | Convener | CEESAT, NITT |
| Energy day | National | 20th April, 2012 | Convener | CEESAT, NITT |
| One day seminar on “Energy and Environment” | National | 5th June 2010 | Convener | CEESAT, NITT |
| One day seminar on “Energy Day 09” | National | 24th April, 2009 | Convener | CEESAT, NITT |
| Workshop on “Rural development: Role of Renewable Energy Services”-TEQIP | National | 9th June, 2008 | Convener | CEESAT, NITT |
| National Conference on “Energy Efficiency : The Environmental Solution (EEE 07) | National | 27-28th December, 2007 | Convener | CEESAT, NITT |
| One day Training program on “Instrumentation methods of thermal analysis and data interpretation”-TEQIP | National | 25th November, 2006 | Convener | CEESAT, NITT |
| Basic Training program on “CFD-CFX 5.7.1” | National | 1-5th March 2005 | Convener | CEESAT, NITT |
| One day workshop on “Instrumentation of Thermal Analysis” under the sponsorship of M/s. Perkin Elmer India Pvt Ltd, Chennai | National | 30th April 2005 | Convener | CEESAT, NITT |
| Two day workshop cum discussion on “Small hydro power projects” under the sponsorship of Ministry of Non conventional Energy Sources (MNES), New Delhi, Jointly organized with Alternate Hydro Energy Centre, IIT Roorkee | National | 22-23rd April 2005 | Convener | CEESAT, NITT |
| One day workshop on “Solar Home Appliances” | National | 5th March 2005 | Convener | CEESAT, NITT |
| National Conference on Environment Awareness and Pollution Impacts Sponsored by AICTE, New Delhi | National Conference | 26th November 2004 | Convener | CEESAT, NITT |
| Short term training program on Emerging Energy Technologies sponsored by AICTE- ISTE, New Delhi | National | 17-28th May 2004 | Convener | CEESAT, NITT |
| International Workshop on “Sustainable Customerization for Sustainable Energy” jointly conducted by Intermediate Technology Consultants (ITC) and CEESAT | International | 3-5th December 1998 | Convener | CEESAT, NITT |
| Non conventional Energy Systems: Theory and Practice, sponsored by state project Implementation unit, Directorate of technical Education, Chennai. | National | 21st July to 1st August, 1997 | Convener | CEESAT, NITT |

18. Invited Talks delivered

| PLACE | PROGRAM | TITLE OF THE TALK | ORGANISED BY | DATE |
|---|--|---|--|---|
| Mahendra Engineering College, Namakkal | national conference | "Climate Changes on Energy Sector NCCC'16" | Mahendra Engineering College, Namakkal | 07.04.2016 |
| Kauri College, Trichy | | | | 2015 |
| Bharathidhasan University, Trichy | International Conference | "MICROALGAL CYANOBACTERIAL BIOTECHNOLOGY (MACB-2016)" | Bharathidhasan University, Trichy | 31.08.2016 |
| Periyar Maniyammai University, Tanjore | | | | 2015 |
| Vivekanantha Engineering College, Thiruchengode | | | | 2015 |
| NIT, Trichy | Faculty Development Programme (FDP) on Entrepreneurship development | Smart use of energy audits | Centre for Entrepreneurship Development and Incubation | 15th May 2014 |
| NIT, Trichy | One day workshop on "Hybrid Waste Water Treatment Technologies" | Waste water treatment for Energy generation through micro algae | Department of Chemical Engineering | 12 th April 2014 |
| Calicut | FDP on Advances in Energy Hybrid Systems | Hybrid Energy systems | NIT Calicut | 26 th June-2 nd July 2011 |
| Thanjavur | International conference on Emerging Green Technologies (ICEGT 2011) | Application of Solar energy for industries | Periyar Maniammai University | 28.7.2011 |
| Trichy | National workshop on Energy Efficiency in Thermal/Mechanical systems | Energy Efficiency in Thermal systems | K. Ramakrishnan College of Engineering | 15.3.2011 |
| Calicut | National Conference on Recent Trends in Alternate Energy | CO2 sequestration using microalgae | NIT Calicut | 9-10 th June 2011 |
| Tiruchirappalli | National Conference on Renewable Energy | Applications of Solar Energy | Department of Petrochemical Engineering, Anna University | |

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|--|--|---|--|----------------------|
| Coimbatore | Energy Sustainability | Smart use of energy audits | Centre for Research & Excellence | 19.19.2010 |
| Andhra University | National Conference on Recent Trends on micro algal technologies | Photo bio reactor design for micro algae, Acted as panelist in the concluding Session | Dept. of Botany, Andhra university | April, 09. |
| India Habitat Center, Lodhi Road, New Delhi. | Workshop On Energy Technology Conclave: | Biosequestration Using Solar Energy. Acted as a Panelist. | India Energy Forum(IEF), Integrated Research and Action for Development (IRADe) and World Energy | 14.03.08 |
| Andhra University, Visakhapatnam | National conference | Recent developments in cultured algae | Andhra University | April 4-5 2009 |
| Manipal Institute of technology | National conference | Advances in energy conversion technologies(AECT 2008) | Manipal, Karnataka | 18-19 April 2008 |
| Institution of Engineers (GOI) | All India Workshop | "Recent trends in Energy Management" | Institution of Engineers (GOI), Tiruchirappalli local centre | 12-13th October 2007 |

19. Membership of Learned Societies

| Type of Membership (Ordinary Member/ Honorary Member / Life Member) | Organization | Membership No. with date |
|--|--|--------------------------|
| Silver Member | International Solar Energy Society (ISES) | 1110053 (March.2011) |
| Life Member | ISTE | LM31321 |
| Ordinary Member | Institution of Engineers | M-137819-2 |
| Life Member | Solar Energy Society of India | LM/1596/2011 |
| Ordinary Member | International society of applied phycology | From Mar. 2011 |

20. Academic Foreign Visits

| Country | Duration of Visit | Programme |
|----------------|-------------------|---|
| United Kingdom | 1998 | <p>Training in UK</p> <p>"Heat Pipes and Heat pumps", The Energy Group, Department of Engineering at The University of reading, 20th April- 29th May 1998, UK.</p> <p>" Photovoltaic Systems Course in Building Integrated PV systems Stand alone PV systems", The Energy Group, Department of Engineering at The University of reading, UK, 21st-22nd may 1998.</p> <p>"Training of IR thermal imaging, data loggers and Energy Management", Energy Design advise</p> |

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|--|--|---|
| | | <p>scheme (EDAS), Sheffield University, Uk, 1st – 25th February 1998. “Construction of Hospital Waste incineration and Hybrid Energy System”, Innovative Technology group, De Mont Fort University, Lincoln, School of Agriculture and Horticulture, UK, 1st -15th June 1998. “Energy audit for buildings” in Buildings Research Establishment, Garston- March 1998. “Energy audit for buildings” in University of Salford, Salford. January, June 1998. Activities carried out in UK Energy Audit for Newton Building in university of Salford, Salford. Energy Audit for Royal Manchester Children’s Hospital, Manchester. Calibration of hot chamber and air-conditioning chamber, Energy Design Advice Scheme (EDAS), University of Sheffield, Sheffield. Heat Pipe at forced and natural convection conditions, University of Reading, Reading. Effect of feed size on biogas production by anaerobic digestion process, innovative Technology Group, De Mont Fort University, Lincoln. Certification examination passed in 2008 Conducted by Bureau of Energy Efficiency (Certified Energy Auditor 2008-2013(EA0847)</p> |
|--|--|---|

21. Publications

(A) Referred Research Journals:

Annexure - I

(B) Conferences/Workshops/Symposia Proceedings

Annexure - II

(C) Books & Monographs

| Author(s) | Title of Book/Monograph | Name of Publishers | Year of Publication | ISSN/ISBN Number |
|------------|-------------------------|--------------------|---------------------|------------------|
| NIL | | | | |

Annexure – I

Research papers published in SCI journals

1. K. Sankaran, Lakshmi Pisharody, G. Suriya Narayanan, M. Premalatha. Bacterial assisted treatment of anaerobically digested distillery wastewater. RSC Advances 2015; 5: 70977-70984
2. Ramakant Pandey, Akhilesh Sahu, Vasumathi K K, Premalatha M. Studies on light intensity distribution

inside an open pond photo-bioreactor. *Bioprocess and Biosystems Engineering* 04/2015; 38(8): 1547-57.

3. K. Sudhakar, M. Premalatha. Characterization of micro algal biomass through FTIR/TGA/CHN analysis: Application to *Scenedesmus* sp. *Energy Sources Part A: Recovery Utilization and Environmental Effects* 10/2015; 37(18):1-8.
4. C. Naveen, M. Premalatha. Thermo gravimetric and kinetic studies on dried solid waste of post-methanated distillery effluent under oxygen and nitrogen atmosphere. *Bioresource Technology* 10/2014; 174:126–133.
5. K. Sankaran, M.Premalatha, M.Vijayasekaran, VT. Somasundaram. DEPHY project: Distillery wastewater treatment through anaerobic digestion and phycoremediation – A green industrial approach. *Renewable and Sustainable Energy Reviews* 2014; 37: 634-643.
6. Vasumathi KK, Premalatha M, Subramanian P. Experimental studies on the effect of harvesting interval on yield of *Scenedesmus arcuatus* var. *capitatus*. *Ecol. Eng.* 2013; 58:13-16.
7. Vasumathi KK, Premalatha M, Subramanian P. Parameters influencing the design of photobioreactor for the growth of microalgae. *Renew. Sust. Energ.* 2012;16(7):5443-50.
8. Sudhakar K, Srivastava T, Satpathy G, Premalatha M. Modelling and estimation of photosynthetically active incident radiation based on global irradiance in Indian latitudes. *Int. J. Energ. Environ. Eng.* 2013;4:21.
9. Sudhakar K, Rajesh M., Premalatha M. Carbon Mitigation potential of *Jatropha* biodiesel in Indian Context, *Energ. Procedia* 2012;14:1421-26.
10. Sudhakar, K, Rajesh M, Premalatha M. A Mathematical Model to Assess the Potential of Algal Bio-fuels in India. *Energ. Sour. A: Recovery, Utilization, and Environmental Effects* 2012; 34(12):1–7.
11. Sudhakar K, Rajesh M, Premalatha M. Large-scale open pond algae biomass yield analysis in India: a case study, *Int. J. Sust. Energ.* 2012; iFirst:1-12.
12. Sudhakar K, Suresh S, Premalatha M. An Overview of CO₂ mitigation using algae cultivation technology. *Int. J Chem. Res.* 2011;3(3):110-17.
13. Sudhakar K, Premalatha M.. Techno economic Analysis of Micro algal Carbon Sequestration and Oil Production. *Int. J Adv. Eng. Sci. Technol.* 2011;12(2):46-53.
14. Sudhakar K, Premalatha M. Theoretical Assessment of Algal Biomass Potential for Carbon Mitigation and Biofuel Production. *Iranica J. Energ. Environ.* 2012; 3(3): 232-240.

15. Sudhakar K, Premalatha M. Micro-algal Technology for Sustainable Energy Production: State of the Art. *J. Sust. Energ. Environ.* 2012; 3:59-62.

International Journal

1. Shanmuga Priya S, Premalatha M, Subramanian P. Role of optical density on the choice of photolytic reactor. *IJEE*, 2014; Vol.6; Issue 2; 136-151.
2. Sankaran K and Premalatha M. Coupling Microalgae technology in the treatment process of distillery wastewater. *IJATER*, 2014; Vol.4; Special Issue 2; 94-97.
3. Vasumathi KK, Premalatha M, Subramanian P. Experimental studies on the effect of harvesting interval on yield of *Scenedesmus arcuatus var. capitatus*. *Ecol. Eng.* 2013; 58:13-16.
4. Vasumathi KK, Premalatha M, Subramanian P. Parameters influencing the design of photobioreactor for the growth of microalgae. *Renew. Sust. Energ.* 2012;16(7):5443-50.
5. Sudhakar K, Srivastava T, Satpathy G, Premalatha M. Modelling and estimation of photosynthetically active incident radiation based on global irradiance in Indian latitudes. *Int. J. Energ. Environ. Eng.* 2013;4:21.
6. Sudhakar K, Rajesh M., Premalatha M. Carbon Mitigation potential of Jatropha biodiesel in Indian Context, *Energ. Procedia* 2012;14:1421-26.
7. Sudhakar, K, Rajesh M, Premalatha M. A Mathematical Model to Assess the Potential of Algal Bio-fuels in India. *Energ. Sour. A: Recovery, Utilization, and Environmental Effects* 2012; 34(12):1-7.
8. Sudhakar K, Rajesh M, Premalatha M. Large-scale open pond algae biomass yield analysis in India: a case study, *Int. J. Sust. Energ.* 2012; iFirst:1-12.
9. Sudhakar K, Suresh S, Premalatha M. An Overview of CO₂ mitigation using algae cultivation technology. *Int. J Chem. Res.* 2011;3(3):110-17.
10. Sudhakar K, Premalatha M.. Techno economic Analysis of Micro algal Carbon Sequestration and Oil Production. *Int. J Adv. Eng. Sci. Technol.* 2011;12(2):46-53.
11. Sudhakar K, Premalatha M. Theoretical Assessment of Algal Biomass Potential for Carbon Mitigation and Biofuel Production. *Iranica J. Energ. Environ.* 2012; 3(3): 232-240.
12. Sudhakar K, Premalatha M. Micro-algal Technology for Sustainable Energy Production: State of the Art. *J. Sust. Energ. Environ.* 2012; 3:59-62.
13. Akhilesh Kumar Sahu, Vasumathi KK, Premalatha M. Simulation of solar light intensity distribution in open pond photobioreactor. *Int. J. Curr. Sci.* (2011);50-57.
14. I.Neethimanikam, V.Kirubakaran, V.Sivaramakrishnan, M.Premalatha and P.Subramanian, "Kinetics of Auto-Gasification of coir pith", *Journal of Current Sciences (An International Triannual publication of Society of Sciences – ISSN 0972-6101) Vol. 10 (1), pp 33-42 [2007] - Published.*

15. V.Sivaramkrishnan, V.Kirubakaran, M.Premalatha and P.Subramanian, "Experimental study on waste heat recovery for sustainable industrial systems" Journal of Current Sciences (An International Triannual publication of Society of Sciences – ISSN 0972-6101) Vol. 9 (2), pp 489-496 [2006] - Published.
16. S.Shanmuga Priya, M. Premalatha, P. Subramanian," Role of optical density on the choice of photolytic reactor", International Journal of Environmental Engg", (Manuscript ID: IJEE – 7395), Accepted for publication, In press, 2010.
17. S.Shanmuga Priya, M.Premalatha, N.Anantharaman, "Solar Photocatalytic treatment of phenolic wastewater: Potential, Challenges and Opportunities", Journal of Engineering and Applied Sciences, Asian Research Publishing Network, ISSN 1819-6608, Vol:3,No:6,December 2008, pp:36-41.
18. S.Shanmuga Priya, M.Premalatha, N.Anantharaman, "Feasibility studies on solar photo degradation of phenol", International Journal of Applied Engineering Research, ISSN (Online) 1087 -1090, ISSN(Print) 0973-4562, Vol: 3, No:10, October 2008, pp. 1329- 1336.
19. Akilesh Kumar Saho, K.K. Vasumath, M. Premalatha, Simulation of solar light intensity distribution in open pond photobioreactor. International Journal of Current Science. Volume 1. 2011. 50-57 (ISSN: 2250-1770)
20. PG Nikhil, M. Premalatha. Performance enhancement of solar module by cooling: An experimental Investigation. International Journal of energy and Environment. Volume 3. Issue 1, 2012, pp -73-82.

National Journal

1. M.Premalatha, S.Shanmuga Priya and V.Kirubakaran, "Tapioca: source of bio fuels for India", eNREE, TERI, 4 (1), pp 4-7 [2007]
2. V.Sivaramkrishnan, V.Kirubakaran, M.Premalatha and P.Subramanian, "Kinetics of Auto-Gasification of bagasse for energy augmentation", Indian Journal of Environment and Eco Planning (An official triannual publication of Society of Environmental Scientists ISSN0972-1215), Vol 12 (3), pp 591-598 [2006]
3. V.Kirubakaran, V.Sivaramkrishnan, M.Premalatha and P.Subramanian, "Investigation of Energy Recovery from Poultry Litter and Municipal Solid Waste by Thermochemical Conversion Method in India", Journal of Environmental Science & Engineering 47, 4, pp 266-275 [2005]
4. S. Shanmuga Priya, M. Premalatha, P. Subhamanian "Elucidation of kinetics of photolysis of phenol", Journal of the Institution of Engineers (Chemical Engg Division) Vol: 90, Sep 2009, pp: 10-16.
5. S.Shanmuga Priya, M.Premalatha, I.Thirunavukkarasu, "Solar Photocatalytic treatment of phenol wastewater", Journal of Institution of Engineers (Chemical Engineering division),Vol : 89, March 2009, pp.31-35.

6. M.Premalatha, S.Shanmuga Priya, V.Sivamakrishnan, "Efficient cogeneration scheme for sugar industry",
Journal of Scientific & Industrial Research/ S & T and Industrial Research, ISSN (Print): 0022-4456, Vol: 67, No: 3, March 2008, pp.239-242.
7. S.Shanmuga Priya, M.Premalatha, "Solar Energy as a best energy option for treatment of Phenol", Journal of
Solar Energy Society of India, Taylor and Francis publishers, Accepted for publication, In press, 2010.

8. M.Premalatha and I.Neethi Manickam “Energy Conservation in Lightly loaded induction motors in cement plants – A case study”, Cement, Energy and Environment, Vol 5, No.3, P. 7-9, July-September 2001.
9. M.Premalatha and I.Neethi Manickam “Energy Conservation in Lighting in cement plants – A case study”, Cement, Energy and Environment, Vol 5, No.3, P 10-11, July-September 2001.
10. S. Saravanan, M.Premalatha, G.Punitha and P. Subramanian Improving Piping Design”, Hydrocarbon Processing, P. 59-61, May 1996.
11. S. Saravanan, Chetan T. Goudar, M.Premalatha and P. Subramanian “Development of Novel Anaerobic Digester- Apoorva Lakshmi”, Biogas Forum Impressum,1996/II No.65, Bremen Overseas Research and Development Association (BORDA), Germany,1996.

Annexure - II

Papers published in International Conference

1. Sankaran K, Suriya Narayanan G and Premalatha M. Enhancing biogas potential of distillery wastewater through phycoremediation. Conference publication, ICACE TKMCE'14 Elsevier Published in conference proceedings, pp.220-223, 2014
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Annexure-5

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