

Tahir A H Ratlamwala

List of Publications by Year in descending order

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96
papers

1,672
citations

236925

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345221

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1019
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation and modeling of copper-chlorine cycle, molten carbonate fuel cell alongside a heat recovery system named regenerative steam cycle and electric heater with the incorporation of PID controller in MATLAB/SIMULINK. International Journal of Hydrogen Energy, 2022, 47, 40462-40475.	7.1	4
2	Aerodynamic Analyses of Airfoils Using Machine Learning as an Alternative to RANS Simulation. Applied Sciences (Switzerland), 2022, 12, 5194.	2.5	8
3	Energy, exergy, exergo-economic and exergo-environmental analyses of solar based hydrogen generation system. International Journal of Hydrogen Energy, 2021, 46, 29049-29064.	7.1	23
4	Thermal analysis of multigeneration system using geothermal energy as its main power source. International Journal of Hydrogen Energy, 2021, 46, 4724-4738.	7.1	35
5	Performance analysis of compressor-assisted two-stage triple effect absorption refrigeration cycle for power and cooling. Energy Conversion and Management, 2021, 227, 113547.	9.2	10
6	Thermal and thermodynamic comparison of smooth and convergent-divergent parabolic trough absorber tubes with the application of mono and hybrid nanofluids. International Journal of Energy Research, 2021, 45, 4543-4564.	4.5	18
7	Performance assessment of a solar tower assisted combined cycle power plant using supercritical carbon dioxide as a heat transfer fluid. International Journal of Exergy, 2021, 36, 30.	0.4	3
8	Power prediction of waste heat recovery system for a cement plant using back propagation neural network and its thermodynamic modeling. International Journal of Energy Research, 2021, 45, 9162-9178.	4.5	7
9	Tool Health Monitoring Using Airborne Acoustic Emission and Convolutional Neural Networks: A Deep Learning Approach. Applied Sciences (Switzerland), 2021, 11, 2734.	2.5	5
10	Thermodynamic analysis and comparison of different absorption cycles driven by evacuated tube solar collector utilizing hybrid nanofluids. Energy Conversion and Management, 2021, 246, 114673.	9.2	52
11	Life Cycle Assessment and Feasibility Study of Solar Based Multi- Generation System. Sustainable Energy Technologies and Assessments, 2021, 47, 101321.	2.7	0
12	Modeling and Simulation of a Proton Exchange Membrane Fuel Cell Alongside a Waste Heat Recovery System Based on the Organic Rankine Cycle in MATLAB/SIMULINK Environment. Sustainability, 2021, 13, 1218.	3.2	19
13	Failure classification in natural gas pipe-lines using artificial intelligence: A case study. Energy Reports, 2021, 7, 7640-7647.	5.1	13
14	Thermo-environmental analysis and performance comparison of solar assisted single to multi-generation systems. International Journal of Exergy, 2021, 36, 243.	0.4	0
15	Comparative energy, exergy and exergo-economic analysis of solar driven supercritical carbon dioxide power and hydrogen generation cycle. International Journal of Hydrogen Energy, 2020, 45, 5653-5667.	7.1	37
16	Geothermal and solar based multigenerational system: A comparative analysis. International Journal of Hydrogen Energy, 2020, 45, 5636-5652.	7.1	26
17	Energy and exergy analyses of the solar assisted multigeneration system with thermal energy storage system. Energy Storage, 2020, 2, e106.	4.3	7
18	Thermo-environ study of a concentrated photovoltaic thermal system integrated with Kalina cycle for multigeneration and hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 26716-26732.	7.1	42

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19	Techno-Economic Analysis of Glazed, Unglazed and Evacuated Tube Solar Water Heaters. <i>Energies</i> , 2020, 13, 6261.	3.1	5
20	Impact of Sloshing on Fossil Fuel Loss during Transport. <i>Energies</i> , 2020, 13, 2625.	3.1	3
21	Thermo-environmental investigation of solar parabolic dish-assisted multi-generation plant using different working fluids. <i>International Journal of Energy Research</i> , 2020, 44, 12376-12394.	4.5	9
22	Entropy Generation Minimization in a Parabolic Trough Collector Operating With SiO ₂ -Water Nanofluids Using the Genetic Algorithm and Artificial Neural Network. <i>Journal of Thermal Science and Engineering Applications</i> , 2020, 12, .	1.5	23
23	Performance evaluation of compressor assisted multi-effect absorption refrigeration cycles for power and cooling using evacuated tube collectors. <i>International Journal of Exergy</i> , 2020, 32, 227.	0.4	0
24	Olive Leaf-Synthesized Nanofluids for Solar Parabolic Trough Collector Thermal Performance Evaluation. <i>Journal of Thermal Science and Engineering Applications</i> , 2019, 11, .	1.5	12
25	Energy, exergy, exergoeconomic, and exergoenvironmental study of a parabolic trough collector using a converging-diverging receiver tube. <i>International Journal of Exergy</i> , 2019, 29, 131.	0.4	8
26	Thermodynamic Performance Evaluation of a Solar Parabolic Dish Assisted Multigeneration System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.8	13
27	Thermodynamic analysis of energy storage supported multigeneration system. <i>Energy Storage</i> , 2019, 1, e33.	4.3	15
28	Geothermal and solar energy-based multigeneration system for a district. <i>International Journal of Energy Research</i> , 2019, 43, 5230-5251.	4.5	20
29	Comparative Study of Heat Transfer Enhancement in Parabolic Trough Collector Based on Modified Absorber Geometry. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, .	1.9	20
30	Municipal solid waste based multigeneration system for different districts of Karachi. <i>International Journal of Exergy</i> , 2019, 29, 300.	0.4	4
31	Geothermal and solar energy amalgamated multigeneration system escorting diverse needs of a district. <i>International Journal of Exergy</i> , 2019, 29, 318.	0.4	9
32	Optimal Analysis of Entropy Generation and Heat Transfer in Parabolic Trough Collector Using Green-Synthesized TiO ₂ /Water Nanofluids. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.8	15
33	Energy, Exergy and Economic Feasibility Analyses of a 60MW Conventional Steam Power Plant Integrated with Parabolic Trough Solar Collectors Using Nanofluids. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019, 43, 193-209.	1.3	14
34	Geothermal and solar energy amalgamated multigeneration system escorting diverse needs of a district. <i>International Journal of Exergy</i> , 2019, 29, 318.	0.4	1
35	Municipal solid waste based multigeneration system for different districts of Karachi. <i>International Journal of Exergy</i> , 2019, 29, 300.	0.4	0
36	Energy, exergy, exergoeconomic, and exergoenvironmental study of a parabolic trough collector using a converging-diverging receiver tube. <i>International Journal of Exergy</i> , 2019, 29, 131.	0.4	2

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37	Energy and exergy analyses of hybrid photocatalytic hydrogen production reactor for Cu Cl cycle. International Journal of Hydrogen Energy, 2018, 43, 4167-4176.	7.1	3
38	Performance analysis of solar assisted multi-effect absorption cooling systems using nanofluids: A comparative analysis. International Journal of Energy Research, 2018, 42, 2901-2915.	4.5	29
39	Second-Law Analysis and Exergoeconomics Optimization of a Solar Tower-Driven Combined-Cycle Power Plant Using Supercritical CO ₂ . Journal of Energy Engineering - ASCE, 2018, 144, .	1.9	20
40	Development of a New Heliostat Field-Based Integrated Solar Energy System for Cogeneration. Arabian Journal for Science and Engineering, 2018, 43, 1267-1277.	3.0	8
41	Techno-environmental analysis of a parabolic dish assisted recompression with and without reheat s-CO ₂ Brayton cycle. International Journal of Exergy, 2018, 27, 527.	0.4	7
42	Thermal performance analysis of a parabolic trough collector using water-based green-synthesized nanofluids. Solar Energy, 2018, 170, 658-670.	6.1	72
43	Numerical Analysis of Heat Transfer Enhancement in a Parabolic Trough Collector Based on Geometry Modifications and Working Fluid Usage. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.8	54
44	Effects of synthetic oil nanofluids and absorber geometries on the exergetic performance of the parabolic trough collector. International Journal of Energy Research, 2018, 42, 3559-3574.	4.5	30
45	5.23 Energy Management in District Energy Systems. , 2018, , 868-895.		0
46	5.25 Concluding Remarks. , 2018, , 927-934.		0
47	5.8 Sustainable Energy Management. , 2018, , 315-350.		4
48	Energy, Exergy, and Exergoenvironmental Assessments of Solar-Assisted Absorption Cooling Systems and Conventional Air-Conditioning System: A Comparative Study. , 2018, , 435-455.		1
49	Techno-environmental analysis of a parabolic dish assisted recompression with and without reheat s-CO ₂ Brayton cycle. International Journal of Exergy, 2018, 27, 527.	0.4	0
50	Electrochemical, Energy, Exergy, and Exergoeconomic Analyses of Hybrid Photocatalytic Hydrogen Production Reactor for Cu-Cl Cycle. Green Energy and Technology, 2018, , 687-704.	0.6	0
51	Solar assisted multi-generation system using nanofluids: A comparative analysis. International Journal of Hydrogen Energy, 2017, 42, 21429-21442.	7.1	50
52	Dynamic analysis of a thermoelectric heating system for space heating in a continuous-occupancy office room. Applied Thermal Engineering, 2017, 113, 150-159.	6.0	22
53	Performance Assessment of a Multi-Generation System Based on Organic Rankine Cycle. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2017, 41, 225-232.	1.3	14
54	Energy, Exergy, Economic and Environmental analysis of Photovoltaic Thermal Systems for Absorption Cooling Application. Energy Procedia, 2017, 142, 916-923.	1.8	9

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55	Comparative exergo-environmental assessments of solar-based hydrogen production systems. International Journal of Global Warming, 2016, 10, 373.	0.5	0
56	Performance assessment of parabolic dish and parabolic trough solar thermal power plant using nanofluids and molten salts. International Journal of Energy Research, 2016, 40, 550-563.	4.5	68
57	Developments in Absorption Refrigeration Systems. Green Energy and Technology, 2016, , 241-257.	0.6	9
58	Integrated Absorption Refrigeration Systems. Green Energy and Technology, 2016, , .	0.6	12
59	Fundamentals of Absorption Refrigeration Systems. Green Energy and Technology, 2016, , 1-25.	0.6	1
60	Thermodynamic Analysis. Green Energy and Technology, 2016, , 27-46.	0.6	0
61	Double Effect Absorption Refrigeration System. Green Energy and Technology, 2016, , 71-105.	0.6	0
62	Triple Effect Absorption Refrigeration System. Green Energy and Technology, 2016, , 107-148.	0.6	0
63	Quadruple Effect Absorption Refrigeration System. Green Energy and Technology, 2016, , 149-196.	0.6	0
64	Integrated Absorption Refrigeration Systems: Case Studies. Green Energy and Technology, 2016, , 197-239.	0.6	2
65	Experimental study of a hybrid photo-electrocatalytic hydrogen production reactor. International Journal of Hydrogen Energy, 2016, 41, 7904-7918.	7.1	2
66	Comparative exergo-environmental assessments of solar-based hydrogen production systems. International Journal of Global Warming, 2016, 10, 373.	0.5	0
67	Transient Energy and Exergy Analyses of a Solar Based Integrated System. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	15
68	Comparative energy and exergy analyses of two solar-based integrated hydrogen production systems. International Journal of Hydrogen Energy, 2015, 40, 7568-7578.	7.1	45
69	Experimental study of a hybrid photocatalytic hydrogen production reactor for Cuâ€“Cl cycle. International Journal of Hydrogen Energy, 2014, 39, 20744-20753.	7.1	11
70	Energetic and exergetic investigation of novel multi-flash geothermal systems integrated with electrolyzers. Journal of Power Sources, 2014, 254, 306-315.	7.8	14
71	Energy and Exergy Analyses of an Integrated Solar Based Hydrogen Production and Liquefaction System. , 2014, , 99-110.		0
72	Performance assessment of an integrated absorption cooling-hydrogen liquefaction system using geothermal energy. International Journal of Exergy, 2013, 12, 205.	0.4	9

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73	Energy and exergy analyses of an integrated solar-based desalination quadruple effect absorption system for freshwater and cooling production. <i>International Journal of Energy Research</i> , 2013, 37, 1569-1579.	4.5	17
74	Development of novel renewable energy based hydrogen production systems: A comparative study. <i>Energy Conversion and Management</i> , 2013, 72, 77-87.	9.2	52
75	Development of a geothermal based integrated system for building multigenerational needs. <i>Energy and Buildings</i> , 2013, 62, 496-506.	6.7	28
76	Performance assessment of solar-based integrated Cu-Cl systems for hydrogen production. <i>Solar Energy</i> , 2013, 95, 345-356.	6.1	32
77	Performance analysis and evaluation of a triple-effect ammonia-water absorption-refrigeration system. <i>International Journal of Energy Research</i> , 2013, 37, 475-483.	4.5	17
78	Efficiency assessment of key psychometric processes. <i>International Journal of Refrigeration</i> , 2013, 36, 1142-1153.	3.4	17
79	Importance of exergy for analysis, improvement, design, and assessment. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2013, 2, 335-349.	4.1	39
80	Comparative efficiency assessment of a multi-flash integrated system based on three efficiency definitions. <i>International Journal of Low-Carbon Technologies</i> , 2013, 8, 238-244.	2.6	3
81	Exergetic and Environmental Impact Assessment of an Integrated System for Utilization of Excess Power from Thermal Power Plant. , 2013, , 803-824.		11
82	Energy and exergy analyses of a Cu-Cl cycle based integrated system for hydrogen production. <i>Chemical Engineering Science</i> , 2012, 84, 564-573.	3.8	25
83	Energy and exergy analyses of integrated hybrid sulfur isobutane system for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18050-18060.	7.1	11
84	Thermodynamic analysis of a new renewable energy based hybrid system for hydrogen liquefaction. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18108-18117.	7.1	32
85	Energy and exergy analyses and optimization study of an integrated solar heliostat field system for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18704-18712.	7.1	42
86	Comparative efficiency assessment of novel multi-flash integrated geothermal systems for power and hydrogen production. <i>Applied Thermal Engineering</i> , 2012, 48, 359-366.	6.0	52
87	Performance analysis of a new designed PEM fuel cell. <i>International Journal of Energy Research</i> , 2012, 36, 1121-1132.	4.5	34
88	Thermodynamic analysis of a novel integrated geothermal based power generation-quadruple effect absorption cooling-hydrogen liquefaction system. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5840-5849.	7.1	38
89	Performance analysis of a novel integrated geothermal-based system for multi-generation applications. <i>Applied Thermal Engineering</i> , 2012, 40, 71-79.	6.0	62
90	Thermodynamic analyses of an integrated PEMFC-TEARS-geothermal system for sustainable buildings. <i>Energy and Buildings</i> , 2012, 44, 73-80.	6.7	26

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91	Thermodynamic analysis of an integrated geothermal based quadruple effect absorption system for multigenerational purposes. Thermochimica Acta, 2012, 535, 27-35.	2.7	24
92	Performance assessment of an integrated PV/T and triple effect cooling system for hydrogen and cooling production. International Journal of Hydrogen Energy, 2011, 36, 11282-11291.	7.1	60
93	Performance Assessment of a Combined PEM Fuel Cell and Triple Effect Absorption Cooling System for Cogeneration Applications. Fuel Cells, 2011, 11, 413-423.	2.4	18
94	Evaluation of a Triple Effect Absorption Air Conditioning System Integrated With PEM Fuel Cell. , 2010, , .		4
95	Energy and exergy analyses of an integrated fuel cell and absorption cooling system. International Journal of Exergy, 2010, 7, 731.	0.4	32
96	Performance analysis of a newly designed PEM fuel cell. , 2010, , .		0