Sudip Ghosh

List of Publications by Year
in descending order

64 papers	1,326 citations	411340 20 h-index	388640 36 g-index
66 all docs	66 docs citations	66 times ranked	1288 citing authors

#	Article	IF	Citations
1	Bio-Waste Fired Gas Turbine and Transcritical Co2 Cycle Based Combined Power Plant: Thermodynamic, Economic and Environmental Performance Assessment. Lecture Notes in Mechanical Engineering, 2022, , 287-301.	0.3	0
2	Municipal solid waste fired combined cycle plant: Techno-economic performance optimization using response surface methodology. Energy Conversion and Management, 2021, 237, 114133.	4.4	17
3	A generic inputâ€“output approach in developing and optimizing an Aspen plus steam-gasification model for biomass. Bioresource Technology, 2021, 337, 125412.	4.8	33
4	Thermo-economic and Environmental Analyses of Full Site Repowering Through Coal Gasification and Carbon Capture by Downstream MCFC Integration. Lecture Notes in Mechanical Engineering, 2021, , 67-81.	0.3	2
5	Performance Assessment of a Steam Gasification-Based Hybrid Cogeneration System. Lecture Notes in Mechanical Engineering, 2021, , 297-306.	0.3	0
6	Thermo-economic assessment of a hybrid tri-generation system making simultaneous use of biomass and solar energy. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	2
7	Performance enhancement of a biomass-fuelled GT based integrated power and cooling plant by inlet air cooling. AIP Conference Proceedings, 2020, , .	0.3	0
8	Process modeling and optimization for biomass steam-gasification employing response surface methodology. Biomass and Bioenergy, 2020, 143, 105847.	2.9	46
9	Performance optimization through response surface methodology of an integrated biomass gasification based combined heat and power plant employing solid oxide fuel cell and externally fired gas turbine. Energy Conversion and Management, 2020, 222, 113182.	4.4	58
10	Techno-economic assessment of a biomass-based combined power and cooling plant for rural application. Clean Technologies and Environmental Policy, 2020, 22, 907-922.	2.1	10
11	Performance assessment of a biomass-fuelled distributed hybrid energy system integrating molten carbonate fuel cell, externally fired gas turbine and supercritical carbon dioxide cycle. Energy Conversion and Management, 2020, 211, 112740.	4.4	55
12	Comparative Energetic and Exergetic Assessment of Different Cooling Systems in Vegetable Cold Storage Applications. Journal of the Institution of Engineers (India): Series C, 2020, 101, 643-650.	0.7	3
13	Performance assessment of a biomass fuelled advanced hybrid power generation system. Renewable Energy, 2020, 162, 639-661.	4.3	28
14	Techno-economic analysis of biomass-fuelled indirectly-heated combined cogeneration plant for power and cooling. AIP Conference Proceedings, 2020, , .	0.3	0
15	Integration of solar charged PCM storage with VAR system for low capacity vegetable cold storage. Journal of Physics: Conference Series, 2019, 1240, 012070.	0.3	8
16	Proton conducting reversible SOFC integrated in a solar thermal power generation system. Journal of Physics: Conference Series, 2019, 1240, 012112.	0.3	2
17	Thermo-economic assessment of biomass gasification-based power generation system consists of solid oxide fuel cell, supercritical carbon dioxide cycle and indirectly heated air turbine. Clean Technologies and Environmental Policy, 2019, 21, 827-845.	2.1	26
18	Energetic, exergetic and economic (3E) investigation of biomass gasification-based power generation system employing molten carbonate fuel cell (MCFC), indirectly heated air turbine and an organic Rankine cycle. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	14

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19	Energetic and Exergetic Analyses of a Solid Oxide Fuel Cell (SOFC) Module Coupled with an Organic Rankine Cycle. Lecture Notes in Mechanical Engineering, 2019, , 13-24.	0.3	1
20	Techno-economic and environmental analyses of a biomass based system employing solid oxide fuel cell, externally fired gas turbine and organic Rankine cycle. Journal of Cleaner Production, 2019, 225, 36-57.	4.6	89
21	Aluminaâ€“silica glassâ€“ceramic sealants for tubular solid oxide fuel cells. Journal of Materials Science, 2019, 54, 4532-4545.	1.7	14
22	Combined energetic and exergetic assessment of a biomass-based integrated power and refrigeration plant. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	17
23	Gas Cleaning and Tar Conversion in Biomass Gasification. Energy, Environment, and Sustainability, 2018, , 151-172.	0.6	1
24	Integrated Biomass Gasification Combined Cycle Plant for Small Scale Generation: Part B- Exergetic and Exergo-economic Analyses. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012055.	0.3	1
25	High Performance Biosensor Based on RGO/ZnO Thin Film Transistor. , 2018, , .		3
26	Feasibility study of a biomass gasification based combined power and cooling plant for an off-grid village. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012003.	0.3	5
27	Reversible Solid Oxide Fuel Cell Connected to Solar PV/T System: Cell Electrochemical Modelling and Analysis. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012077.	0.3	4
28	Enhancement of natural ventilation of a circular greenhouse with double wall solar chimney. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012205.	0.3	1
29	Thermodynamic analysis of a biomass based solid oxide fuel cell integrated advanced power generation system. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012210.	0.3	3
30	Exergo-economic analysis of a 1-MW biomass-based combined cycle plant with externally fired gas turbine cycle and supercritical organic Rankine cycle. Clean Technologies and Environmental Policy, 2017, 19, 1475-1486.	2.1	31
31	Energy and exergy analyses of an integrated biomass gasification combined cycle employing solid oxide fuel cell and organic Rankine cycle. Clean Technologies and Environmental Policy, 2017, 19, 1693-1709.	2.1	24
32	Charged gravastars in higher dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 380-385.	1.5	52
33	Techno-economic assessment of a repowering scheme for a coal fired power plant through upstream integration of SOFC and downstream integration of MCFC. International Journal of Greenhouse Gas Control, 2017, 64, 234-245.	2.3	34
34	Compact star in pseudo-spheroidal spacetime. Astrophysics and Space Science, 2017, 362, 1.	0.5	7
35	Techno-economic performance evaluation of a direct biomass-fired combined cycle plant employing air turbine. Clean Technologies and Environmental Policy, 2017, 19, 427-436.	2.1	15
36	Thermodynamic assessment of TEG-ORC combined cycle powered by solar energy. International Journal of Renewable Energy Technology, 2017, 8, 346.	0.2	2

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37	Comparative energetic and exergetic studies of vapour compression and vapour absorption refrigeration cycles. International Journal of Renewable Energy Technology, 2017, 8, 222.	0.2	8
38	Performance Study of a Floricultural Greenhouse Surrounded by Shallow Water Ponds. International Journal of Renewable Energy Development, 2017, 6, 137-144.	1.2	3
39	Comparative energetic and exergetic studies of vapour compression and vapour absorption refrigeration cycles. International Journal of Renewable Energy Technology, 2017, 8, 222.	0.2	3
40	Externally fired biomass gasification-based combined cycle plant: exergo-economic analysis. International Journal of Exergy, 2016, 20, 496.	0.2	9
41	A thermo-economic analysis of repowering of a 250 MW coal fired power plant through integration of Molten Carbonate Fuel Cell with carbon capture. International Journal of Greenhouse Gas Control, 2016, 51, 48-55.	2.3	45
42	Simulated performance of biomass gasification based combined power and refrigeration plant for community scale application. AIP Conference Proceedings, 2016, , .	0.3	4
43	A techno-economic analysis of partial repowering of a 210 MW coal fired power plant. Advances in Energy Research, 2015, 3, 167-179.	0.4	8
44	Energetic and Environmental Analysis of Partial Repowering of a Coal Fired Power Plant Through Upstream GT Integration and Employing Waste Heated Feed Water Heaters. , 2014, , .		2
45	Energetic and Exergetic Performance Analyses of Solar Dish Based CO2 Combined Cycle. International Journal of Thermodynamics, 2014, 17, 97-105.	0.4	1
46	Gasification of biomass in a fixed bed downdraft gasifier â€“ A realistic model including tar. Bioresource Technology, 2012, 107, 505-511.	4.8	157
47	Performance Analysis of Solar PV-Fuel Cell Integrated Floriculture Greenhouse. , 2011, , .		0
48	Biomass integrated gasification fuel cell systemsâ€“Concept development and experimental results. Biomass and Bioenergy, 2011, 35, 354-362.	2.9	52
49	Performance Analysis of a Floriculture Greenhouse Powered by Integrated Solar Photovoltaic Fuel Cell System. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.1	6
50	Modeling and analysis of solar photovoltaic-electrolyzer-fuel cell hybrid power system integrated with a floriculture greenhouse. Energy and Buildings, 2010, 42, 2036-2043.	3.1	120
51	Mechanics of SFRC under tension, part I: analytical study. Magazine of Concrete Research, 2010, 62, 655-664.	0.9	3
52	Modeling and Analysis of Solar PV Power System for Greenhouse Application With Electrolyser Fuel Cell Back Up. , 2009, , .		0
53	Simulated Performance Studies of SOFC-GT Hybrid CHP Systems Fuelled by Biomass-Derived Producer Gas. , 2009, , .		0
54	Model development and experimental validation of a floriculture greenhouse under natural ventilation. Energy and Buildings, 2009, 41, 521-527.	3.1	44

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55	Influence of light waves on the thermoelectric power under large magnetic field in III-V, ternary and quaternary materials. Annalen Der Physik, 2008, 17, 195-220.	0.9	15
56	New Generation Metal Matrix Composites. Materials and Manufacturing Processes, 2007, 22, 679-682.	2.7	48
57	Processing of In Situ Aluminium Matrix Composites by Micropyretic Reactive Sintering. Materials and Manufacturing Processes, 2007, 22, 692-695.	2.7	4
58	Effect of Hot Rolling on the Properties of In Situ Ti-Aluminide and Alumina-Reinforced Aluminum Matrix Composite. Materials and Manufacturing Processes, 2007, 22, 683-686.	2.7	5
59	Modeling and analysis of a fanâ€“pad ventilated floricultural greenhouse. Energy and Buildings, 2007, 39, 1092-1097.	3.1	44
60	Energy analysis of a cogeneration plant using coal gasification and solid oxide fuel cell. Energy, 2006, 31, 345-363.	4.5	70
61	Exergy analysis of a cogeneration plant using coal gasification and solid oxide fuel cell. International Journal of Energy Research, 2006, 30, 647-658.	2.2	19
62	First and second law performance variations of a coal gasification fuel-cell-based combined cogeneration plant with varying load. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2004, 218, 477-485.	0.8	13
63	Thermodynamic performance study of an integrated gasification fuel cell combined cycleâ€”an energy analysis. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2003, 217, 137-147.	0.8	27
64	Thermodynamic performance study of an integrated gasification fuel cell combined cycle: An energy analysis. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2003, 217, 575-581.	0.8	4