

Profile Page



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Research Interests :

Polygeneration, power free solar trackers, hybrid solar-biomass systems, conducting exergy scrutinizing, heat recovery options in cement factory, desalination, solar cooling, advanced combined cycle systems, ORC and KCS plants

Other Profile Links :

Google Scholar Link :

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Journal Publications :

| Year | Journal | Publication |
|------|--|---|
| 2019 | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 41(3), pp.298-308. | Ganesh, N. S., and Srinivas, T., Nuclear energy-driven Kalina cycle system suitable for Indian climatic conditions |
| 2018 | I J of Refrigeration 91: 146-157 | Shankar, R., Srinivas, T., Novel cooling augmented cogeneration cycle |
| 2018 | I J of Refrigeration 86: 163-185 | Shankar, R., Srinivas, T., Performance investigation on Kalina cooling cogeneration cycle |
| 2018 | Applied Solar Energy, 54(3), 213-219. | Samuel, V., Srinivas, T. and Reddy, B.V., Effect of Inlet Air Humidity on Performance of Solar Hybrid Combined Cycle Power Plant. |

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| 2018 | Applied Solar Energy 54(1), 65-70. | Shankar, R., Srinivas, T., Reddy, B.V., Investigation of Solar Cooling Cogeneration Plant |
| 2017 | Renewable and Sustainable Energy Reviews 75C: 402-414. | Pradeep Varma, G.V. and Srinivas,T. Power generation from low temperature heat recovery |
| 2017 | Applied Solar Energy 53(3): 84-93. | Shankar, R., Srinivas, T., Reddy, B.V., Thermodynamic evaluations of solar cooling cogeneration using NaSCN-NH ₃ mixture |
| 2017 | Applied Solar Energy 53(3): 243-249. | Anand, B., Srinivas, T., Performance evaluation of photovoltaic/thermal HDH desalination system |
| 2017 | Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science 231(13): 2503-2514. | Natarajan, M. and Srinivas,T. Design and analysis of a gravity based passive tracking mechanism to a linear solar concentrating collector |
| 2017 | I J of Refrigeration, 80: 106–119. | Chiranjeevi, C and Srinivas, T. Augmented desalination with cooling integration |
| 2017 | ASCE J of Energy Engineering, 143(1): 1-12. | Pradeep Varma, G.V. and Srinivas,T. Power augmented steam power plant in a cogeneration cement factory |
| 2017 | Applied Solar Energy 53(1): 61–71. | Shankar, R, and Srinivas, T. Cooling cogeneration cycles |
| 2017 | Renewable Energy, 105: 312-323. | Natarajan, M. and Srinivas,T. Experimental and simulation studies on a novel gravity based passive tracking system for a linear solar concentrating collector |
| 2017 | ASME Journal of Thermal Science and Engineering Applications 9: 1-9. | Suraj, M. Chiranjeevi, C., Srinivas,T and ThundilKarupparaj R., Experimental and CFD studies on dehumidifier in a combined cooling and desalination plant |
| 2016 | Alexandria Engineering Journal 55(3): 1961–1967. | Chiranjeevi, C and Srinivas, T., Influence of vapor absorption cooling on humidification-dehumidification (HDH) |
| 2016 | Journal of Power Technologies 96 (2): 81–91. | Pradeep Varma, G.V. and Srinivas,T. Comparative study on steam flash, organic flash and Kalina for enhanced power generation from waste heat recovery |
| 2015 | Int. J. Energy Technology and Policy 11(4): 358-370. | Shankar Ganesh, N. and Srinivas, T. Energy efficient power generation systems at low and medium heat recoveries |
| 2015 | Applied Solar Energy 51(4): 274–282. | Natarajan, M, and Srinivas, T. Study on solar geometry with tracking of collector |
| 2015 | Int. J. Energy Technology and Policy 11(3): 234-245. | Shankar Ganesh, N. and Srinivas, T. Exergy analysis of energy efficient power generation system |
| 2015 | Desalination 376(16):9-16. | Chiranjeevi, C and Srinivas, T. Experimental and simulation studies on two stage humidification-dehumidification desalination and cooling plant |
| 2015 | Case Studies in Thermal Engineering 5, 24-31. | Pradeep Varma, G.V. and Srinivas, T. Design and analysis of a cogeneration plant using heat recovery of a cement factory |
| 2015 | International Journal of Green Energy 12, 585–594. | Srinivas,T. Reddy, B.V. and Gupta, A.V.S.S.K.S. Thermal performance of biomass plant with triple generation system |
| 2014 | Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy 228 (8), 953-964. | Shankar, R. and Srinivas,T. Coupled cycle with Kalina cycle system and vapor absorption refrigeration, Proceedings of the Institution of Mechanical Engineers, |
| 2014 | Sadhana - Academy Proceedings in Engineering Sciences 39(6), 1547–1562. | Shankar, R. and Srinivas,T. Development and analysis of a new integrated power and cooling plant using LiBr-H ₂ O mixture |
| 2014 | International Journal of Energy Research 38(9):1201-1213. | Srinivas,T. and Reddy, B.V. Comparative studies of augmentation in combined cycle power plants |
| 2014 | Energy Conservation and Management 85(C):7-12. | Srinivas, T. and Reddy, B.V. Study on power plants arrangements for integration |

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| 2014 | ASME Journal of Solar Energy Engineering 136(3):1-10. | Shankar, R. and Srinivas, T. Investigation on operating processes for a new solar cooling cogeneration plant |
| 2014 | ASME Journal of Energy Resources Technology 136(2):1-10. | Srinivas, T. and Reddy, B.V. Thermal optimization of a solar thermal cooling cogeneration plant at low temperature heat recovery, |
| 2014 | Case Studies in Thermal Engineering 2(C): 75-81. | Srinivas,T. and Reddy, B.V. Hybrid solar-biomass power plant without energy storage |
| 2014 | Thermal Science 18(s2):s393-s404. | Shankar Ganesh, N. and Srinivas,T. Processes development for high temperature solar thermal Kalina power station |
| 2013 | ASME Journal of Solar Energy Engineering, 135(3): 1-10. | Shankar Ganesh, N. and Srinivas,T. Power augmentation in a Kalina power station for medium temperature low grade heat |
| 2013 | ASCE Journal of Energy Engineering 139(2): 99-108. | Shankar Ganesh, N. and Srinivas,T. Thermodynamic assessment of heat source arrangements in Kalina power station |
| 2012 | ASME Journal of Energy Resources Technology, 134(2): 1-9. |] Srinivas,T. Reddy, B.V. and Gupta, A.V.S.S.K.S. Thermal performance prediction of a biomass based integrated gasification combined cycle plant |
| 2012 | Applied Energy 91(1): 180-186. | Shankar Ganesh, N. and Srinivas,T. Design and modeling of low temperature solar thermal power station. |
| 2012 | International Journal of Energy Technology and Policy 8(1): 94-107. | Srinivas,T. and Vignesh, D. Performance enhancement of GT-ST power plant with inlet air cooling using lithium bromide/water vapor absorption refrigeration system, |
| 2011 | International Journal of Energy Technology and Policy, 7(5/6), 469-488. | Sreeramulu, M., Gupta A.V.S.S.K.S. and Srinivas T., Exergy analysis of gas turbine – solid oxide fuel cell-based combined cycle power plant |
| 2011 | Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy 225 (3), 249-258, Professional Engineering Publishing. | Srinivas,T. Reddy, B.V. and Gupta, A.V.S.S.K.S. Biomass fueled integrated power and refrigeration system |
| 2011 | International Journal of Thermodynamics 14(1): 29-36. | Srinivas,T. Reddy, B.V. and Gupta, A.V.S.S.K.S. Parametric simulation of combined cycle power plant: A case study, |
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| 2009 | Energy 34(9): 1364-1371. | Srinivas,T. Study of a deaerator location in triple pressure-reheat combined power cycle |
| 2009 | Energy for Sustainable Development, International Energy Initiative 13(1): 33-37. | Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. Carbon dioxide emission reduction from combined cycle with partial oxidation of natural gas. |
| 2008 | Cogeneration and Distributed Generation Journal 23(4): 50-63. |] Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. Thermodynamic simulation of a combined cycle power plant at part load operation. |
| 2008 | International Journal of Thermal Sciences 47(9):1226-1234. | Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. Sensitivity analysis of STIG based combined cycle with dual pressure HRSG |
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| 2008 | Journal of Scientific and Industrial Research 67(10): 827-834. | Srinivas,T., Gupta, A.V.S.S.K.S. and Reddy, B.V. Thermodynamic modeling and optimization of multi-pressure heat recovery steam generator in combined power cycle |
| 2007 | Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy 221 (7): 873-883. | Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. Parametric simulation of steam injected gas turbine combined cycle |
| 2007 | International Journal of Thermodynamics 10(4): 177-185. | Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. Generalized Thermodynamic Analysis of Steam Power Cycle with 'n' number of Feedwater Heaters |
| 2007 | Journal of the Institution of Engineers (India): Mechanical Engineering Division 87 (JAN.): 56-63. | Srinivas,T., and Gupta, A.V.S.S.K.S. Thermodynamic analysis of Rankine cycle with generalization of feed water heaters |
| 2006 | International Journal of Energy Research 30(1): 19-36. | Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. and Nag, P.K. Parametric analysis of a coal based combined cycle power plant |

Conference Publications :

| Year | Conference | Publication |
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| 2018 | International conference on Desalination (InDACON-2018), National Institute of Technology, Tiruchirapalli, India, 20th and 21st April 2018. | Shankar, R. Chiranjeevi C. and Srinivas T., Experimental Studies on a Hybrid Desalination and Cooling Plant |
| 2018 | International conference on Desalination (InDACON-2018), National Institute of Technology, Tiruchirapalli, India, 20th and 21st April 2018. (Won best paper award). | Anand, B. and Srinivas T., Combine Power, Cooling and Desalination using Concentrated Photovoltaic/Thermal System |
| 2017 | 6th International Conference on Advances in Energy Research 2017, IIT Bombay, December 12–14, 2017. | Anand B and Srinivas T., Process Integration: Combined Power and Desalination using CPV/T-HDH System |
| 2017 | International conference on Trends and Advanced Research in Green Energy Technologies, ICTARGET-2017, VIT University, Vellore, 30-31 March 2017. | Shankar R and Srinivas T., Investigation of Solar Cooling Cogeneration Plant |
| 2016 | ICCMEET-2016, SVS College of Engineering, Coimbatore, TN, India, February 26-27, 2016 | Chiranjeevi C. and Srinivas T., Parametric study on a two stage humidification and dehumidification desalination plant |
| 2015 | International Conference on Advanced in Energy Research (ICAER 2015), IIT Bombay, India, 15-17 December, 2015. | Kalidasan B, Shankar R, Srinivas,T., Priyank Agarwal, Absorber tube with internal hinged blades for solar parabolic trough collector. |
| 2015 | International Conference on Advanced in Energy Research (ICAER 2015), IIT Bombay, India , 15-17 December, 2015. | Shankar R, Srinivas,T., Comparison Study of Aqua-Ammonia and LiBr-Water Solar Cooling Cogeneration Cycle |
| 2015 | International Conference on Advanced in Energy Research (ICAER 2015), IIT Bombay, India , 15-17 December, 2015. | Chiranjeevi C, Srinivas,T., Experimental studies on a combined two stage desalination and cooling plant |
| 2015 | International Conference on Advanced in Energy Research (ICAER 2015), IIT Bombay, India , 15-17 December, 2015. | Pradeep Varma, G.V., Srinivas,T., Investigation on optimum steam flushing pressure in a cogeneration cement factory |

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| 2015 | IEEE International Conference on Emerging in Science, Engineering, Business and Disaster Management ICBDM 2015, 27-28 February, 2015, Noor Islam University, Nagercoil, Tamilnadu, India, pp.26 | Shankar, R. and T. Srinivas, Analysis of new cooling cogeneration cycle using aqua-ammonia |
| 2015 | International Conference on Renewable Energy and Sustainable Environment RESE 15, Dr. Mahalingam College of Engineering and Technology, Pollachi-642003, India. August 10-13, 2015. | Chiranjeevi C., Srinivas T. and Ashutosh Singh, 'Effect of cooling system on the performance of dehumidifier in a desalination plant' |
| 2015 | International Conference on Renewable Energy and Sustainable Environment RESE 15, Aug 10-13, Dr.Mahalingam Engineering College, Pollachi, 1-6. | Shankar, R. and Srinivas T. LiBr-Water Single Effect Double Power Solar Combined Power and Cooling Cycle |
| 2015 | Proceedings of TC-IFES, CLRI, May 1 & 2, Chennai, pp.81. | Shankar, R. and Srinivas T. LiBr-water single effect double power combined power and cooling cycle |
| 2015 | Proceedings of ICBDM, Feb 27&28, Noor Islam University, pp.26. | Shankar, R. and Srinivas T. Analysis of new cooling cogeneration cycle using aqua-ammonia |
| 2015 | Proceedings of TC-IFES, CLRI, May 1 & 2, Chennai, pp.79. | Kalidasan B, R. Shankar and Srinivas T. Experimental study on power generation using solar & biomass hybrid |
| 2015 | 2nd International Conference on Bioenergy Environment and Sustainable Technologies (BEST2015), Jan 28-31, Arunai Engineering College, Thruvanamalai, pp.53. | Shankar, R. and Srinivas T. Parametric investigation on aqua-ammonia based cooling cogeneration plant |
| 2015 | International Conference on Advanced in Energy Research (ICAER 2015), IIT Bombay, India, 15-17 December, 2015. | Natarajan M, Srinivas,T., Optimization of incidence angle for the solar tracker in single and dual axis mode for year around operations |
| 2014 | International Conference on Advances in Mechanical Engineering, Energy Systems and Sustainability (ICAMES – 2014), LNCT Group Institutions, Gwalior, December 22-23, 2014. | Srinivas,T., Reddy, B.V., and Shankar, R., Cooling cogeneration systems |
| 2014 | International Conference on Green Technology for Environmental Pollution Prevention and control (ICGTEPC 2014), Department of Chemical Engineering, National Institute of Technology Tiruchirappalli (NITT), India , 27th – 29th September 2014. | Chiranjeevi, C., Srinivas,T., Shankar, R., Thermodynamic analysis of two stage solar humidification dehumidification desalination system |
| 2014 | International Conference on Green Technology for Environmental Pollution Prevention and control (ICGTEPC 2014), Department of Chemical Engineering, National Institute of Technology Tiruchirappalli (NITT), India , 27th – 29th September 2014, p.229. | Kalidasan, B., Srinivas,T. Thermal study on indirect heating solar flat plate collector with a focus on number of transparent covers and its refractive index |
| 2014 | 10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, HEFAT2014, Orlando, Florida (USA), 14-16 July, 2014. | Kumara Swami Gupta, A.V.S.S., Kolar Deepak, Srinivas, T., Thermodynamic Modelling and Analysis of Low Temperature Kalina Cycle System for Geothermal Sources of India |
| 2014 | International Conference on Modeling Optimization and Computing 2014, April, 10-11, 2014 (ICMOC 2014), NICHE, Kumaracoil, Thuckalay, South India (Won best paper award). | Shankar, R., Srinivas, T. Integration of Solar Thermal Based Power and Cooling Cycle with 50:50 Power Mass Split Ratio |

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| 2014 | International Conference on Modeling Optimization and Computing 2014, April, 10-11, 2014 (ICMOC 2014), NICHE, Kumaracoil, Thuckalay, South India. | Raj Kumar, P., Shankar, R., Srinivas, T. Economic Analysis of Solar Collector with Different Thermic Fluids of LiBr-Water Vapour Absorption Refrigeration System |
| 2013 | 4th International Conference on Advances in Energy Research, IIT Bombay, December 2013, pp 398-402. | Shankar, R., Srinivas, T. Combined Power and Cooling using Aqua-Ammonia Vapor Absorption Refrigeration System |
| 2013 | 4th International Conference on Advances in Energy Research, IIT Bombay, December 2013, pp 1132-1140 | Shankar, R., Rajkumar, P., Srinivas, T. Energy and Exergy Analyses of LiBr-Water Double Solar Vapor Absorption Refrigeration System Coupled Using Condenser |
| 2013 | International Conference on Energy Efficient Technologies for Sustainability” (ICEETS 2013), 10th - 12th April 2013, St. Xavier’s Catholic College of Engineering, Nagercoil, India. | Srinivas,T., Reddy.B.V., Natarajan, R. and Sriram, S., Thermodynamic and heat transfer studies on solar Stirling engine |
| 2013 | 2nd International Conference on Emerging Trends in Engineering & Technology, April 12, 13, 2013 College of Engineering, Teerthanker Mahaveer University, India. | Venkata Ramayya Naidu, K., Srinivas, T., Mahesh Babu., G., Design and Analysis of Biogas generation, Purification and Power generation from Cattle and Agricultural wastes – A case study |
| 2012 | 8th International Symposium on Fuels and Lubricants, New Delhi, March 5-7, 2012, India. | Srinivas,T. and Natarajan, R., Kinetic study and production of biogas using withered flowers in comparison with waste vegetables and its application |
| 2012 | International Symposium On ‘Recent Advances in Integrated Energy and Energy Conservation (RAIEEC-2012)’ 19th & 20th, December 2012, JNTU, Hyderabad. | Srinivas, T. Integrated energy systems |
| 2012 | 2nd International Conference on Advances in Mechanical, Manufacturing and Building Sciences, ICAMB-2012, January 09-11, 2012, VIT University, Vellore. | Sreeramulu. M., A.V.S.S.K.S. Gupta and Srinivas,T., Thermodynamic performance analysis of integrated pressurized fuel cell-gas turbine combined cycles for power generation |
| 2011 | International Conference on Advances in Energy Research, IIT Bombay, Dec, 2011. | Shankar. R, Srinivas, T., Performance upgradation of solar thermal based power and vapor absorption refrigeration |
| 2011 | International Conference on Futuristic Trends in Materials & Energy Systems, FTME-2011, December 29-30, 2011, VR Siddartha Engineering College, Vijayawada. | Srinivas,T., Reddy, B.V., and Gupta, A.V.S.S.K.S., New Trends in GT-ST Hybrid Power Plants |
| 2011 | International Conference on Futuristic Trends in Materials & Energy Systems, FTME-2011, December 29-30, 2011, VR Siddartha Engineering College, Vijayawada. | Shankar Ganesh. N., and Srinivas,T. Thermodynamic Optimization of A Solar Thermal Kalina Power Station for Low Temperature Heat Recovery |
| 2011 | International Conference on Green Technology and Environmental Conservation (GTEC 2011) Sathyabama University, Chennai, December 15-17, 2011. | Shankar Ganesh, N. and Srinivas, T., Parametric analysis of eco friendly Kalina cycle |
| 2011 | International Conference on Advances in Energy Research (ICAER 2011), IIT Bombay, December 9-11, 2011. | Shankar Ganesh, N. and Srinivas, T., Exergetic analysis of new Kalina cycle |
| 2011 | International Conference on Advances in Energy Research (ICAER 2011), IIT Bombay, December 9-11, 2011. | Shankar Ganesh, N. and Srinivas, T., Parametric analysis of new Kalina cycle using MATLAB |

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| 2011 | ASME 9th International Conference on Fuel Cell Science, Engineering and Technology, Paper No. FuelCell2011-54783, pp. 85-94, Washington, DC, USA, August 7–10, 2011, ISBN: 978-0-7918-5469-3. | Sreeramulu, M., Gupta, A.V.S.S.K.S., and Srinivas, T., Energy and Exergy Analysis of Gas Turbine – Fuel Cell Based Combined Cycle Power Plant |
| 2011 | Second International Conference on Recycling and Reuse of Materials, ICRM – 2011, 5, 6 & 7, August 2011, Mahatma Gandhi University, Kottayam, Kerala. | Srinivas,T., and Reddy, B.V., Biomass based integrated energy systems for power alone and combined power and cooling |
| 2011 | Second International Conference on Recycling and Reuse of Materials, ICRM – 2011, 5, 6 & 7, August 2011, Mahatma Gandhi University, Kottayam, Kerala. | Reddy, B.V., and Srinivas,T., Role of biomass, municipal solid waste and other waste resources in power generation and to reduce global warming |
| 2011 | International Conference on Global Manufacturing and Management (ICGMSM 2011), CIT, Coimbatore, August 1-3, 2011. | Shankar Ganesh, N and Srinivas, T Simulation of power generation cycle suitable for low temperature applications |
| 2011 | International Conference on Harnessing Technology, February 13th & 14th, 2011, Caledonian College of Engineering, Muscat. | Srinivas,T. Reddy, B.V., Gupta, A.V.S.S.K.S., and Shankar Ganesh N., Design and Modeling of 5 kWe solar thermal power station |
| 2011 | International Conference on Harnessing Technology, February 13th & 14th, 2011, Caledonian College of Engineering, Muscat. | Srinivas,T. Reddy, B.V. and Gupta, A.V.S.S.K.S., Integration of Hybrid power system using biomass fuel |
| 2011 | Proceedings on International Conference on Thermal Energy and Environment (INCOTEE 2011), 24-26 March 2011, Kalasalingam University, Krishnankoil. | Sreeramulu, M., Gupta, A.V.S.S.K.S. and Srinivas, T, Exergy Analysis of Gas Turbine – Fuel cell based combined Cycle Power Plant |
| 2011 | Proceedings on International Conference on Thermal Energy and Environment (INCOTEE 2011) 24-26 March 2011, Kalasalingam University, Krishnankoil. | Shijo P.J., and Srinivas T., Experimental Development of Solar based Intermittent Vapour Absorption Refrigeration Unit |
| 2011 | International Conference on “Thermal Energy and Environment (INCOTEE 2011), 24-26 March 2011, Kalasalingam University, Krishnankoil. | Vignesh.D and Srinivas T., Integrated VAR System for Performance Upgradation of CCP using Waste Heat Recovery |
| 2011 | International Conference on Thermal Energy and Environment (INCOTEE 2011), 24-26 March 2011, Kalasalingam University, Krishnankoil. | Christy, C. and Srinivas, T., Experimental analysis of glazing material on performance of solar flat plate collector |
| 2010 | International Conference on Novel Applications of Nano Technology, Sep 29-Oct 1, 2010, Arunai Engg. College, Tiruvannamalai. | Shankar Ganesh. N. and Srinivas. T., Efficiency calculation of Kalina cycle using MatLab |
| 2009 | International Conference on Advances in Mechanical & Building Sciences in 3rd Millennium ICAMB 2009, 14-16 December, 2009, VIT University, Vellore. | Praveena. M., and Srinivas. T., Emission Reduction and Performance Up-grading Using Water/Steam Injection in a Natural Gas Fired Combined Cycle Power Plant - A Case Study |
| 2009 | International Conference on Advances in Mechanical & Building Sciences in 3rd Millennium ICAMB 2009, 14-16 December, 2009, VIT University, Vellore. | Gupta, A.V.S.S.K.S., Srinivas,T., and Reddy, B.V., Study of partial oxidation of natural gas in combined cycle |
| 2009 | International Conference on Advances in Mechanical & Building Sciences in 3rd Millennium ICAMB 2009, 14-16 December, 2009, VIT University, Vellore. | Shankar Ganesh. N. and Srinivas.T. Evaluation of thermodynamic properties of ammonia-water mixture up to 100 bar for power application systems |
| 2009 | Proceedings of the ASME 3rd International Conference on Energy Sustainability, ICONE14, July 19-23, 2009, Westin St. Francis Hotel, San Francisco, CA, ES2009-90453. | Gupta, A.V.S.S.K.S., Srinivas,T. and Reddy, B.V. Study of multi-pressure effect in heat recovery steam generator in a combined cycle power plant, |

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| 2009 | The 2nd Thammasat University International Conference on Chemical, Environmental and Energy Engineering Co-organized by Department of Chemical Engineering, Tokyo Institute of Technology, Japan, pp.135-144, March 3-4, 2009, Bangkok, Thailand. | Gupta, A.V.S.S.K.S., Srinivas,T. and Reddy, B.V. Thermodynamic analysis of hydrogen fueled combined cycle power generation |
| 2008 | Alternative Energy Symposium, Chicago, IL, October 2nd & 3rd, 2008, The Center for Alternative Energy Technology (CAET), American Science and Technology, Chicago State University. | Gupta, A.V.S.S.K.S., Srinivas,T., and Reddy, B.V. Comparative study of different combined cycle configurations based on thermodynamic simulation |
| 2008 | International Conference on Recent advances in Materials, VRSEC Vijayawada, pp.1 to13, July 3-4, 2008. | Reddy, B.V. Gupta, A.V.S.S.K.S. Ratna Prasad, A.V. and Srinivas,T. The role of advanced materials and innovative designs for sustainable energy systems for reduced global warming |
| 2008 | 19th National Heat and Mass Transfer Conference and 8th ISHMT/ ASME Heat and Mass Transfer Conference, JNTU Hyderabad, January 3-5, 2008. | Srinivas,T., Gupta, A.V.S.S.K.S. and Reddy, B.V. Second law analysis of zero emission gas power plant |
| 2008 | 3 Day National Seminar on Applications of Optimization Techniques in Mechanical Engineering sponsored by AICTE, Gudlavalleru Engineering College, Gudlavalleru, January 18-20, 2008. | Srinivas,T. Optimum performance of a combined cycle power plant with simulation at part loads |
| 2007 | International Conference on Advances in Energy Research, IIT Bombay, pp.717-723, December 12-14, 2007. | Srinivas.T. Gupta. A.V.S.S.K.S. and Reddy. B.V. Emission reduction with partial oxidation of natural gas in combined cycle |
| 2007 | International Conference & XX National Conference on IC Engines and Combustion, JNTU Hyderabad, pp.148-154, December 6-9, 2007. | Srinivas,T., Gupta, A.V.S.S.K.S. and Reddy, B.V. Thermodynamic analysis of partial combustion of natural gas for hydrogen production to reduce emissions from combined cycle |
| 2006 | International Conference on Fluid and Thermal Energy Conversion 2006 Jakarta, Indonesia, pp.187-1 to 11, December 10-14, 2006. | Gupta, A.V.S.S.K.S. Srinivas, T. and Reddy, B.V. Second law simulation of triple cycle power generation |
| 2006 | 18th National Heat and Mass Transfer Conference and 7th ISHMT/ ASME Heat and Mass Transfer Conference, IIT, Guwahati, pp.1847-1854, January 4-6, 2006. | Srinivas,T. and Gupta, A.V.S.S.K.S. Exergy analysis of coal gasifier and gas turbine combustion chamber |
| 2006 | National Conference on State of the Art of Technologies in Mechanical Engineering (NCSAME-2006), JNTU college of Engineering, Hyderabad, May 5-6, 2006. | Srinivas,T., Gupta, A.V.S.S.K.S. and Reddy, B.V. Modeling and evaluation of 210 MW thermal power station |
| 2006 | National Conference on Emerging Trends in Mechanical Engineering – ETIME 2006, BMSCE, Bangalore, February 10-11, 2006. | Srinivas,T. Gupta, A.V.S.S.K.S. and Ravindra Babu, P. Generalized mathematical model for thermodynamic analysis of Rankine cycle with reheating and regeneration |
| 2004 | 17th National Heat and Mass Transfer Conference and 6th ISHMT/ ASME Heat and Mass Transfer Conference, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakam, pp.973-978, January 5-7, 2004. | Srinivas,T. Gupta, A.V.S.S.K.S. Reddy, B.V. and Nag, P.K. Second law analysis of a coal based combined cycle power plant |
| 2004 | National Conference on State of the Art of Technologies in Mechanical Engineering' (NCSAME-2004), JNTU college of Engineering, Hyderabad, pp.305-312, June 29-30, 2004. | Srinivas,T. and Gupta, A.V.S.S.K.S. Exergy Analysis of co-generation power cycle |

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| 2004 | National Conference on Design, Simulation and Modeling of Mechanical Systems, JNTU college of Engineering, Kakinada, pp.191-195, May 7-8, 2004. | Srinivas,T. Gupta, A.V.S.S.K.S. and Ravindra Babu, P. Thermodynamic analysis of Rankine cycle with feed water heaters |
|------|---|---|

Book/Chapter Publications :

| Type | Title | Publisher | Authors | ISBN/ISSN No. | Year |
|--------------|---|--|--|-------------------|------|
| Book | Flexible Kalina Cycle Systems | Taylor and Francis Publishers, CRC press | Srinivas, T. Shankar Ganesh N and Shankar R. | 9781771887137 | 2019 |
| Book Chapter | Exergy Analysis for Energy Systems, Green Energy and Technology, Book title: Exergy for A Better Environment and Improved Sustainability, Volume 1, Series title: Green Energy, Technology | Springer, Cham | Srinivas T. . | 1865-3529 E | 2018 |
| Book | Desalination and Cooling Integration | LAP LAMBERT Academic Publishing | Srinivas, T. and C.Chiranjeevi | 978-3-330-05775-3 | 2017 |
| Book Chapter | Chapter 10: Biomass-Based Integrated Power and Cooling Systems, Recycling and Reuse of Materials and Their Products, Volume 3 of the Advances in Materials Science book series | CRC Press, Apple Academic Press, Inc., Taylor & Francis Group, | Srinivas, T. and Reddy, B.V. | 978-1-926895-27-7 | 2013 |
| Book Chapter | Chapter 1: Role of Waste Resources in Power Generation, Recycling and Reuse of Materials and Their Products, Volume 3 of the Advances in Materials Science book series, | CRC Press, Apple Academic Press, Inc., Taylor & Francis Group | Reddy, B.V., and Srinivas,T. | 978-1-926895-27-7 | 2013 |
| Book Chapter | Chapter 4: Design of Integrated R134a Vapor Compression Heating and Cooling Cycle, Emerging Trends in Science, Engineering and Technology, Lecture Notes in Mechanical Engineering | Springer India | Priyank agarwal, Shankar, R. and Srinivas, T | 978-81-322-1006-1 | 2012 |
| Book Chapter | Chapter 9, Integration of LiBr-H ₂ O Vapor Absorption Refrigeration Cycle and Power Cycle, Emerging Trends in Science, Engineering and Technology, Lecture Notes in Mechanical Engineering | Springer India | Shankar, R., and Srinivas,T. | 978-81-322-1006-1 | 2012 |
| Book Chapter | Chapter 7: The role of sustainable energy systems and energy management measures on global warming, Renewable Energy and Environment for Sustainable Development | Narosa Publishing House | Reddy, B.V., Gupta, A.V.S.S.K.S. and Srinivas,T. | 8173199930 | 2009 |

Research Projects :

| Role | Project Type | Title | Funding Agency | From | To | Amount | Status | Co-Investigator |
|------|--------------|-------|----------------|------|----|--------|--------|-----------------|
|------|--------------|-------|----------------|------|----|--------|--------|-----------------|

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|------------------------|------------------------|---|--|------------|------------|-----------------|-----------|----------------|
| Principal Investigator | Research and Equipment | Experimental study on Kalina cycle system | Science and Engineering Research Board (SERB), New Delhi, India | 14-06-2015 | 14-07-2017 | Rs. 34 lakhs | Completed | Dr.R.Natarajan |
| Principal Investigator | Research and Equipment | Development of tri-generation (power, cooling and desalination) plant by compressed air humidification and dehumidification | Council of Scientific and Industrial Research (CSIR), New Delhi, India | 01-04-2013 | 30-04-2015 | Rs. 17.23 Lakhs | Completed | Dr.R.Natarajan |

Events Organized :

| Category | Type | Title | Venue | From | To | Designation |
|---|---------------|---|----------------------------------|----------|----------|-------------|
| Conference | International | Trends and Advanced Research in Green Energy Technologies, ICTARGET-2017' | VIT University, Vellore, India | 30-03-17 | 31-03-17 | Convenor |
| Advances in Mechanical Engineering, Energy Systems and Sustainability (ICAMES – 2014) | International | | LNCT Group Institutions, Gwalior | 22-12-14 | 24-12-14 | Organizer |
| Workshop | International | Challenged and Prospects in Power Generation Systems Using Biomass | VIT Vellore | 27-07-12 | 28-07-12 | Convenor |

Professional Affiliations :

| Designation | Organization |
|-------------|---|
| Life Member | Indian Society for Heat and Mass Transfer (LMISHMT) - ISHMT |
| Member | Institution of Engineers, Kolkata (India) |
| Life Member | Indian Society for Technical Education, New Delhi (LMISTE) |

Research Supervised :

| Scholar Name | Research Topic | Status | Year | Co-Supervisor |
|--------------|----------------|--------|------|---------------|
|--------------|----------------|--------|------|---------------|

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|------------------|---|---------------------------|------|---|
| R.Shankar | Experimental studies on cooling co-generation systems | Ph.D. Thesis under Review | 2018 | - |
| G. Pradeep Varma | Thermodynamic studies on power augmentation with low and intermediate temperature heat recoveries | Ph.D. Awarded | 2017 | - |
| C.Chiranjeevi | Experimental and simulation studies on two stage air humidification-dehumidification desalination and cooling plant | Ph.D. Awarded | 2017 | - |
| M.Natarajan | Development and study on power free self-tracking mechanism for a linear focused solar concentrating collector | Ph.D. Awarded | 2017 | - |
| N. Sankar Ganesh | Thermodynamic optimization of Kalina cycle systems at low, medium and high temperature heat recoveries | Ph.D. Awarded | 2014 | - |

Patents :

| Name | Reg./Ref. No. | Date of Award/Filing | Organization | Status |
|---|---------------|----------------------|--------------|--------------------------------------|
| Trigeneration plant for power, desalination and power | 5029/CHE/2015 | 21-09-2015 | CSIR - VIT | application awaiting for examination |
| Combined cooling and power system | 2622/CHE/2011 | 29-07-2011 | VIT Vellore | awaiting for examination |
| Semi automatic tracking system applied to line concentrated single axis solar collector | 5030CHE/2015 | 21-09.2015 | VIT Vellore | awaiting for examination |

Award and Honours :

| Title | Activity | Given by | Year |
|-------------------------------------|---|---|------|
| Best Paper | Experimental Investigation on Cooling Cogeneration Plant, 4th International Conference on Bioenergy, Environmental and Sustainable Technologies, 28-30 January 2019. | Arunai Engineering College, Tiruvannamalai, India. | 2019 |
| Best Paper | International conference on Desalination (InDACON-2018), 'Combine Power, Cooling and Desalination using Concentrated Photovoltaic/Thermal System', 20th and 21st April 2018 | National Institute of Technology, Tiruchirapalli, India | 2018 |
| Outstanding scientist award (VIFRA) | Research | Venus International Foundation, Chennai. | 2015 |

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|------------|---|---|------|
| Best Paper | Integration of Solar Thermal Based Power and Cooling Cycle with 50:50 Power Mass Split Ratio, International Conference on Modeling Optimization and Computing 2014, April, 10-11, 2014 (ICMOC 2014) | NICHE, Kumaracoil, Thuckalay, South India | 2014 |
|------------|---|---|------|