

# Lingen Chen

## List of Publications by Year in descending order

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568  
papers

18,610  
citations

20817

60  
h-index

49909

87  
g-index

569  
all docs

569  
docs citations

569  
times ranked

3861  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of design parameters on entropy generation rate of sulphuric acid decomposition process. <i>International Journal of Ambient Energy</i> , 2022, 43, 1083-1088.	2.5	3
2	A review on heat transfer characteristics of cryogenic heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5533-5547.	3.6	5
3	The influence of high-porosity nickel foam on the transition flow regime for heat transfer and pressure drop characteristics in a rectangular channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 8475-8484.	3.6	1
4	Constructal design for dual-pressure axial-flow turbine in organic Rankine cycle. <i>Energy Reports</i> , 2022, 8, 45-55.	5.1	8
5	Multi-objective constructal design for a marine boiler considering entropy generation rate and power consumption. <i>Energy Reports</i> , 2022, 8, 1519-1527.	5.1	35
6	Multi-objective optimal configurations of a membrane reactor for steam methane reforming. <i>Energy Reports</i> , 2022, 8, 527-538.	5.1	47
7	Entropy generation rate minimization for sulfur trioxide decomposition membrane reactor. <i>Energy Reports</i> , 2022, 8, 1483-1496.	5.1	26
8	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, 657-678.	4.0	65
9	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.	3.2	24
10	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.	5.6	19
11	Constructal entropy generation rate minimization of heat conduction for leaf-shaped quadrilateral heat generation body. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	8
12	Multi-objective optimization for membrane reactor for steam methane reforming heated by molten salt. <i>Science China Technological Sciences</i> , 2022, 65, 1396-1414.	4.0	70
13	Heat transfer effect on the performance of thermal Brownian refrigerator. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	10
14	Heat transfer effect on the performance of thermal Brownian heat engine. <i>Energy Reports</i> , 2022, 8, 3002-3010.	5.1	18
15	Optimal piston motion configuration for irreversible Otto cycle heat engine with maximum ecological function objective. <i>Energy Reports</i> , 2022, 8, 2875-2887.	5.1	27
16	Five performance indicators for a universal generalized irreversible steady flow cycle including seven specific refrigeration cycles. <i>European Physical Journal Plus</i> , 2022, 137, .	2.6	8
17	Power Density Analysis and Multi-Objective Optimization for an Irreversible Dual Cycle. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2022, 47, 289-309.	4.2	52
18	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.	5.6	16

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19	Comparative performance for thermoelectric refrigerators with radiative and Newtonian heat transfer laws. Case Studies in Thermal Engineering, 2022, 34, 102069.	5.7	30
20	Thermodynamic optimization criterion for practical Meletisâ€“Georgiou cycle. Energy Reports, 2022, 8, 6023-6034.	5.1	8
21	Performance analysis and optimization of an irreversible Carnot heat engine cycle for space power plant. Energy Reports, 2022, 8, 6593-6601.	5.1	10
22	Efficiency optimized axial flow compressor stage with a given shape of flow-path. Case Studies in Thermal Engineering, 2022, 36, 102156.	5.7	3
23	Power density characteristic analysis and multi-objective optimization of an irreversible porous medium engine cycle. Case Studies in Thermal Engineering, 2022, 35, 102154.	5.7	36
24	Thermal Brownian heat engine with external and internal irreversibilities. Energy, 2022, 255, 124582.	8.8	29
25	Thermal Brownian refrigerator with external and internal irreversibilities. Case Studies in Thermal Engineering, 2022, 36, 102185.	5.7	13
26	Maximizing power output of endoreversible non-isothermal chemical engine via linear irreversible thermodynamics. Energy, 2022, 255, 124526.	8.8	32
27	Optimal Design of a Dual-Pressure Steam Turbine for Rankine Cycle Based on Constructal Theory. Energies, 2022, 15, 4854.	3.1	7
28	Minimizing entransy dissipation for heat transfer processes with $q$	5.7	11
29	Multi-objective optimization of Stirling heat engine with various heat and mechanical losses. Energy, 2022, 256, 124699.	8.8	38
30	Multi-objective optimization of endoreversible magnetohydrodynamic cycle. Energy Reports, 2022, 8, 8918-8927.	5.1	13
31	Exergoeconomic performance analysis and optimisation of an irreversible-closed intercooled regenerated gas turbine cycle. International Journal of Ambient Energy, 2021, 42, 211-219.	2.5	3
32	Entropy generation minimisation for heat exchangers with heat leakage. International Journal of Ambient Energy, 2021, 42, 789-794.	2.5	6
33	An inverse optimisation for heat exchangers with entransy dissipation minimisation. International Journal of Ambient Energy, 2021, 42, 730-735.	2.5	5
34	Equivalent thermal resistance minimization for a circular disc heat sink with reverting microchannels based on constructal theory and entransy theory. Science China Technological Sciences, 2021, 64, 111-121.	4.0	21
35	Constructal thermodynamic optimization for dual-pressure organic Rankine cycle in waste heat utilization system. Energy Conversion and Management, 2021, 227, 113585.	9.2	69
36	Power, efficiency, ecological function and ecological coefficient of performance optimizations of irreversible Diesel cycle based on finite piston speed. Energy, 2021, 216, 119235.	8.8	31

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37	Constructal Design for Heat Conduction. , 2021, , .		7
38	A multi-objective study on the constructal design of non-uniform heat generating disc cooled by radial- and dendritic-pattern cooling channels. Science China Technological Sciences, 2021, 64, 729-744.	4.0	33
39	Four-Objective Optimizations for an Improved Irreversible Closed Modified Simple Brayton Cycle. Entropy, 2021, 23, 282.	2.2	53
40	Modeling and Performance Optimization of an Irreversible Two-Stage Combined Thermal Brownian Heat Engine. Entropy, 2021, 23, 419.	2.2	7
41	Performance optimization of thermionic refrigerators based on van der Waals heterostructures. Science China Technological Sciences, 2021, 64, 1007-1016.	4.0	55
42	Modeling and Performance Optimization of Double-Resonance Electronic Cooling Device with Three Electron Reservoirs. Journal of Non-Equilibrium Thermodynamics, 2021, 46, 273-289.	4.2	33
43	Power and Thermal Efficiency Optimization of an Irreversible Steady-Flow Lenoir Cycle. Entropy, 2021, 23, 425.	2.2	18
44	Performance Analysis and Optimization for Irreversible Combined Carnot Heat Engine Working with Ideal Quantum Gases. Entropy, 2021, 23, 536.	2.2	19
45	Status of direct and indirect solar desalination methods: comprehensive review. European Physical Journal Plus, 2021, 136, 1.	2.6	17
46	Constructal design for a boiler economizer. Energy, 2021, 223, 120013.	8.8	33
47	Exergoeconomic performance optimization of the space thermoradiative cell. European Physical Journal Plus, 2021, 136, 1.	2.6	10
48	Modeling and performance analysis of a combined thermal Brownian heat pump cycle. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2021, , .	0.5	4
49	Performance Optimizations with Single-, Bi-, Tri-, and Quadru-Objective for Irreversible Diesel Cycle. Entropy, 2021, 23, 826.	2.2	27
50	Performance optimization of three-terminal energy selective electron generators. Science China Technological Sciences, 2021, 64, 1641-1652.	4.0	44
51	Performance Optimizations with Single-, Bi-, Tri-, and Quadru-Objective for Irreversible Atkinson Cycle with Nonlinear Variation of Working Fluid's Specific Heat. Energies, 2021, 14, 4175.	3.1	28
52	Constructal optimization of heat conduction with minimum entransy dissipation rate for leaf-shaped quadrilateral heat-generating body. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2021, , .	0.5	0
53	Optimizing Power and Thermal Efficiency of an Irreversible Variable-Temperature Heat Reservoir Lenoir Cycle. Applied Sciences (Switzerland), 2021, 11, 7171.	2.5	16
54	Performance analysis of hydrogen iodide decomposition membrane reactor under different sweep modes. Energy Conversion and Management, 2021, 244, 114436.	9.2	20

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55	Multi-Objective Constructal Optimization for Marine Condensers. <i>Energies</i> , 2021, 14, 5545.	3.1	30
56	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, 1285.	2.2	6
57	Performance Analysis and Four-Objective Optimization of an Irreversible Rectangular Cycle. <i>Entropy</i> , 2021, 23, 1203.	2.2	21
58	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.	5.6	27
59	Constructal thermodynamic optimization for a novel Kalina-organic Rankine combined cycle to utilize waste heat. <i>Energy Reports</i> , 2021, 7, 6095-6106.	5.1	33
60	Minimization of Entropy Generation Rate in Hydrogen Iodide Decomposition Reactor Heated by High-Temperature Helium. <i>Entropy</i> , 2021, 23, 82.	2.2	19
61	Ecological optimization of an irreversible Diesel cycle. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	42
62	Minimization of entropy generation rate during hydrogen iodide decomposition reaction process. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2021, 51, 565-579.	0.5	10
63	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.	0.5	10
64	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.	4.2	40
65	Performance Optimization for a Multielement Thermoelectric Refrigerator with Linear Phenomenological Heat Transfer Law. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2021, 46, 149-162.	4.2	52
66	Modeling of Irreversible Two-Stage Combined Thermal Brownian Refrigerators and Their Optimal Performance. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2021, 46, 175-189.	4.2	47
67	Progress in theoretical study on constructal optimization of marine steam power plants. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2021, , .	0.5	2
68	A generalized irreversible thermal Brownian motor cycle and its optimal performance. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	13
69	Numerical analysis and multi-objective optimization design of parabolic trough receiver with ribbed absorber tube. <i>Energy Reports</i> , 2021, 7, 7488-7503.	5.1	12
70	Optimal Ecological Performance Investigation of a Quantum Harmonic Oscillator Brayton Refrigerator. <i>Journal of Thermal Science and Engineering Applications</i> , 2020, 12, .	1.5	9
71	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.	2.6	27
72	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.	9.2	47

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73	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.	2.6	19
74	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.	5.1	42
75	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.	4.8	76
76	Constructal design for supercharged boiler superheater. <i>Energy</i> , 2020, 191, 116484.	8.8	57
77	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.	4.8	23
78	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.	5.1	49
79	Theoretical maximum efficiency and higher power output in triboelectric nanogenerators. <i>Energy Reports</i> , 2020, 6, 2463-2475.	5.1	19
80	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.	4.9	20
81	Performance optimization of a class of combined thermoelectric heating devices. <i>Science China Technological Sciences</i> , 2020, 63, 2640-2648.	4.0	77
82	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.	9.2	34
83	Re-Optimization of Expansion Work of a Heated Working Fluid with Generalized Radiative Heat Transfer Law. <i>Entropy</i> , 2020, 22, 720.	2.2	20
84	Constructal Equivalent Thermal Resistance Minimization for Tau-Shaped Fin. <i>Entropy</i> , 2020, 22, 1206.	2.2	4
85	Four-Objective Optimization of Irreversible Atkinson Cycle Based on NSGA-II. <i>Entropy</i> , 2020, 22, 1150.	2.2	48
86	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.	9.2	30
87	Minimum Entropy Generation Rate and Maximum Yield Optimization of Sulfuric Acid Decomposition Process Using NSGA-II. <i>Entropy</i> , 2020, 22, 1065.	2.2	24
88	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	38
89	Performance of Universal Reciprocating Heat-Engine Cycle with Variable Specific Heats Ratio of Working Fluid. <i>Entropy</i> , 2020, 22, 397.	2.2	14
90	Optimal Power and Efficiency of Multi-Stage Endoreversible Quantum Carnot Heat Engine with Harmonic Oscillators at the Classical Limit. <i>Entropy</i> , 2020, 22, 457.	2.2	18

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91	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.	9.2	52
92	Power and efficiency optimizations of an irreversible regenerative organic Rankine cycle. <i>Energy Conversion and Management</i> , 2020, 220, 113079.	9.2	61
93	Entropy generation rate minimization for steam methane reforming reactor heated by molten salt. <i>Energy Reports</i> , 2020, 6, 685-697.	5.1	43
94	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, 641.	2.2	40
95	Power and Efficiency Optimization for Open Combined Regenerative Brayton and Inverse Brayton Cycles with Regeneration before the Inverse Cycle. <i>Entropy</i> , 2020, 22, 677.	2.2	25
96	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	16
97	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	22
98	Constructal Design of Elliptical Cylinders with Heat Generating for Entropy Generation Minimization. <i>Entropy</i> , 2020, 22, 651.	2.2	6
99	Constructal design of a non-uniform heat generating disc based on entropy generation minimization. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	22
100	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.	2.6	23
101	Thermodynamic modeling and analysis of an air-cooled small space thermoelectric cooler. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	30
102	Constructal Design of an Arrow-Shaped High Thermal Conductivity Channel in a Square Heat Generation Body. <i>Entropy</i> , 2020, 22, 475.	2.2	13
103	Constructal thermodynamic optimization for ocean thermal energy conversion system with dual-pressure organic Rankine cycle. <i>Energy Conversion and Management</i> , 2020, 210, 112727.	9.2	82
104	Constructal design progress for eight types of heat sinks. <i>Science China Technological Sciences</i> , 2020, 63, 879-911.	4.0	55
105	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.	8.8	41
106	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.	5.6	29
107	Modeling of heat transfer performance of carbon nanotube nanofluid in a tube with fixed wall temperature by using ANN-GA. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	54
108	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.	2.6	46

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109	Optimal configurations for maximizing generalized output of two-finite-potential-reservoir endoreversible generalized engine cycles. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2020, 50, 276-286.	0.5	4
110	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.	0.5	6
111	Optimal Performance Regions of Feynman's Ratchet Engine with Different Optimization Criteria. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2020, 45, 191-207.	4.2	33
112	Thermoelectric cooler and thermoelectric generator devices: A review of present and potential applications, modeling and materials. <i>Energy</i> , 2019, 186, 115849.	8.8	344
113	Optimal performance region of energy selective electron cooling devices consisting of three reservoirs. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	28
114	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.	4.0	101
115	Optimum ecological performance of irreversible reciprocating Maisotsenko-Brayton cycle. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	29
116	Thermodynamic Analysis and Optimization of an Irreversible Maisotsenko-Diesel Cycle. <i>Journal of Thermal Science</i> , 2019, 28, 659-668.	1.9	12
117	Optimal design of dual-pressure turbine in OTEC system based on constructal theory. <i>Energy Conversion and Management</i> , 2019, 201, 112179.	9.2	35
118	Thermodynamic analyses of different scenarios in a CCHP system with micro turbine " Absorption chiller, and heat exchanger. <i>Energy Conversion and Management</i> , 2019, 198, 111919.	9.2	45
119	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.	16.4	127
120	Constructal entransy dissipation rate minimization for X-shaped vascular networks. <i>Science China Technological Sciences</i> , 2019, 62, 2195-2203.	4.0	17
121	Pumping power minimization of an evaporator in ocean thermal energy conversion system based on constructal theory. <i>Energy</i> , 2019, 181, 974-984.	8.8	43
122	A review on the approaches applied for cooling fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 517-525.	4.8	111
123	Constructal design for supercharged boiler evaporator. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 571-579.	4.8	28
124	Maximum Hydrogen Production Rate Optimization for Tubular Steam Methane Reforming Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2019, 17, .	1.1	11
125	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.	4.8	29
126	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.	4.9	36



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127	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.	4.8	35
128	Constructal optimization for disc-point heat conduction with nonuniform heat generating. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 1191-1198.	4.8	28
129	Optimal performance regions of an irreversible energy selective electron heat engine with double resonances. <i>Science China Technological Sciences</i> , 2019, 62, 397-405.	4.0	14
130	Exergoeconomic performance optimization for a regenerative closed-cycle gas turbine combined heat and power plant. <i>Energy Reports</i> , 2019, 5, 1525-1531.	5.1	29
131	Entropy Generation Rate Minimization for Methanol Synthesis via a CO <sub>2</sub> Hydrogenation Reactor. <i>Entropy</i> , 2019, 21, 174.	2.2	34
132	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.	4.8	54
133	Constructal design for disc-shaped heat exchanger with maximum thermal efficiency. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 740-746.	4.8	33
134	Progress of constructal theory in China over the past decade. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 393-419.	4.8	101
135	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.	4.8	26
136	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.	4.8	21
137	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.	2.3	5
138	Generalized dissipation minimization for generalized flow transfer processes. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2019, 49, 501-517.	0.5	5
139	Progresses in generalized thermodynamic dynamic-optimization of irreversible processes. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2019, 49, 981-1022.	0.5	37
140	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.	2.7	11
141	Entropy generation minimization for CO <sub>2</sub> hydrogenation to light olefins. <i>Energy</i> , 2018, 147, 187-196.	8.8	58
142	Molten steel yield optimization of a converter based on constructal theory. <i>Science China Technological Sciences</i> , 2018, 61, 496-505.	4.0	13
143	Effect of specific heat variations on irreversible Otto cycle performance. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 403-409.	4.8	33
144	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.	4.8	28

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145	Thermodynamic Analysis of TEG-TEC Device Including Influence of Thomson Effect. Journal of Non-Equilibrium Thermodynamics, 2018, 43, 75-86.	4.2	31
146	Constructal optimizations for $\epsilon$ -shaped high conductivity channels based on entransy dissipation rate minimization. International Journal of Heat and Mass Transfer, 2018, 119, 640-646.	4.8	27
147	Thermodynamic optimization for an air-standard irreversible Dual-Miller cycle with linearly variable specific heat ratio of working fluid. International Journal of Heat and Mass Transfer, 2018, 124, 46-57.	4.8	24
148	Performance of Quantum Stirling heat engine with numerous copies of extreme relativistic particles confined in 1D potential well. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 58-70.	2.6	20
149	Thermodynamic performance of Dual-Miller cycle (DMC) with polytropic processes based on power output, thermal efficiency and ecological function. Science China Technological Sciences, 2018, 61, 453-463.	4.0	28
150	Entropy generation minimization for isothermal crystallization processes with a generalized mass diffusion law. International Journal of Heat and Mass Transfer, 2018, 116, 1-8.	4.8	35
151	Performance analysis and optimization for generalized quantum Stirling refrigeration cycle with working substance of a particle confined in a general 1D potential. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 57-63.	2.7	10
152	Burdening proportion and new energy-saving technologies analysis and optimization for iron and steel production system. Journal of Cleaner Production, 2018, 172, 2153-2166.	9.3	31
153	Ecological Optimization for an Endoreversible Chemical Pump With Three Mass Reservoirs. , 2018, , .		0
154	Constructal Optimization for Cooling a Non-Uniform Heat Generating Radial-Pattern Disc by Conduction. Entropy, 2018, 20, 685.	2.2	16
155	Thermodynamic Analysis of an Irreversible Maisotsenko Reciprocating Brayton Cycle. Entropy, 2018, 20, 167.	2.2	19
156	Local stability of a generalized irreversible heat engine with linear phenomenological heat transfer law working in an ecological regime. Thermal Science and Engineering Progress, 2018, 8, 537-541.	2.7	5
157	Optimal Performance Characteristics of Subcritical Simple Irreversible Organic Rankine Cycle. Journal of Thermal Science, 2018, 27, 555-562.	1.9	27
158	Constructal Design of a Converter Steelmaking Procedure Based on Multi-objective Optimization. Arabian Journal for Science and Engineering, 2018, 43, 5003-5015.	3.0	5
159	Thermodynamic analyses and optimizations of extraction process of CO <sub>2</sub> from acidic seawater by using hollow fiber membrane contactor. International Journal of Heat and Mass Transfer, 2018, 124, 1310-1320.	4.8	25
160	Constructal heat conduction optimization: Progresses with entransy dissipation rate minimization. Thermal Science and Engineering Progress, 2018, 7, 155-163.	2.7	22
161	Influences of external heat transfer and Thomson effect on the performance of TEG-TEC combined thermoelectric device. Science China Technological Sciences, 2018, 61, 1600-1610.	4.0	25
162	Influences of the Thomson Effect on the Performance of a Thermoelectric Generator-Driven Thermoelectric Heat Pump Combined Device. Entropy, 2018, 20, 29.	2.2	30

#	ARTICLE	IF	CITATIONS
163	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, 74.	2.2	31
164	Thermodynamic Optimization for an Endoreversible Dual-Miller Cycle (DMC) with Finite Speed of Piston. <i>Entropy</i> , 2018, 20, 165.	2.2	24
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