

Alireza Rezaniakolaei

List of Publications by Year in descending order

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71
papers

1,976
citations

279798

23
h-index

265206

42
g-index

72
all docs

72
docs citations

72
times ranked

1575
citing authors

#	ARTICLE	IF	CITATIONS
1	Cost-effective fabrication approaches for improving output performance of triboelectric energy harvesters. <i>Journal of Electrostatics</i> , 2022, 115, 103640.	1.9	6
2	Effect of the inherent capacitance optimization on the output performance of triboelectric nanogenerators. <i>Nano Energy</i> , 2022, 92, 106740.	16.0	10
3	Piezoelectric resonator design and analysis from stochastic car vibration using an experimentally validated finite element with viscous-structural damping model. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102228.	2.7	2
4	Online Condition Monitoring of Rotating Machines by Self-Powered Piezoelectric Transducer from Real-Time Experimental Investigations. <i>Sensors</i> , 2022, 22, 3395.	3.8	5
5	Higher power output in thermoelectric generator integrated with phase change material and metal foams under transient boundary condition. <i>Energy</i> , 2022, 256, 124644.	8.8	17
6	An experimental study to determine damping of piezoelectric harvesters using transient analysis of unified electromechanical voltage equation. <i>Energy Conversion and Management</i> , 2021, 227, 113567.	9.2	11
7	The investigation of viscous and structural damping for piezoelectric energy harvesters using only time-domain voltage measurements. <i>Applied Energy</i> , 2021, 285, 116427.	10.1	13
8	Fan operating condition effect on performance of self- cooling thermoelectric generator system. <i>Energy</i> , 2021, 224, 120177.	8.8	20
9	Thermoelectric performance and stress analysis on wearable thermoelectric generator under bending load. <i>Renewable Energy</i> , 2021, 173, 581-595.	8.9	27
10	A new Mylar-based triboelectric energy harvester with an innovative design for mechanical energy harvesting applications. <i>Energy Conversion and Management</i> , 2021, 244, 114489.	9.2	29
11	An Experimental Study on Transient Response of a Hybrid Thermoelectricâ€“Photovoltaic System with Beam Splitter. <i>Energies</i> , 2021, 14, 8129.	3.1	6
12	Utilizing thermoelectric generator as cavity temperature controller for temperature management in dish-Stirling engine. <i>Applied Thermal Engineering</i> , 2020, 165, 114568.	6.0	23
13	Hybrid energy harvesting system to maximize power generation from solar energy. <i>Energy Conversion and Management</i> , 2020, 205, 112352.	9.2	71
14	Zinc antimonide thin film based flexible thermoelectric module. <i>Materials Letters</i> , 2020, 280, 128582.	2.6	4
15	A comprehensive electromechanically coupled model for non-uniform piezoelectric energy harvesting composite laminates. <i>Mechanical Systems and Signal Processing</i> , 2020, 145, 106927.	8.0	22
16	Effect of substrate layers on thermo-electric performance under transient heat loads. <i>Energy Conversion and Management</i> , 2020, 219, 113068.	9.2	13
17	Critical parameters in integration of thermoelectric generators and phase change materials by numerical and Taguchi methods. <i>Materials Today Energy</i> , 2020, 16, 100376.	4.7	16
18	Design Optimization of Waste Heat Recovery System around Cement Rotary Kiln. <i>Journal of Energy Engineering - ASCE</i> , 2020, 146, 04020026.	1.9	1

#	ARTICLE	IF	CITATIONS
19	Numerical parametric study on the performance of CPV-TEG hybrid system. Energy Procedia, 2019, 158, 453-458.	1.8	19
20	Numerical Investigation of Radiative Heat Transfer in a Particulate Medium Using FTn Finite Volume Method. Energy Procedia, 2019, 158, 5692-5698.	1.8	0
21	Numerical Investigation of Radiative Heat Transfer inside a 2-D Irregular Geometry Containing Nano- and Micro-size Particles. Energy Procedia, 2019, 158, 5685-5691.	1.8	2
22	Study on material properties effect for maximization of thermoelectric power generation. Renewable Energy, 2019, 138, 236-242.	8.9	27
23	Effect of damage and support damping mechanisms on unimorph piezoelectric energy harvester. JVC/Journal of Vibration and Control, 2019, 25, 2409-2422.	2.6	10
24	Power optimization and economic evaluation of thermoelectric waste heat recovery system around a rotary cement kiln. Journal of Cleaner Production, 2019, 232, 1321-1334.	9.3	57
25	Experimental and numerical study on the transient behavior of multi-junction solar cell-thermoelectric generator hybrid system. Energy Conversion and Management, 2019, 184, 448-455.	9.2	76
26	Advancements in Photovoltaic Cell and System Technologies. International Journal of Photoenergy, 2019, 2019, 1-2.	2.5	9
27	Temperature Control of IGBTs by Thermoelectric Cooler. , 2019, , .		0
28	Effect of heat loss on performance of thin film thermoelectric; a mathematical model. Materials Research Express, 2019, 6, 096450.	1.6	5
29	Harvesting waste heat from cement kiln shell by thermoelectric system. Energy, 2019, 168, 358-369.	8.8	40
30	Behavior of hybrid concentrated photovoltaic-thermoelectric generator under variable solar radiation. Energy Conversion and Management, 2018, 164, 443-452.	9.2	97
31	Heat transfer efficiency of Al ₂ O ₃ -MWCNT/thermal oil hybrid nanofluid as a cooling fluid in thermal and energy management applications: An experimental and theoretical investigation. International Journal of Heat and Mass Transfer, 2018, 117, 474-486.	4.8	263
32	An experimental and theoretical investigation on heat transfer capability of Mg (OH) ₂ /MWCNT-engine oil hybrid nano-lubricant adopted as a coolant and lubricant fluid. Applied Thermal Engineering, 2018, 129, 577-586.	6.0	120
33	Characteristics and parametric analysis of a novel flexible ink-based thermoelectric generator for human body sensor. Energy Conversion and Management, 2018, 156, 655-665.	9.2	55
34	Numerical simulation of a novel ocean wave energy converter. Energy Procedia, 2018, 147, 474-481.	1.8	5
35	Transient behavior of the thermoelectric generators to the load change; an experimental investigation. Energy Procedia, 2018, 147, 537-543.	1.8	7
36	Performance evaluation of a high-temperature thermoelectric generator under different solar concentrations. Energy Procedia, 2018, 147, 624-630.	1.8	9

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37	Parametric study of a wave energy converter (Searaser) for Caspian Sea. Energy Procedia, 2018, 147, 334-342.	1.8	5
38	Energy Harvesting from a Thermoelectric Zinc Antimonide Thin Film under Steady and Unsteady Operating Conditions. Materials, 2018, 11, 2365.	2.9	3
39	Electrical response of thermoelectric generator to geometry variation under transient thermal boundary condition. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	9
40	Optimum Thermal Concentration of Solar Thermoelectric Generators (STEG) in Realistic Meteorological Condition. Energies, 2018, 11, 2425.	3.1	7
41	An Analytical Model for Performance Optimization of Thermoelectric Generator With Temperature Dependent Materials. IEEE Access, 2018, 6, 60852-60861.	4.2	19
42	Printing and Folding: A Solution for High-Throughput Processing of Organic Thin-Film Thermoelectric Devices. Sensors, 2018, 18, 989.	3.8	17
43	Numerical Study on Heat Transfer to an Arc Absorber Designed for a Waste Heat Recovery System around a Cement Kiln. Energies, 2018, 11, 671.	3.1	11
44	Experimental investigation of two-stage thermoelectric generator system integrated with phase change materials. Applied Energy, 2017, 208, 332-343.	10.1	74
45	Experimental Investigation of Zinc Antimonide Thin Film Thermoelectric Element over Wide Range of Operating Conditions. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700301.	1.8	7
46	Feasibility and parametric evaluation of hybrid concentrated photovoltaic-thermoelectric system. Applied Energy, 2017, 187, 380-389.	10.1	140
47	Effect of Thermal Cycling on Zinc Antimonide Thin Film Thermoelectric Characteristics. Energy Procedia, 2017, 142, 519-524.	1.8	10
48	View Factor of Solar Chimneys by Monte Carlo Method. Energy Procedia, 2017, 142, 513-518.	1.8	8
49	Transient Model of Hybrid Concentrated Photovoltaic with Thermoelectric Generator. Energy Procedia, 2017, 142, 564-569.	1.8	23
50	Thermal-Hydraulic Performance of a Corrugated Cooling Fin with Louvered Surfaces. Energy Procedia, 2017, 142, 4077-4084.	1.8	3
51	Experimental Study on Effect of Operating Conditions on Thermoelectric Power Generation. Energy Procedia, 2017, 142, 558-563.	1.8	12
52	Flexible Thermoelectric Generator Module as Body Energy Harvester. Proceedings (mdpi), 2017, 1, 814.	0.2	0
53	Coupled thermal model of photovoltaic-thermoelectric hybrid panel for sample cities in Europe. Renewable Energy, 2016, 99, 127-135.	8.9	62
54	A High Temperature Experimental Characterization Procedure for Oxide-Based Thermoelectric Generator Modules under Transient Conditions. Energies, 2015, 8, 12839-12847.	3.1	13

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55	A comparison of micro-structured flat-plate and cross-cut heat sinks for thermoelectric generation application. <i>Energy Conversion and Management</i> , 2015, 101, 730-737.	9.2	42
56	Simple engineering design for complex thermoelectric generators based on reduced current approach. <i>Energy</i> , 2015, 86, 455-466.	8.8	5
57	Parametric optimization of thermoelectric elements footprint for maximum power generation. <i>Journal of Power Sources</i> , 2014, 255, 151-156.	7.8	73
58	Intelligent design of waste heat recovery systems using thermoelectric generators and optimization tools. <i>Meccanica</i> , 2014, 49, 1211-1223.	2.0	12
59	Radius ratio effects on natural heat transfer in concentric annulus. <i>Experimental Thermal and Fluid Science</i> , 2013, 49, 135-140.	2.7	13
60	Comprehensive preference optimization of an irreversible thermal engine using pareto based mutable smart bee algorithm and generalized regression neural network. <i>Swarm and Evolutionary Computation</i> , 2013, 9, 90-103.	8.1	21
61	Integration of Thermoelectric Generators and Wood Stove to Produce Heat, Hot Water, and Electrical Power. <i>Journal of Electronic Materials</i> , 2013, 42, 2127-2133.	2.2	33
62	Experimental Investigation of a Natural Circulation Solar Domestic Water Heater Performance Under Standard Consumption Rate. <i>International Journal of Green Energy</i> , 2012, 9, 322-334.	3.8	6
63	Experimental investigation of thermoelectric power generation versus coolant pumping power in a microchannel heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1054-1058.	5.6	57
64	New Configurations of Micro Plate-Fin Heat Sink to Reduce Coolant Pumping Power. <i>Journal of Electronic Materials</i> , 2012, 41, 1298-1304.	2.2	32
65	Thermal Effect of Ceramic Substrate on Heat Distribution in Thermoelectric Generators. <i>Journal of Electronic Materials</i> , 2012, 41, 1343-1347.	2.2	11
66	Thermal effect of a thermoelectric generator on parallel microchannel heat sink. <i>Energy</i> , 2012, 37, 220-227.	8.8	46
67	Evaluating Thermoelectric Power Generation Device Performance Using a Rectangular Microchannel Heat Sink. <i>Journal of Electronic Materials</i> , 2011, 40, 481-488.	2.2	27
68	Experimental validation of dynamic simulation of the flat plate collector in a closed thermosyphon solar water heater. <i>Energy Conversion and Management</i> , 2011, 52, 301-307.	9.2	62
69	Consideration of transient heat conduction in a semi-infinite medium using homotopy analysis method. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2008, 29, 1625-1632.	3.6	4
70	An Experimental Study on Macro Piezoceramic Fiber Composites for Energy Harvesting. <i>Materials Science Forum</i> , 0, 951, 3-8.	0.3	12
71	Protection Of TEG Module at High Temperature Transient Boundary Condition Using Phase Change Materials, an Experimental Investigation. , 0, , .		0