

Lingen Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

554
papers

14,831
citations

55
h-index

78
g-index

569
ext. papers

16,791
ext. citations

4.8
avg, IF

7.4
L-index

#	Paper	IF	Citations
554	Total entropy generation rate minimization configuration of a membrane reactor of methanol synthesis via carbon dioxide hydrogenation. <i>Science China Technological Sciences</i> , 2022 , 65, 657	3.5	9
553	Comparative Analysis of Five Widely-Used Multi-Criteria Decision-Making Methods to Evaluate Clean Energy Technologies: A Case Study. <i>Sustainability</i> , 2022 , 14, 1403	3.6	4
552	Constructal design for tree-shaped compound heat transfer channel in a disc heat generation body. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 132, 105929	5.8	2
551	Constructal design for dual-pressure axial-flow turbine in organic Rankine cycle. <i>Energy Reports</i> , 2022 , 8, 45-55	4.6	2
550	Multi-objective constructal design for a marine boiler considering entropy generation rate and power consumption. <i>Energy Reports</i> , 2022 , 8, 1519-1527	4.6	6
549	Multi-objective optimal configurations of a membrane reactor for steam methane reforming. <i>Energy Reports</i> , 2022 , 8, 527-538	4.6	11
548	Entropy generation rate minimization for sulfur trioxide decomposition membrane reactor. <i>Energy Reports</i> , 2022 , 8, 1483-1496	4.6	9
547	Constructal entropy generation rate minimization of heat conduction for leaf-shaped quadrilateral heat generation body. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	0
546	Heat transfer effect on the performance of thermal Brownian refrigerator. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	4
545	Heat transfer effect on the performance of thermal Brownian heat engine. <i>Energy Reports</i> , 2022 , 8, 3002-3010	4.3	5
544	Optimal piston motion configuration for irreversible Otto cycle heat engine with maximum ecological function objective. <i>Energy Reports</i> , 2022 , 8, 2875-2887	4.6	5
543	Five performance indicators for a universal generalized irreversible steady flow cycle including seven specific refrigeration cycles. <i>European Physical Journal Plus</i> , 2022 , 137,	3.1	2
542	Constructal design of a cooling channel with semi-circular sidewall ribs in a rectangular heat generation body. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 134, 106040	5.8	2
541	Comparative performance for thermoelectric refrigerators with radiative and Newtonian heat transfer laws. <i>Case Studies in Thermal Engineering</i> , 2022 , 34, 102069	5.6	3
540	Thermodynamic optimization criterion for practical Meletis-Georgiou cycle. <i>Energy Reports</i> , 2022 , 8, 6023-6034	4.6	0
539	Performance analysis and optimization of an irreversible Carnot heat engine cycle for space power plant. <i>Energy Reports</i> , 2022 , 8, 6593-6601	4.6	0
538	Efficiency optimized axial flow compressor stage with a given shape of flow-path. <i>Case Studies in Thermal Engineering</i> , 2022 , 102156	5.6	0

537	Power density characteristic analysis and multi-objective optimization of an irreversible porous medium engine cycle. <i>Case Studies in Thermal Engineering</i> , 2022 , 35, 102154	5.6	1
536	Ecological optimization of an irreversible Diesel cycle. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	24
535	Minimization of entropy generation rate during hydrogen iodide decomposition reaction process. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2021 , 51, 565-579	1.3	5
534	Progress in thermodynamic analyses and optimizations for key component units in sea-based fuel synthesis systems. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2021 , 51, 137-175	1.3	7
533	Exergy-Based Ecological Optimization of an Irreversible Quantum Carnot Heat Pump with Spin-1/2 Systems. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2021 , 46, 61-76	3.8	15
532	Performance Optimization for a Multielement Thermoelectric Refrigerator with Linear Phenomenological Heat Transfer Law. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2021 , 46, 149-162	3.8	22
531	Modeling of Irreversible Two-Stage Combined Thermal Brownian Refrigerators and Their Optimal Performance. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2021 , 46, 175-189	3.8	20
530	A generalized irreversible thermal Brownian motor cycle and its optimal performance. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	6
529	Numerical analysis and multi-objective optimization design of parabolic trough receiver with ribbed absorber tube. <i>Energy Reports</i> , 2021 , 7, 7488-7503	4.6	2
528	Modeling and Performance Optimization of an Irreversible Two-Stage Combined Thermal Brownian Heat Engine. <i>Entropy</i> , 2021 , 23,	2.8	7
527	Performance optimization of thermionic refrigerators based on van der Waals heterostructures. <i>Science China Technological Sciences</i> , 2021 , 64, 1007-1016	3.5	18
526	Modeling and Performance Optimization of Double-Resonance Electronic Cooling Device with Three Electron Reservoirs. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2021 , 46, 273-289	3.8	15
525	Power and Thermal Efficiency Optimization of an Irreversible Steady-Flow Lenoir Cycle. <i>Entropy</i> , 2021 , 23,	2.8	13
524	Performance Analysis and Optimization for Irreversible Combined Carnot Heat Engine Working with Ideal Quantum Gases. <i>Entropy</i> , 2021 , 23,	2.8	11
523	Status of direct and indirect solar desalination methods: comprehensive review. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	10
522	Constructal design for a boiler economizer. <i>Energy</i> , 2021 , 223, 120013	7.9	12
521	Exergoeconomic performance optimization of the space thermoradiative cell. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	6
520	Modeling and performance analysis of a combined thermal Brownian heat pump cycle. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2021 ,	1.3	2

519	Performance Optimizations with Single-, Bi-, Tri-, and Quadru-Objective for Irreversible Diesel Cycle. <i>Entropy</i> , 2021 , 23,	2.8	18
518	Performance optimization of three-terminal energy selective electron generators. <i>Science China Technological Sciences</i> , 2021 , 64, 1641-1652	3.5	14
517	Exergoeconomic performance analysis and optimisation of an irreversible-closed intercooled regenerated gas turbine cycle. <i>International Journal of Ambient Energy</i> , 2021 , 42, 211-219	2	3
516	Entropy generation minimisation for heat exchangers with heat leakage. <i>International Journal of Ambient Energy</i> , 2021 , 42, 789-794	2	2
515	An inverse optimisation for heat exchangers with entransy dissipation minimisation. <i>International Journal of Ambient Energy</i> , 2021 , 42, 730-735	2	2
514	Equivalent thermal resistance minimization for a circular disc heat sink with reverting microchannels based on constructal theory and entransy theory. <i>Science China Technological Sciences</i> , 2021 , 64, 111-121	3.5	4
513	Constructal thermodynamic optimization for dual-pressure organic Rankine cycle in waste heat utilization system. <i>Energy Conversion and Management</i> , 2021 , 227, 113585	10.6	35
512	Power, efficiency, ecological function and ecological coefficient of performance optimizations of irreversible Diesel cycle based on finite piston speed. <i>Energy</i> , 2021 , 216, 119235	7.9	18
511	Constructal Design for Heat Conduction 2021 ,		2
510	A multi-objective study on the constructal design of non-uniform heat generating disc cooled by radial- and dendritic-pattern cooling channels. <i>Science China Technological Sciences</i> , 2021 , 64, 729-744	3.5	11
509	Four-Objective Optimizations for an Improved Irreversible Closed Modified Simple Brayton Cycle. <i>Entropy</i> , 2021 , 23,	2.8	29
508	Performance Optimizations with Single-, Bi-, Tri-, and Quadru-Objective for Irreversible Atkinson Cycle with Nonlinear Variation of Working Fluid Specific Heat. <i>Energies</i> , 2021 , 14, 4175	3.1	19
507	Optimizing Power and Thermal Efficiency of an Irreversible Variable-Temperature Heat Reservoir Lenoir Cycle. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7171	2.6	8
506	Performance analysis of hydrogen iodide decomposition membrane reactor under different sweep modes. <i>Energy Conversion and Management</i> , 2021 , 244, 114436	10.6	13
505	Multi-Objective Constructal Optimization for Marine Condensers. <i>Energies</i> , 2021 , 14, 5545	3.1	13
504	Optimal Heat Exchanger Area Distribution and Low-Temperature Heat Sink Temperature for Power Optimization of an Endoreversible Space Carnot Cycle. <i>Entropy</i> , 2021 , 23,	2.8	4
503	Performance Analysis and Four-Objective Optimization of an Irreversible Rectangular Cycle. <i>Entropy</i> , 2021 , 23,	2.8	11
502	Multi-objective constructal design for compound heat dissipation channels in a three-dimensional trapezoidal heat generation body. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105584	5.8	11

501	Constructal thermodynamic optimization for a novel Kalina-organic Rankine combined cycle to utilize waste heat. <i>Energy Reports</i> , 2021 , 7, 6095-6106	4.6	13
500	Minimization of Entropy Generation Rate in Hydrogen Iodide Decomposition Reactor Heated by High-Temperature Helium. <i>Entropy</i> , 2021 , 23,	2.8	13
499	Minimum Entropy Generation Rate and Maximum Yield Optimization of Sulfuric Acid Decomposition Process Using NSGA-II. <i>Entropy</i> , 2020 , 22,	2.8	19
498	Power, Efficiency, Power Density and Ecological Function Optimization for an Irreversible Modified Closed Variable-Temperature Reservoir Regenerative Brayton Cycle with One Isothermal Heating Process. <i>Energies</i> , 2020 , 13, 5133	3.1	26
497	Performance of Universal Reciprocating Heat-Engine Cycle with Variable Specific Heats Ratio of Working Fluid. <i>Entropy</i> , 2020 , 22,	2.8	12
496	Optimal Power and Efficiency of Multi-Stage Endoreversible Quantum Carnot Heat Engine with Harmonic Oscillators at the Classical Limit. <i>Entropy</i> , 2020 , 22,	2.8	16
495	Power and efficiency optimization of open Maisotsenko-Brayton cycle and performance comparison with traditional open regenerated Brayton cycle. <i>Energy Conversion and Management</i> , 2020 , 217, 113001	10.6	31
494	Power and efficiency optimizations of an irreversible regenerative organic Rankine cycle. <i>Energy Conversion and Management</i> , 2020 , 220, 113079	10.6	35
493	Entropy generation rate minimization for steam methane reforming reactor heated by molten salt. <i>Energy Reports</i> , 2020 , 6, 685-697	4.6	27
492	Performance Optimization of a Condenser in Ocean Thermal Energy Conversion (OTEC) System Based on Constructal Theory and a Multi-Objective Genetic Algorithm. <i>Entropy</i> , 2020 , 22,	2.8	28
491	Power and Efficiency Optimization for Open Combined Regenerative Brayton and Inverse Brayton Cycles with Regeneration before the Inverse Cycle. <i>Entropy</i> , 2020 , 22,	2.8	16
490	Power Optimization of a Modified Closed Binary Brayton Cycle with Two Isothermal Heating Processes and Coupled to Variable-Temperature Reservoirs. <i>Energies</i> , 2020 , 13, 3212	3.1	11
489	Optimal Configuration of a Gas Expansion Process in a Piston-Type Cylinder with Generalized Convective Heat Transfer Law. <i>Energies</i> , 2020 , 13, 3229	3.1	15
488	Constructal Design of Elliptical Cylinders with Heat Generating for Entropy Generation Minimization. <i>Entropy</i> , 2020 , 22,	2.8	5
487	Constructal design of a non-uniform heat generating disc based on entropy generation minimization. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	13
486	Power and efficiency optimization of an irreversible quantum Carnot heat engine working with harmonic oscillators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 550, 124140	3.3	16
485	Thermodynamic modeling and analysis of an air-cooled small space thermoelectric cooler. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	23
484	Constructal Design of an Arrow-Shaped High Thermal Conductivity Channel in a Square Heat Generation Body. <i>Entropy</i> , 2020 , 22,	2.8	6

483	Constructal thermodynamic optimization for ocean thermal energy conversion system with dual-pressure organic Rankine cycle. <i>Energy Conversion and Management</i> , 2020 , 210, 112727	10.6	53
482	Constructal design progress for eight types of heat sinks. <i>Science China Technological Sciences</i> , 2020 , 63, 879-911	3.5	30
481	Modeling of heat transfer performance of carbon nanotube nanofluid in a tube with fixed wall temperature by using ANNs. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	39
480	Theoretical and experimental studies of heat transfer in a double-pipe heat exchanger equipped with twisted tape and nanofluid. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	27
479	Constructal optimization for an organic fluid shell-and-tube heat exchanger based on entransy theory. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2020 , 50, 1577-1587	1.3	4
478	Optimal Performance Regions of Feynman's Ratchet Engine with Different Optimization Criteria. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2020 , 45, 191-207	3.8	16
477	Performance optimization of an open simple-cycle gas turbine combined cooling, heating and power plant driven by basic oxygen furnace gas in China's steelmaking plants. <i>Energy</i> , 2020 , 203, 117791	7.9	28
476	Constructal design of a shell-and-tube condenser with ammonia-water working fluid. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 118, 104867	5.8	18
475	Exergy-based ecological optimization of an irreversible quantum Carnot heat pump with harmonic oscillators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 537, 122597	3.3	19
474	Power output, thermal efficiency and exergy-based ecological performance optimizations of an irreversible KCS-34 coupled to variable temperature heat reservoirs. <i>Energy Conversion and Management</i> , 2020 , 205, 112424	10.6	38
473	Work output and thermal efficiency of an endoreversible entangled quantum Stirling engine with one dimensional isotropic Heisenberg model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 547, 123856	3.3	11
472	Comparative performance analyses of molten carbonate fuel cell-alkali metal thermal to electric converter and molten carbonate fuel cell-thermo-electric generator hybrid systems. <i>Energy Reports</i> , 2020 , 6, 10-16	4.6	25
471	Multi-objective optimization for helium-heated reverse water gas shift reactor by using NSGA-II. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119025	4.9	51
470	Constructal design for supercharged boiler superheater. <i>Energy</i> , 2020 , 191, 116484	7.9	35
469	Constructal design and experimental validation of a non-uniform heat generating body with rectangular cross-section and parallel circular cooling channels. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119028	4.9	15
468	Power density analysis and multi-objective optimization for a modified endoreversible simple closed Brayton cycle with one isothermal heating process. <i>Energy Reports</i> , 2020 , 6, 1648-1657	4.6	31
467	Theoretical maximum efficiency and higher power output in triboelectric nanogenerators. <i>Energy Reports</i> , 2020 , 6, 2463-2475	4.6	10
466	Thermal analysis of a nanofluid free jet impingement on a rotating disk using volume of fluid in combination with discrete modelling. <i>International Journal of Thermal Sciences</i> , 2020 , 158, 106532	4.1	10

465	Performance optimization of a class of combined thermoelectric heating devices. <i>Science China Technological Sciences</i> , 2020 , 63, 2640-2648	3.5	36
464	Maximum energy output chemical pump configuration with an infinite-low- and a finite-high-chemical potential mass reservoirs. <i>Energy Conversion and Management</i> , 2020 , 223, 113261	10.6	17
463	Re-Optimization of Expansion Work of a Heated Working Fluid with Generalized Radiative Heat Transfer Law. <i>Entropy</i> , 2020 , 22,	2.8	14
462	Constructal Equivalent Thermal Resistance Minimization for Tau-Shaped Fin. <i>Entropy</i> , 2020 , 22,	2.8	3
461	Four-Objective Optimization of Irreversible Atkinson Cycle Based on NSGA-II. <i>Entropy</i> , 2020 , 22,	2.8	30
460	Performance evaluation and parametric optimum design of irreversible thermionic generators based on van der Waals heterostructures. <i>Energy Conversion and Management</i> , 2020 , 225, 113360	10.6	20
459	Optimal Ecological Performance Investigation of a Quantum Harmonic Oscillator Brayton Refrigerator. <i>Journal of Thermal Science and Engineering Applications</i> , 2020 , 12,	1.9	7
458	Thermodynamic analyses of different scenarios in a CCHP system with micro turbine \square Absorption chiller, and heat exchanger. <i>Energy Conversion and Management</i> , 2019 , 198, 111919	10.6	36
457	A review on the utilized machine learning approaches for modeling the dynamic viscosity of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 114, 109345	16.2	78
456	Constructal entransy dissipation rate minimization for X-shaped vascular networks. <i>Science China Technological Sciences</i> , 2019 , 62, 2195-2203	3.5	13
455	Pumping power minimization of an evaporator in ocean thermal energy conversion system based on constructal theory. <i>Energy</i> , 2019 , 181, 974-984	7.9	26
454	A review on the approaches applied for cooling fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 517-525	4.9	54
453	Constructal design for supercharged boiler evaporator. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 571-579	4.9	15
452	Maximum work output from an electric battery with variable equivalent capacitance. <i>International Journal of Ambient Energy</i> , 2019 , 1-9	2	
451	Maximum Hydrogen Production Rate Optimization for Tubular Steam Methane Reforming Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2019 , 17,	1.2	6
450	Entropy generation rate minimization for hydrocarbon synthesis reactor from carbon dioxide and hydrogen. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 1112-1123	4.9	25
449	Constructal design of nonuniform heat generating area based on triangular elements: A case of entropy generation minimization. <i>International Journal of Thermal Sciences</i> , 2019 , 139, 403-412	4.1	26
448	Constructal design of a shell-and-tube evaporator with ammonia-water working fluid. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 541-547	4.9	28

447	Thermoelectric cooler and thermoelectric generator devices: A review of present and potential applications, modeling and materials. <i>Energy</i> , 2019 , 186, 115849	7.9	155
446	Optimal performance region of energy selective electron cooling devices consisting of three reservoirs. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	22
445	Smart modeling by using artificial intelligent techniques on thermal performance of flat-plate solar collector using nanofluid. <i>Energy Science and Engineering</i> , 2019 , 7, 1649-1658	3.4	71
444	Optimum ecological performance of irreversible reciprocating Maisotsenko-Brayton cycle. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	24
443	Thermodynamic Analysis and Optimization of an Irreversible Maisotsenko-Diesel Cycle. <i>Journal of Thermal Science</i> , 2019 , 28, 659-668	1.9	10
442	Effects of design parameters on entropy generation rate of sulphuric acid decomposition process. <i>International Journal of Ambient Energy</i> , 2019 , 1-6	2	1
441	Optimal design of dual-pressure turbine in OTEC system based on constructal theory. <i>Energy Conversion and Management</i> , 2019 , 201, 112179	10.6	22
440	Generalized dissipation minimization for generalized flow transfer processes. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2019 , 49, 501-517	1.3	2
439	Progresses in generalized thermodynamic dynamic-optimization of irreversible processes. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2019 , 49, 981-1022	1.3	26
438	Constructal optimization for disc-point heat conduction with nonuniform heat generating. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 1191-1198	4.9	17
437	Optimal performance regions of an irreversible energy selective electron heat engine with double resonances. <i>Science China Technological Sciences</i> , 2019 , 62, 397-405	3.5	10
436	Exergoeconomic performance optimization for a regenerative closed-cycle gas turbine combined heat and power plant. <i>Energy Reports</i> , 2019 , 5, 1525-1531	4.6	23
435	Entropy Generation Rate Minimization for Methanol Synthesis via a CO Hydrogenation Reactor. <i>Entropy</i> , 2019 , 21,	2.8	29
434	Constructal design of a shell-and-tube heat exchanger for organic fluid evaporation process. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 131, 750-756	4.9	41
433	Constructal design for disc-shaped heat exchanger with maximum thermal efficiency. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 740-746	4.9	27
432	Progress of constructal theory in China over the past decade. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 393-419	4.9	72
431	Exergy-based ecological optimization for a four-temperature-level absorption heat pump with heat resistance, heat leakage and internal irreversibility. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 855-861	4.9	23
430	Constructal operation cost minimization for in-line cylindrical pin-fin heat sinks. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 562-568	4.9	17

429	Optimization of the power, efficiency and ecological function for an air-standard irreversible Dual-Miller cycle. <i>Frontiers in Energy</i> , 2019 , 13, 579-589	2.6	3
428	Entropy generation analysis for convective heat transfer of nanofluids in tree-shaped network flowing channels. <i>Thermal Science and Engineering Progress</i> , 2018 , 5, 546-554	3.6	11
427	Entropy generation minimization for CO ₂ hydrogenation to light olefins. <i>Energy</i> , 2018 , 147, 187-196	7.9	51
426	Molten steel yield optimization of a converter based on constructal theory. <i>Science China Technological Sciences</i> , 2018 , 61, 496-505	3.5	11
425	Effect of specific heat variations on irreversible Otto cycle performance. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 122, 403-409	4.9	27
424	Heat conduction constructal optimization for nonuniform heat generating area based on triangular element. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 896-902	4.9	22
423	Thermodynamic Analysis of TEG-TEC Device Including Influence of Thomson Effect. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2018 , 43, 75-86	3.8	19
422	Constructal optimizations for \square -shaped high conductivity channels based on entransy dissipation rate minimization. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 119, 640-646	4.9	25
421	Thermodynamic optimization for an air-standard irreversible Dual-Miller cycle with linearly variable specific heat ratio of working fluid. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 46-57	4.9	22
420	Performance of quantum Stirling heat engine with numerous copies of extreme relativistic particles confined in 1D potential well. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 503, 58-70	3.3	14
419	Thermodynamic performance of Dual-Miller cycle (DMC) with polytropic processes based on power output, thermal efficiency and ecological function. <i>Science China Technological Sciences</i> , 2018 , 61, 453-463	3.5	26
418	Entropy generation minimization for isothermal crystallization processes with a generalized mass diffusion law. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 1-8	4.9	33
417	Performance analysis and optimization for generalized quantum Stirling refrigeration cycle with working substance of a particle confined in a general 1D potential. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 57-63	3	9
416	Influences of the Thomson Effect on the Performance of a Thermoelectric Generator-Driven Thermoelectric Heat Pump Combined Device. <i>Entropy</i> , 2018 , 20,	2.8	21
415	Constructal Optimizations for Heat and Mass Transfers Based on the Entransy Dissipation Extremum Principle, Performed at the Naval University of Engineering: A Review. <i>Entropy</i> , 2018 , 20,	2.8	23
414	Thermodynamic Optimization for an Endoreversible Dual-Miller Cycle (DMC) with Finite Speed of Piston. <i>Entropy</i> , 2018 , 20,	2.8	22
413	Entropy Generation Minimization for Reverse Water Gas Shift (RWGS) Reactors. <i>Entropy</i> , 2018 , 20,	2.8	32
412	Performance Optimization of Irreversible Air Heat Pumps Considering Size Effect. <i>Journal of Thermal Science</i> , 2018 , 27, 223-229	1.9	7

411	Constructal optimization for line-to-line vascular based on entropy generation minimization principle. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 848-854	4.9	14
410	Power and efficiency performance analyses for a closed endoreversible binary Brayton cycle with two isothermal processes. <i>Thermal Science and Engineering Progress</i> , 2018 , 7, 131-137	3.6	8
409	Entropy generation minimization of steam methane reforming reactor with linear phenomenological heat transfer law. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2018 , 48, 25-38	1.3	9
408	Interaction mechanism among material flows, energy flows and environment and generalized thermodynamic optimizations for iron and steel production processes. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2018 , 48, 111-135	1.3	3
407	Burdening proportion and new energy-saving technologies analysis and optimization for iron and steel production system. <i>Journal of Cleaner Production</i> , 2018 , 172, 2153-2166	10.3	20
406	Constructal Optimization for Cooling a Non-Uniform Heat Generating Radial-Pattern Disc by Conduction. <i>Entropy</i> , 2018 , 20,	2.8	13
405	Thermodynamic Analysis of an Irreversible Maisotsenko Reciprocating Brayton Cycle. <i>Entropy</i> , 2018 , 20,	2.8	17
404	Thermodynamic optimization for irreversible thermal Brownian motors, energy selective electron engines and thermionic devices. <i>International Journal of Ambient Energy</i> , 2018 , 1-5	2	8
403	Local stability of a generalized irreversible heat engine with linear phenomenological heat transfer law working in an ecological regime. <i>Thermal Science and Engineering Progress</i> , 2018 , 8, 537-541	3.6	4
402	Optimal Performance Characteristics of Subcritical Simple Irreversible Organic Rankine Cycle. <i>Journal of Thermal Science</i> , 2018 , 27, 555-562	1.9	18
401	Constructal Design of a Converter Steelmaking Procedure Based on Multi-objective Optimization. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 5003-5015	2.5	5
400	Thermodynamic analyses and optimizations of extraction process of CO ₂ from acidic seawater by using hollow fiber membrane contactor. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 1310-1320	4.9	22
399	Constructal heat conduction optimization: Progresses with entransy dissipation rate minimization. <i>Thermal Science and Engineering Progress</i> , 2018 , 7, 155-163	3.6	18
398	Influences of external heat transfer and Thomson effect on the performance of TEG-TEC combined thermoelectric device. <i>Science China Technological Sciences</i> , 2018 , 61, 1600-1610	3.5	19
397	Optimal power and efficiency of quantum Stirling heat engines. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	31
396	Constructal design for helm-shaped fin with internal heat sources. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 1-6	4.9	26
395	Power, efficiency, ecological function and ecological coefficient of performance of an irreversible Dual-Miller cycle (DMC) with nonlinear variable specific heat ratio of working fluid. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	35
394	Exergy-based ecological performance of an irreversible Otto cycle with temperature-linear-relation variable specific heat of working fluid. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	28

393	Capital dissipation minimization for a class of complex irreversible resource exchange processes. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	10
392	Theoretical and experimental investigation of optimal capacitor charging process in RC circuit. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	16
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