Configuration optimization of the segmented modules is generator for engine waste heat recovery

Energy 160, 612-624 DOI: 10.1016/j.energy.2018.06.175

Citation Report

#	Article	IF	CITATIONS
1	Thermoelectric cooler and thermoelectric generator devices: A review of present and potential applications, modeling and materials. Energy, 2019, 186, 115849.	8.8	344
2	Segmented Thermoelectric Generator under Variable Pulsed Heat Input Power. Entropy, 2019, 21, 929.	2.2	5
3	Waste heat recovery of diesel engine using porous medium-assisted thermoelectric generator equipped with customized thermoelectric modules. Energy Conversion and Management, 2019, 197, 111902.	9.2	53
4	High performance and thermal stress analysis of a segmented annular thermoelectric generator. Energy Conversion and Management, 2019, 184, 180-193.	9.2	125
5	Automotive exhaust thermoelectric generators: Current status, challenges and future prospects. Energy Conversion and Management, 2019, 195, 1138-1173.	9.2	172
6	Performance assessment of engine exhaust-based segmented thermoelectric generators by length ratio optimization. Applied Energy, 2019, 248, 614-625.	10.1	44
7	Experimental study on the energy harvesting of a cooktop via thermoelectric module assisted with phase change material. Energy Storage, 2019, 1, e55.	4.3	1
8	Optimized high performance thermoelectric generator with combined segmented and asymmetrical legs under pulsed heat input power. Journal of Power Sources, 2019, 428, 53-66.	7.8	76
9	Advancements in thermoelectric generators for enhanced hybrid photovoltaic system performance. Renewable and Sustainable Energy Reviews, 2019, 109, 24-54.	16.4	118
10	Performance optimization of common plate-type thermoelectric generator in vehicle exhaust power generation systems. Energy, 2019, 175, 1153-1163.	8.8	36
11	Domestic thermoelectric cogeneration drying system: Thermal modeling and case study. Energy, 2019, 170, 1036-1050.	8.8	14
12	A comprehensive review of Thermoelectric Generators: Technologies and common applications. Energy Reports, 2020, 6, 264-287.	5.1	439
13	Design optimization under uncertainty of hybrid fuel cell energy systems for power generation and cooling purposes. International Journal of Hydrogen Energy, 2020, 45, 2224-2243.	7.1	15
14	Experimental study and optimization of a combustion-based micro thermoelectric generator. Applied Thermal Engineering, 2020, 181, 115431.	6.0	30
15	Mathematical modeling and numerical simulation of thermoelectric generator. AIP Conference Proceedings, 2020, , .	0.4	1
16	Geometry design for maximizing output power of segmented skutterudite thermoelectric generator by evolutionary computation. Applied Energy, 2020, 274, 115296.	10.1	43
17	Performance analysis of a multilayer thermoelectric generator for exhaust heat recovery of a heavy-duty diesel engine. Applied Energy, 2020, 274, 115298.	10.1	42
18	Assessment and optimization of exhaust gas heat exchanger with porous baffles and porous fins. Applied Thermal Engineering, 2020, 178, 115446.	6.0	20

CITATION REPORT

#	Article	IF	CITATIONS
19	Effect of substrate layers on thermo-electric performance under transient heat loads. Energy Conversion and Management, 2020, 219, 113068.	9.2	13
20	Novel hybrid system of pulsed HHO generator/TEG waste heat recovery for CO reduction of a gasoline engine. International Journal of Hydrogen Energy, 2020, 45, 23576-23586.	7.1	23
21	Effect of design shape factor on exergonic performance of a new modified extended-tapering segmented thermoelectric generator system. Energy, 2020, 200, 117561.	8.8	12
22	Lateral comparison of the coupling parameters on the novel hexagonal shaped cross flow thermoelectric generator. Energy, 2021, 215, 119163.	8.8	5
23	Improving the efficiency of an exhaust thermoelectric generator based on changes in the baffle distribution of the heat exchanger. Journal of Thermal Analysis and Calorimetry, 2021, 143, 523-533.	3.6	30
24	Numerical analysis of energy conversion efficiency and thermal reliability of novel, unileg segmented thermoelectric generation systems. International Journal of Energy Research, 2021, 45, 8810-8823.	4.5	20
25	Electrical Modelling and Mismatch Effects of Thermoelectric Modules on Performance of a Thermoelectric Generator for Energy Recovery in Diesel Exhaust Systems. Energies, 2021, 14, 3189.	3.1	8
26	Performance enhancement of a natural-gas-fired high-temperature thermoelectric generation system: Design, experiment and modelling optimization. Journal of Power Sources, 2021, 493, 229704.	7.8	4
27	A GPU-Accelerated ray-tracing method for determining radiation view factors in multi-junction thermoelectric generators. Energy, 2021, 228, 120438.	8.8	4
28	Performance analysis of a novel Two-stage automobile thermoelectric generator with the Temperature-dependent materials. Applied Thermal Engineering, 2021, 195, 117249.	6.0	26
29	Thermal management of thermoelectric generators for waste energy recovery. Applied Thermal Engineering, 2021, 196, 117291.	6.0	61
30	Process in micro-combustion and energy conversion of micro power system: A review. Energy Conversion and Management, 2021, 246, 114664.	9.2	37
31	Heat exchangers for automotive exhaust thermoelectric generators: A review. AIP Conference Proceedings, 2021, , .	0.4	2
32	Review of thermoelectric geometry and structure optimization for performance enhancement. Applied Energy, 2020, 268, 115075.	10.1	125
33	Global energy balance in a diesel engine with a thermoelectric generator. Applied Energy, 2020, 269, 115139.	10.1	36
34	Experimental study of the potential for thermal energy recovery with thermoelectric devices in low displacement diesel engines. Heliyon, 2021, 7, e08273.	3.2	3
35	Theoretical analysis of shape factor on performance of annular thermoelectric generators under different thermal boundary conditions. Energy, 2022, 239, 122285.	8.8	16
36	Structure parameters and designs and their impact on performance of different heat exchangers: A review. Renewable and Sustainable Energy Reviews, 2022, 154, 111842.	16.4	25

#	Article	IF	CITATIONS
37	Thermoelectric Generators: A comprehensive review of characteristics and applications. Applied Thermal Engineering, 2022, 201, 117793.	6.0	153
38	Investigation of thermoelectric performance based on thermal load with porous heat collector and traditional heat collector. Energy Conversion and Management, 2022, 251, 115010.	9.2	2
39	Energy, exergy, environmental sustainability and economic analyses for automotive thermoelectric generator system with various configurations. Energy, 2022, 244, 122587.	8.8	20
40	Characteristics and single/multi-objective optimization of thermoelectric generator by comprehensively considering inner-connection-and-contact effects and side-surface heat loss. Energy Conversion and Management, 2022, 251, 115003.	9.2	7
41	Analysis of Bismuth Telluride (Bi2Te3) Thermoelectric Generator. , 2020, , .		4
42	Performance assessment of annular thermoelectric generators for automobile exhaust waste heat recovery. Energy, 2022, 246, 123375.	8.8	23
43	Application of two-phase pulsating flow in organic Rankine cycle system for diesel engine waste heat recovery. Energy, 2022, 243, 122776.	8.8	6
44	Prospects of Thermoelectric Generators with Nanofluid. Thermal Science and Engineering Progress, 2022, 29, 101207.	2.7	17
45	Effect of structure parameters on the performance of an annular thermoelectric generator for automobile exhaust heat recovery. Energy Conversion and Management, 2022, 256, 115381.	9.2	19
46	Automotive Exhaust Thermoelectric Generator Unit Integrated to Exhaust Noise Muffler: Heat Recovery and Noise Attenuation Simulations. Energy, Environment, and Sustainability, 2022, , 323-340.	1.0	0
47	Evaluation and optimization of power cycle-thermoelectricity hybrid system driven by waste heat. Sustainable Energy Technologies and Assessments, 2022, 53, 102446.	2.7	1
48	Economic configuration optimization of onboard annual thermoelectric generators under multiple operating conditions. Renewable Energy, 2022, 197, 486-499.	8.9	15
49	Experimental investigation of a novel thermoelectric generator design for exhaust waste heat recovery in a gas-fueled SI engine. Applied Thermal Engineering, 2022, 216, 119122.	6.0	23
50	Improving Thermal Efficiency of Internal Combustion Engines: Recent Progress and Remaining Challenges. Energies, 2022, 15, 6222.	3.1	17
51	Performance comparison of thermal power generationâ€organic Rankine cycle combined cycle system for ships waste heat utilization under different bottom cycle ratios. Environmental Progress and Sustainable Energy, 2023, 42, .	2.3	1
52	Numerical investigation of an exhaust thermoelectric generator with a perforated plate. Energy, 2023, 263, 125776.	8.8	25
53	Opportunities for thermoelectric generators in supporting a low carbon economy. Nanomaterials and Energy, 2022, 11, 8-26.	0.2	2
54	Thermal Analysis of Teg's in Electrical Vehicle for Seebeck Effect Using Ansys CFD. Journal of Electrical Engineering and Technology, 2024, 19, 831-843.	2.0	0

CITATION REPORT

CITATION REPORT

#	Article	IF	CITATIONS
55	Performance analysis of thermoelectric generator system in different aspect ratio collector channels. Applied Thermal Engineering, 2023, 226, 120330.	6.0	2
56	Opportunities of waste heat recovery from various sources: Review of technologies and implementation. Heliyon, 2023, 9, e13590.	3.2	11
57	Maximizing energy generation: A study of radiative cooling-based thermoelectric power devices. Energy, 2023, 274, 127283.	8.8	3
58	Optimization Design of an Intermediate Fluid Thermoelectric Generator for Exhaust Waste Heat Recovery. Processes, 2023, 11, 1853.	2.8	2
59	An investigation of multistream plate-fin heat exchanger modelling and design: a review. Kerntechnik, 2023, .	0.2	0
60	Effect analysis on energy conversion enhancement of porous medium micro-combustor and thermoelectric system and its optimization. Energy Conversion and Management, 2023, 292, 117441.	9.2	6
61	Thermal uniformity enhancement of the motorcycle exhaust thermoelectric generator—Theory model for predicting heat exchanger fin profile. Results in Engineering, 2023, 19, 101324.	5.1	1
62	Effects of material doping on the performance of thermoelectric generator with/without equal segments. Applied Energy, 2023, 350, 121709.	10.1	1
63	Electricity Generation from Exhaust Waste Heat with Thermoelectric Module. UludaÄŸ University Journal of the Faculty of Engineering, 0, , 383-402.	0.2	0
64	Effect of pitch and angle of attack on thermal performance of new envelope and delta vortex generators for TEG: An experimental and numerical approach. International Journal of Thermal Sciences, 2024, 195, 108671.	4.9	3
65	A multi-objective optimization energy management strategy for marine hybrid propulsion with waste heat recovery system. Applied Thermal Engineering, 2024, 236, 121548.	6.0	1
66	Numerical investigation of a thermoelectric generator system with embedded sickle-shaped fins. Applied Thermal Engineering, 2024, 236, 121741.	6.0	5
67	Effect of operating conditions on the output performance of a compact TEG for low-grade geothermal energy utilization. Applied Thermal Engineering, 2024, 236, 121878.	6.0	1
68	A phase change material based annular thermoelectric energy harvester from ambient temperature fluctuations: Transient modeling and critical characteristics. Renewable Energy, 2024, 222, 119921.	8.9	0
69	Experimental and ensemble machine learning analyses of heat transfer, friction factor and thermal performance factor of rGO/water nanofluids in a tube. International Journal of Thermofluids, 2024, 21, 100557.	7.8	1
70	Advancements in Thermoelectric Generator Design: Exploring Heat Exchanger Efficiency and Material Properties. Energies, 2024, 17, 453.	3.1	0
71	Experimental and numerical study on thermal performance of new envelope and triangular vortex generators with different pitch and angle of attack. Thermal Science and Engineering Progress, 2024, 49, 102459.	2.7	0
72	A Review of Thermoelectric Generators in Automobile Waste Heat Recovery Systems for Improving Energy Utilization. Energies, 2024, 17, 1016.	3.1	Ο

#	Article	IF	CITATIONS
73	Numerical Investigation of a Novel Heat Exchanger in a High-Temperature Thermoelectric Generator. Energies, 2024, 17, 1121.	3.1	0