Profile Page

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Research Interests :

Thermal Polygeneration, Hybrid Energy Systems, Motorless Solar Tracking, Conducting exergy scrutinizing, Industrial Waste Heat Recovery, Thermal Desalination, Solar Cooling, Advanced Combined Cycle Systems, and Kalina Plants.

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Journal Publications :

Year	Journal	Publication

2022	Journal of Energy Storage, 48, p.104059 (SCI, Q1, doi.org/10.1016/j.est.2022.104059) .	Kumar, R., Mitra, A. and Srinivas, T., Role of nano-additives in the thermal management of lithium-ion batteries: A review
2022	Heat Transfer (https://doi.org/10.1002/htj.22558).	Shaik, V.B. and Tangellapalli, S., Design and simulation of water?cooled dehumidifier for HDH desalination plant
2022	International Journal of Exergy, 37(1), pp.40-56 (SCI, Q2, doi:10.1504/IJEX.2022.120107 doi.org/10.1016/j.enconman.2021.114472).	Srinivas, T., Exergy analysis of a HDH-VCR cycle for water and air conditioning
2022	International Journal of Environment and Sustainable Development, 21(3), pp.270-284.	Shankar, R., Srinivas, T. and Franco, W.R.G., 2022. Experimental investigation on cooling cogeneration plant for low temperature waste heat recovery process
2022	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 44(3), pp.6281-6302.	Saxena, A. and Tangellapalli, S., 2022. Performance analysis of solar-powered integrated desalination and air conditioning system.
2021	IET Renewable Power Generation. (SCI, Q2, DOI: 10.1049/rpg2.12155)	Ganesh, N.S., Maheswari, G.U., Srinivas, T. and Reddy, B.V., Performance assessment of a novel power generation system
2021	Energy Conversion and Management, 244, p.114472 (SCI, Q1, https://doi.org/10.1016/j.enconman.2021.114472)	Tangellapalli, S., Humidification-dehumidification and heat pump integration for water purifier and air conditioning
2020.	Thermal Science and Engineering Progress, 20, p.100744.	Shankar, R., Srinivas, T., Anand, B., Murugavelh, S. and Rivera, W., Design and analysis of cooling co-generation cycle using aqua-ammonia as working fluid
2020	Advances in Energy Research, Vol. 1 (pp. 125-137). Springer, Singapore	Anand, B. and Srinivas, T., Cogeneration of Power and Desalination Using Concentrated Photovoltaic/Thermal Humidification and Dehumidification System
2020	Energy Reports, 6, pp.2697-2712.	Maheswari, G.U., Ganesh, N.S., Srinivas, T. and Reddy, B.V., Thermoeconomic investigation on advanced Kalina power generation system
2020	International Journal of Precision Engineering and Manufacturing-Green Technology, pp.1-24.	Ganesh, N.S., Maheswari, G.U., Srinivas, T. and Reddy, B.V., Exergoeconomic Analysis of a Novel Zeotropic Mixture Power System
2019	Progress in Industrial Ecology – An International Journal, 13(3), pp.280-291.	Chiranjeevi, C., Srinivas, T., Amrit Raj and Shankar R, Experimental investigation on a coconut coir packed humidifier for a solar desalination plant
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
2019	Energy and Environment, 30(7), 1190–1205, SAGE publications	Ganesh, N.S., Srinivas, T., Uma Maheswari, G., Mahendiran, S. and Manivannan D, Development of optimized energy system
2019	Desalination and Water Treatment, 156: 136–147	Anand, B., Shankar, R., Srinivas, T., Murugavelh, S., Performance analysis of combined two stage desalination and cooling plant with different solar collectors
2019	Desalination and Water Treatment, 156: 148-160.	Chiranjeevi, C. Srinivas, T. and Shankar R, Experimental investigation on a hybrid desalination and cooling unit using humidification-dehumidification technique
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.
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-NH3 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-H2O 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
2014	Desalination 345(15):56-63.	Chiranjeevi, C and Srinivas, T. Combined Two Stage Desalination and Cooling Plant
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,
2010	Sadhana - Academy Proceedings in Engineering Sciences 35 (5): 597-608, Springer Publications.	Srinivas. T. Thermodynamic modeling and optimization of a dual pressure reheat combined power cycle
2009	ASME Journal of Energy Resources Technology, 131(3):1-7.	Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. Thermodynamic equilibrium model and exergy analysis of a biomass gasifier
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

2008	Cogeneration and Distributed Generation Journal 23(1):6-20, The Association of Energy Engineers Press, Taylor & Francis Group.	Srinivas,T. Gupta, A.V.S.S.K.S. and Reddy, B.V. Performance simulation of combined cycle with Kalina bottoming cycle.
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
2022	Two-day International Conference on Net-zero Emission Technologies for Sustainable Development: Challenges and Opportunities (N0ET – 2022), IIT Dhanbad,	Srinivas, T., Rajan Kumar, Shivam Tiwari and Parmvir Singh, 2022, Geometrical design of a solar concentrating collector with a motorless tracking mechanism, December 12-13, 2022.
2022	International conference (RAiSE 2022)	Deepak Singh, Tangellapalli Srinivas and Rajeev Kukreja, 2022. Performance Investigation of the Ejector Humidification-Dehumidification Cycle for Fresh Water and Cooling Generation" I, 26-27 February, 2022, Shobhit University Gangoh Uttar Pradesh, India.
2021	Theoretical, Computational, and Experimental Solutions to Thermo-Fluid Systems: Select Proceedings of ICITFES 2020, p.275. Proceedings of the International Conference on Innovations in Thermo-Fluid Engineering and Sciences [ICITFES - 2020] NIT Rourkela, India, 10-12 February 2020).	Chiranjeevi, C., Sekhar, Y.R., Natarajan, M., Srinivas, T., Hashemian, M. and Aditya, V., Exergy Studies on a Hybrid Desalination and Cooling Plant
2020	National Webinar on Innovations in ODL for Quality Education-2020, National Centre for Innovation in Distance Education Indira Gandhi National Open University (IGNOU), New Delhi,14-15 October 2020,	Srinivas Tangellapalli, Subbarao Chamarthi and Akash Saxena, Assessment of Course Outcomes and Programme Outcomes using Computer Programming
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
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
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
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,
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
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
	8th International Conference on Advances in Energy Research (ICAER 2022)	S. Mishra, T. Srinivas, A. Trehan, P. Singh, 2022. Thermal analysis of multi reflector compound parabolic collector (MRCPC), 7-9. July, 2022. Indian Institute of Technology, Bombay.

Book/Chapter Publications :

Type	**Title**	**Publisher**	**Authors**	**ISBN/ISSN No.**	**Year**
Book	Thermal Polygeneration	Ane	Tangellapalli Srinivas	9789394883338	2023
Book Chapter	Concentrated Solar Flux Assessment of Water Lens Collector	In Innovations in Energy, Power and Thermal Engineering (pp. 23-29). Springer, Singapore	Natarajan, M., Sekhar, Y.R., Chiranjeevi, C., Srinivas, T. and Bicer, Y.	ISBN: 978-981-16-4489-4	2022
Book	Thermal Cycles of Heat Recovery Power Plants	Bentham Science Publishers	Tangellapalli Srinivas	978-981-18-0375-8	2021
Book Chapter	Humidification-Dehumidification Desalination Through Solar Water Heating System, Book: Solar Water Heating: Fundamentals and Applications	Nova Science Publishers, New York.	T. Srinivas	978-1-53619-320-6	2021
Book Chapter	Study of Solar Thermal Power Plant with Nanofluid	Nanotechnology Applications in Green Energy Systems, pp. 261-276, Nova Science Publishers, New York	Srinivas, T. and Rajan Kumar	978685074517	2021

Book Chapter	An Updated Review on the Performance Enhancement of Nanofluid-based Photovoltaic Thermal Systems	Nanotechnology Applications in Green Energy Systems, pp. 261-276, Nova Science Publishers, New York	Praveen Kumar Tyagi, Krishan Kumar, Rajan Kumar and Srinivas, T.	978685074517	2021
Edited Book	Advances in Clean Energy Technologies	Springer Publishers	Prashant V. Baredar, Srinivas Tangellapalli, and Chetan Singh Solanki (Editors) 2021. p: 1163, ISBN:	978-981-16-0234-4	2021
Edited Book	Nanotechnology Applications in Green Energy Systems	Nova Science Publishers, New York	Tangellapalli Srinivas and Rajan Kumar (Editors)	978685074517	2021
Book Chapter	Cogeneration of Power and Desalination Using Concentrated Photovoltaic/Thermal Humidification and Dehumidification System in Advances in Energy Research	Springer, Singapore.	Anand B and Srinivas T.	978-981-15-2665-7	2020
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-H2O 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
Principal Investigator	Research and Equipment	Experimental study on Kalina cycle system	Science and Engineering Research Board (SERB), New Delhi, India	14-06-2015	13-06-2017	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
Principal Investigator	Research	Experimental investigation on tower type hybrid vapour compression refrigeration (VCR) and humidification-dehumidification (HDH) desalination plant	Science and Engineering Research Board (SERB)	11-10-19	10-10-2021	20.20 Lakhs	Ongoing	Dr.Rajeev Kukreja

Principal Investigator	Research and Equipment	Concentrated Solar Air Heater with Passive Tracking Mechanism and Corrugated Receiver	Department of Science and Engineering (DST)	29-07-2021	28-07-2023	Rs. 18.42 Lakhs	Ongoing	Dr Rajan Kumar

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
Conference	International	Advances in Mechanical Engineering, Energy Systems and Sustainability (ICAMES – 2014)	LNCT Group Institutions, Gwalior	22-12-14	24-12-14	Organizing Chair
Workshop	International	Challenged and Prospects in Power Generation Systems Using Biomass	VIT Vellore	27-07-12	28-07-12	Convenor
Innovation Day	National	Innovation Day Companion	Dr.B.R. Ambedkar National Institute of Technology, Jalandhar	12-10-19	12-10.19	Coordinator
FDP	National	AICTE-ATAL 5-Day FDP on Challenges and Opportunities on Collection, Storage and Utilization of Solar Thermal Energy	Dr B R Ambedkar National Institute of Technology Jalandhar	19-10.2020	23.10.2020	Course Coordinator
Technical Event	National	Technovation-2021	Dr B R Ambedkar National Institute of Technology Jalandhar	06-03.2021	07.03.2021	Coordinator
STC	National	Training and Practice on MATLAB for Engineering Solutions	Dr B R Ambedkar National Institute of Technology Jalandhar	26-11.2020	30.11.2020	Coordinator
Workshop	National	IIC Orientation Programme by Innovation Ambassadors	Dr BR Ambedkar National Institute of Technology Jalandhar	19-06-2021	19-06-2021	Coordinator

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)

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
R.Shankar	Experimental studies on cooling co-generation systems	Ph.D. Awarded	2019	-
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	-

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Mr. Shivam Srivastava	Performance Analysis of Organic Flash Cycle with Waste Heat Recovery	Completed	2021	sole supervision
Mr. Shubham Kame	Performance Investigation of a Two-Stage Humidification Dehumidification Desalination System with Vapor Compression Refrigeration Cycle	Completed	2021	sole supervision
Mr.Harikrishna Menon	Novel integrated solar air-conditioning and humidification-dehumidification unit with heat recovery	Completed	2020	sole supervision

Patents :

Name	Reg./Ref. No.	Date of Award/Filling	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	09-02-2023	Vellore Institute of Technology	Granted
Semi automatic tracking system applied to line concentrated single axis solar collector	5030CHE/2015	21-09.2015	VIT Vellore	awaiting for examination
Integrated poly-generation system and method thereof,	202011002594	10-11-2020	Dr B R Ambedkar National Institute of Technology Jalandhar	Filed

Gravity-Assisted Hydraulic Operated Tracking Mechanism to Drive Solar Photovoltaic Module and Parabolic Trough Collector	202311002764	13-01.2023	Dr B R Ambedkar National Institute of Technology	Filed

Admin. Responsiblities :

Position Held	Organization	From	To
Coordinator of Institution's Innovation Council (IIC)	Dr.B R Ambedkar National Institute of Technology, Jalandhar	28-05-2019	30-09-19
Convenor of Institution's Innovation Council (IIC)	Dr.B R Ambedkar National Institute of Technology, Jalandhar	01-10-2019	04-04.2022
Member of Atal Community Innovation Centre (ACIC)	Dr.B R Ambedkar National Institute of Technology, Jalandhar	01-10-2019	Till Date
Associate Dean, Research and Consultancy	Dr B R Ambedkar National Institute of Technology Jalandhar	04.02.2021	Till Date
Vice President, Convenor of Institution's Innovation Council (IIC)	Dr B R Ambedkar National Institute of Technology	05.04.2022	Till date

Award and Honours :

Title	Activity	Given by	Year
Beat Teacher	Teaching	Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab.	2020-2021
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
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