

# Tahir A H Ratlamwala

## List of Publications by Year in descending order

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96  
papers

1,672  
citations

236925

25  
h-index

345221

36  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal performance analysis of a parabolic trough collector using water-based green-synthesized nanofluids. <i>Solar Energy</i> , 2018, 170, 658-670.	6.1	72
2	Performance assessment of parabolic dish and parabolic trough solar thermal power plant using nanofluids and molten salts. <i>International Journal of Energy Research</i> , 2016, 40, 550-563.	4.5	68
3	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
4	Performance assessment of an integrated PV/T and triple effect cooling system for hydrogen and cooling production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11282-11291.	7.1	60
5	Numerical Analysis of Heat Transfer Enhancement in a Parabolic Trough Collector Based on Geometry Modifications and Working Fluid Usage. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018, 140, .	1.8	54
6	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
7	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
8	Thermodynamic analysis and comparison of different absorption cycles driven by evacuated tube solar collector utilizing hybrid nanofluids. <i>Energy Conversion and Management</i> , 2021, 246, 114673.	9.2	52
9	Solar assisted multi-generation system using nanofluids: A comparative analysis. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21429-21442.	7.1	50
10	Comparative energy and exergy analyses of two solar-based integrated hydrogen production systems. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7568-7578.	7.1	45
11	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
12	Thermo-environ study of a concentrated photovoltaic thermal system integrated with Kalina cycle for multigeneration and hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26716-26732.	7.1	42
13	Importance of exergy for analysis, improvement, design, and assessment. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2013, 2, 335-349.	4.1	39
14	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
15	Comparative energy, exergy and exergo-economic analysis of solar driven supercritical carbon dioxide power and hydrogen generation cycle. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5653-5667.	7.1	37
16	Thermal analysis of multigeneration system using geothermal energy as its main power source. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4724-4738.	7.1	35
17	Performance analysis of a new designed PEM fuel cell. <i>International Journal of Energy Research</i> , 2012, 36, 1121-1132.	4.5	34
18	Energy and exergy analyses of an integrated fuel cell and absorption cooling system. <i>International Journal of Exergy</i> , 2010, 7, 731.	0.4	32

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19	Thermodynamic analysis of a new renewable energy based hybrid system for hydrogen liquefaction. International Journal of Hydrogen Energy, 2012, 37, 18108-18117.	7.1	32
20	Performance assessment of solar-based integrated Cu-Cl systems for hydrogen production. Solar Energy, 2013, 95, 345-356.	6.1	32
21	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
22	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
23	Development of a geothermal based integrated system for building multigenerational needs. Energy and Buildings, 2013, 62, 496-506.	6.7	28
24	Thermodynamic analyses of an integrated PEMFC-TEARS-geothermal system for sustainable buildings. Energy and Buildings, 2012, 44, 73-80.	6.7	26
25	Geothermal and solar based mutligenerational system: A comparative analysis. International Journal of Hydrogen Energy, 2020, 45, 5636-5652.	7.1	26
26	Energy and exergy analyses of a Cu-Cl cycle based integrated system for hydrogen production. Chemical Engineering Science, 2012, 84, 564-573.	3.8	25
27	Thermodynamic analysis of an integrated geothermal based quadruple effect absorption system for multigenerational purposes. Thermochimica Acta, 2012, 535, 27-35.	2.7	24
28	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
29	Entropy Generation Minimization in a Parabolic Trough Collector Operating With SiO <sub>2</sub> -Water Nanofluids Using the Genetic Algorithm and Artificial Neural Network. Journal of Thermal Science and Engineering Applications, 2020, 12, .	1.5	23
30	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
31	Second-Law Analysis and Exergoeconomics Optimization of a Solar Tower-Driven Combined-Cycle Power Plant Using Supercritical CO <sub>2</sub> . Journal of Energy Engineering - ASCE, 2018, 144, .	1.9	20
32	Geothermal and solar energy-based multigeneration system for a district. International Journal of Energy Research, 2019, 43, 5230-5251.	4.5	20
33	Comparative Study of Heat Transfer Enhancement in Parabolic Trough Collector Based on Modified Absorber Geometry. Journal of Energy Engineering - ASCE, 2019, 145, .	1.9	20
34	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
35	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
36	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

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37	Energy and exergy analyses of an integrated solar-based desalination quadruple effect absorption system for freshwater and cooling production. International Journal of Energy Research, 2013, 37, 1569-1579.	4.5	17
38	Performance analysis and evaluation of a triple-effect ammonia-water absorption-refrigeration system. International Journal of Energy Research, 2013, 37, 475-483.	4.5	17
39	Efficiency assessment of key psychometric processes. International Journal of Refrigeration, 2013, 36, 1142-1153.	3.4	17
40	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
41	Thermodynamic analysis of energy storage supported multigeneration system. Energy Storage, 2019, 1, e33.	4.3	15
42	Optimal Analysis of Entropy Generation and Heat Transfer in Parabolic Trough Collector Using Green-Synthesized TiO <sub>2</sub> /Water Nanofluids. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, .	1.8	15
43	Energetic and exergetic investigation of novel multi-flash geothermal systems integrated with electrolyzers. Journal of Power Sources, 2014, 254, 306-315.	7.8	14
44	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
45	Energy, Exergy and Economic Feasibility Analyses of a 60MW Conventional Steam Power Plant Integrated with Parabolic Trough Solar Collectors Using Nanofluids. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 193-209.	1.3	14
46	Thermodynamic Performance Evaluation of a Solar Parabolic Dish Assisted Multigeneration System. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, .	1.8	13
47	Failure classification in natural gas pipe-lines using artificial intelligence: A case study. Energy Reports, 2021, 7, 7640-7647.	5.1	13
48	Integrated Absorption Refrigeration Systems. Green Energy and Technology, 2016, , .	0.6	12
49	Olive Leaf-Synthesized Nanofluids for Solar Parabolic Trough Collector Thermal Performance Evaluation. Journal of Thermal Science and Engineering Applications, 2019, 11, .	1.5	12
50	Energy and exergy analyses of integrated hybrid sulfur isobutane system for hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 18050-18060.	7.1	11
51	Experimental study of a hybrid photocatalytic hydrogen production reactor for Cu-Cl cycle. International Journal of Hydrogen Energy, 2014, 39, 20744-20753.	7.1	11
52	Exergetic and Environmental Impact Assessment of an Integrated System for Utilization of Excess Power from Thermal Power Plant. , 2013, , 803-824.		11
53	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
54	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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55	Developments in Absorption Refrigeration Systems. <i>Green Energy and Technology</i> , 2016, , 241-257.	0.6	9
56	Energy, Exergy, Economic and Environmental analysis of Photovoltaic Thermal Systems for Absorption Cooling Application. <i>Energy Procedia</i> , 2017, 142, 916-923.	1.8	9
57	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
58	Thermoâ€environmental investigation of solar parabolic dishâ€assisted multiâ€generation plant using different working fluids. <i>International Journal of Energy Research</i> , 2020, 44, 12376-12394.	4.5	9
59	Development of a New Heliostat Field-Based Integrated Solar Energy System for Cogeneration. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 1267-1277.	3.0	8
60	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
61	Aerodynamic Analyses of Airfoils Using Machine Learning as an Alternative to RANS Simulation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5194.	2.5	8
62	Techno-environmental analysis of a parabolic dish assisted recompression with and without reheat s-CO&lt;SUB align="right"&gt;2 Brayton cycle. <i>International Journal of Exergy</i> , 2018, 27, 527.	0.4	7
63	Energy and exergy analyses of the solar assisted multigeneration system with thermal energy storage system. <i>Energy Storage</i> , 2020, 2, e106.	4.3	7
64	Power prediction of waste heat recovery system for a cement plant using back propagation neural network and its thermodynamic modeling. <i>International Journal of Energy Research</i> , 2021, 45, 9162-9178.	4.5	7
65	Techno-Economic Analysis of Glazed, Unglazed and Evacuated Tube Solar Water Heaters. <i>Energies</i> , 2020, 13, 6261.	3.1	5
66	Tool Health Monitoring Using Airborne Acoustic Emission and Convolutional Neural Networks: A Deep Learning Approach. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2734.	2.5	5
67	Evaluation of a Triple Effect Absorption Air Conditioning System Integrated With PEM Fuel Cell. , 2010, , .		4
68	5.8 Sustainable Energy Management. , 2018, , 315-350.		4
69	Municipal solid waste based multigeneration system for different districts of Karachi. <i>International Journal of Exergy</i> , 2019, 29, 300.	0.4	4
70	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. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40462-40475.	7.1	4
71	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
72	Energy and exergy analyses of hybrid photocatalytic hydrogen production reactor for Cu Cl cycle. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4167-4176.	7.1	3

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73	Impact of Sloshing on Fossil Fuel Loss during Transport. <i>Energies</i> , 2020, 13, 2625.	3.1	3
74	Performance assessment of a solar tower assisted combined cycle power plant using supercritical carbon dioxide as a heat transfer fluid. <i>International Journal of Exergy</i> , 2021, 36, 30.	0.4	3
75	Integrated Absorption Refrigeration Systems: Case Studies. <i>Green Energy and Technology</i> , 2016, , 197-239.	0.6	2
76	Experimental study of a hybrid photo-electrocatalytic hydrogen production reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7904-7918.	7.1	2
77	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
78	Fundamentals of Absorption Refrigeration Systems. <i>Green Energy and Technology</i> , 2016, , 1-25.	0.6	1
79	Energy, Exergy, and Exergoenvironmental Assessments of Solar-Assisted Absorption Cooling Systems and Conventional Air-Conditioning System: A Comparative Study. , 2018, , 435-455.		1
80	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
81	Performance analysis of a newly designed PEM fuel cell. , 2010, , .		0
82	Comparative exergo-environmental assessments of solar-based hydrogen production systems. <i>International Journal of Global Warming</i> , 2016, 10, 373.	0.5	0
83	Thermodynamic Analysis. <i>Green Energy and Technology</i> , 2016, , 27-46.	0.6	0
84	Double Effect Absorption Refrigeration System. <i>Green Energy and Technology</i> , 2016, , 71-105.	0.6	0
85	Triple Effect Absorption Refrigeration System. <i>Green Energy and Technology</i> , 2016, , 107-148.	0.6	0
86	Quadruple Effect Absorption Refrigeration System. <i>Green Energy and Technology</i> , 2016, , 149-196.	0.6	0
87	5.23 Energy Management in District Energy Systems. , 2018, , 868-895.		0
88	5.25 Concluding Remarks. , 2018, , 927-934.		0
89	Life Cycle Assessment and Feasibility Study of Solar Based Multi- Generation System. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101321.	2.7	0
90	Energy and Exergy Analyses of an Integrated Solar Based Hydrogen Production and Liquefaction System. , 2014, , 99-110.		0

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91	Comparative exergo-environmental assessments of solar-based hydrogen production systems. International Journal of Global Warming, 2016, 10, 373.	0.5	0
92	Techno-environmental analysis of a parabolic dish assisted recompression with and without reheat s-CO <sub>2</sub> Brayton cycle. International Journal of Exergy, 2018, 27, 527.	0.4	0
93	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
94	Municipal solid waste based multigeneration system for different districts of Karachi. International Journal of Exergy, 2019, 29, 300.	0.4	0
95	Performance evaluation of compressor assisted multi-effect absorption refrigeration cycles for power and cooling using evacuated tube collectors. International Journal of Exergy, 2020, 32, 227.	0.4	0
96	Thermo-environmental analysis and performance comparison of solar assisted single to multi-generation systems. International Journal of Exergy, 2021, 36, 243.	0.4	0