

Lingen Chen

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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	Finite Time Thermodynamic Optimization or Entropy Generation Minimization of Energy Systems. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1999 , 24,	3.8	500
553	Progress in study on constructal theory and its applications. <i>Science China Technological Sciences</i> , 2012 , 55, 802-820	3.5	199
552	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
551	A numerical model and comparative investigation of a thermoelectric generator with multi-irreversibilities. <i>Energy</i> , 2011 , 36, 3513-3522	7.9	127
550	Performance optimization of a two-stage semiconductor thermoelectric-generator. <i>Applied Energy</i> , 2005 , 82, 300-312	10.7	118
549	Solar and ground source heat-pump system. <i>Applied Energy</i> , 2004 , 78, 231-245	10.7	114
548	Progress in Finite Time Thermodynamic Studies for Internal Combustion Engine Cycles. <i>Entropy</i> , 2016 , 18, 139	2.8	113
547	Comprehensive exergy analysis of a ground-source heat pump system for both building heating and cooling modes. <i>Applied Energy</i> , 2009 , 86, 2560-2565	10.7	111
546	Thermodynamic analyses and optimization for thermoelectric devices: The state of the arts. <i>Science China Technological Sciences</i> , 2016 , 59, 442-455	3.5	107
545	Power, efficiency, entropy-generation rate and ecological optimization for a class of generalized irreversible universal heat-engine cycles. <i>Applied Energy</i> , 2007 , 84, 512-525	10.7	107
544	Effect of heat transfer law on the performance of a generalized irreversible Carnot engine. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 99-105	3	101
543	Effect of heat transfer on the performance of thermoelectric generators. <i>International Journal of Thermal Sciences</i> , 2002 , 41, 95-99	4.1	100
542	Generalized Thermodynamic Optimization for Iron and Steel Production Processes: Theoretical Exploration and Application Cases. <i>Entropy</i> , 2016 , 18, 353	2.8	99
541	Progress in entransy theory and its applications. <i>Science Bulletin</i> , 2012 , 57, 4404-4426		96
540	Finite-time thermodynamic modelling and analysis of an irreversible Otto-cycle. <i>Applied Energy</i> , 2008 , 85, 618-624	10.7	91
539	The area-point constructal optimization for discrete variable cross-section conducting path. <i>Applied Energy</i> , 2009 , 86, 1111-1118	10.7	85
538	Ecological optimization for generalized irreversible Carnot engines. <i>Applied Energy</i> , 2004 , 77, 327-338	10.7	82

537	Thermodynamic simulation of performance of an Otto cycle with heat transfer and variable specific heats of working fluid. <i>International Journal of Thermal Sciences</i> , 2005 , 44, 506-511	4.1	82
536	Thermodynamic optimization opportunities for the recovery and utilization of residual energy and heat in China's iron and steel industry: A case study. <i>Applied Thermal Engineering</i> , 2015 , 86, 151-160	5.8	81
535	Constructal entransy dissipation minimization for volume-point heat conduction. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 195506	3	81
534	Theoretical analysis of the performance of a regenerative closed Brayton cycle with internal irreversibilities. <i>Energy Conversion and Management</i> , 1997 , 38, 871-877	10.6	80
533	Heat transfer effects on the net work output and efficiency characteristics for an air-standard Otto cycle. <i>Energy Conversion and Management</i> , 1998 , 39, 643-648	10.6	80
532	Optimization for entransy dissipation minimization in heat exchanger. <i>Science Bulletin</i> , 2009 , 54, 3587-3596	5.6	79
531	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
530	Constructal entransy dissipation rate minimization of a disc. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 210-216	4.9	78
529	Efficiency of an Atkinson engine at maximum power density. <i>Energy Conversion and Management</i> , 1998 , 39, 337-341	10.6	74
528	Thermoelectric power generation driven by blast furnace slag flushing water. <i>Energy</i> , 2014 , 66, 965-972	7.9	72
527	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
526	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
525	Optimum performance of irreversible stirling engine with imperfect regeneration. <i>Energy Conversion and Management</i> , 1998 , 39, 727-732	10.6	71
524	Effects of heat transfer, friction and variable specific heats of working fluid on performance of an irreversible dual cycle. <i>Energy Conversion and Management</i> , 2006 , 47, 3224-3234	10.6	71
523	Ecological optimization for generalized irreversible Carnot refrigerators. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 113-118	3	68
522	Performance of a regenerative Brayton heat engine. <i>Energy</i> , 1996 , 21, 71-76	7.9	67
521	On the Area to point-Flow problem based on constructal theory. <i>Energy Conversion and Management</i> , 2007 , 48, 101-105	10.6	66
520	Finite-time thermodynamic performance of a Dual cycle. <i>International Journal of Energy Research</i> , 1999 , 23, 765-772	4.5	66

519	Exergy-based ecological optimization for a generalized irreversible Carnot heat-pump. <i>Applied Energy</i> , 2007 , 84, 78-88	10.7	64
518	Reciprocating heat-engine cycles. <i>Applied Energy</i> , 2005 , 81, 397-408	10.7	63
517	Neural-network based analysis and prediction of a compressor's characteristic performance map. <i>Applied Energy</i> , 2007 , 84, 48-55	10.7	62
516	Optimization of constructal volume-point conduction with variable cross section conducting path. <i>Energy Conversion and Management</i> , 2007 , 48, 106-111	10.6	61
515	Generalized model and optimum performance of an irreversible quantum Brayton engine with spin systems. <i>Physical Review E</i> , 2006 , 73, 016103	2.4	60
514	Constructal optimization on T-shaped cavity based on entransy dissipation minimization. <i>Science Bulletin</i> , 2009 , 54, 4418-4427	10.6	59
513	Optimal performance of an irreversible dual-cycle. <i>Applied Energy</i> , 2004 , 79, 3-14	10.7	59
512	Finite-time exergoeconomic performance bound for a quantum Stirling engine. <i>International Journal of Engineering Science</i> , 2000 , 38, 239-247	5.7	59
511	Progress in optimization of mass transfer processes based on mass entransy dissipation extremum principle. <i>Science China Technological Sciences</i> , 2014 , 57, 2305-2327	3.5	58
510	Finite-time thermodynamic modeling and analysis for an irreversible Dual cycle. <i>Mathematical and Computer Modelling</i> , 2009 , 50, 101-108		58
509	Entransy dissipation minimization for liquid-solid phase change processes. <i>Science China Technological Sciences</i> , 2010 , 53, 960-968	3.5	58
508	Heat-transfer effects on net work and/or power as functions of efficiency for air-standard diesel cycles. <i>Energy</i> , 1996 , 21, 1201-1205	7.9	58
507	Constructal optimization for geometry of cavity by taking entransy dissipation minimization as objective. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 3504-3513		57
506	Cooling load versus COP characteristics for an irreversible air refrigeration cycle. <i>Energy Conversion and Management</i> , 1998 , 39, 117-125	10.6	57
505	Performance optimization for a two-stage thermoelectric heat-pump with internal and external irreversibilities. <i>Applied Energy</i> , 2008 , 85, 641-649	10.7	57
504	Optimum allocation of heat transfer surface area for cooling load and COP optimization of a thermoelectric refrigerator. <i>Energy Conversion and Management</i> , 2003 , 44, 3197-3206	10.6	57
503	Modeling and performance analysis of a two-stage thermoelectric energy harvesting system from blast furnace slag water waste heat. <i>Energy</i> , 2014 , 77, 562-569	7.9	56
502	Multi-disciplinary, multi-objective and multi-scale constructal optimizations for heat and mass transfer processes performed in Naval University of Engineering, a review. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 86-98	4.9	56

501	Effects of heat transfer and friction on the performance of an irreversible air-standard miller cycle. <i>International Communications in Heat and Mass Transfer</i> , 2005 , 32, 1045-1056	5.8	56
500	Optimization of steady flow heat pumps. <i>Energy Conversion and Management</i> , 1998 , 39, 445-453	10.6	55
499	Volume-Point heat conduction constructal optimization with entransy dissipation minimization objective based on rectangular element. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 1283-1295		55
498	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
497	Thermoelectric generator for industrial gas phase waste heat recovery. <i>Energy</i> , 2017 , 135, 83-90	7.9	54
496	Constructal entransy dissipation rate minimization for disc-to-point heat conduction. <i>Science Bulletin</i> , 2011 , 56, 102-112		54
495	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
494	Ground heat exchanger temperature distribution analysis and experimental verification. <i>Applied Thermal Engineering</i> , 2002 , 22, 183-189	5.8	53
493	Performance optimization for two-stage thermoelectric refrigerator system driven by two-stage thermoelectric generator. <i>Cryogenics</i> , 2009 , 49, 57-65	1.8	52
492	The universal power and efficiency characteristics for irreversible reciprocating heat engine cycles. <i>European Journal of Physics</i> , 2003 , 24, 359-366	0.8	52
491	Entropy generation minimization for CO ₂ hydrogenation to light olefins. <i>Energy</i> , 2018 , 147, 187-196	7.9	51
490	Geometry optimization of T-shaped cavities according to constructal theory. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 1538-1546		51
489	Performance of an irreversible quantum Carnot engine with spin 12. <i>Journal of Chemical Physics</i> , 2006 , 124, 214702	3.9	51
488	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
487	Constructal entropy generation rate minimization for cylindrical pin-fin heat sinks. <i>International Journal of Thermal Sciences</i> , 2017 , 111, 168-174	4.1	50
486	A generalized model of a real refrigerator and its performance. <i>Applied Thermal Engineering</i> , 1997 , 17, 401-412	5.8	50
485	Power optimization of open-cycle regenerator gas-turbine power-plants. <i>Applied Energy</i> , 2004 , 78, 199-218	10.7	50
484	Optimum distribution of heat exchanger inventory for power density optimization of an endoreversible closed Brayton cycle. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 422-427	3	50

483	Constructal optimization for disc-point heat conduction at micro and nanoscales. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 704-711	4.9	49
482	Optimal paths for minimizing entransy dissipation during heat transfer processes with generalized radiative heat transfer law. <i>Applied Mathematical Modelling</i> , 2010 , 34, 2242-2255	4.5	49
481	Volume-point heat conduction constructal optimization based on entransy dissipation rate minimization with three-dimensional cylindrical element and rectangular and triangular elements on microscale and nanoscale. <i>Science China Technological Sciences</i> , 2012 , 55, 779-794	3.5	47
480	Performance of an Atkinson cycle with heat transfer, friction and variable specific-heats of the working fluid. <i>Applied Energy</i> , 2006 , 83, 1210-1221	10.7	47
479	Exergy loss minimization for a blast furnace with comparative analyses for energy flows and exergy flows. <i>Energy</i> , 2015 , 93, 10-19	7.9	46
478	Constructal optimization for disc-to-point heat conduction without the premise of optimized last-order construct. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 1031-1036	4.1	46
477	Constructal optimization of twice Y-shaped assemblies of fins by taking maximum thermal resistance minimization as objective. <i>Science China Technological Sciences</i> , 2010 , 53, 2756-2764	3.5	46
476	Optimal allocation of heat-exchanger area for refrigeration and air-conditioning plants. <i>Applied Energy</i> , 2004 , 77, 339-354	10.7	46
475	Friction effect on the characteristic performance of Diesel engines. <i>International Journal of Energy Research</i> , 2002 , 26, 965-971	4.5	46
474	Optimization of the specific rate of refrigeration in combined refrigeration cycles. <i>Energy</i> , 1995 , 20, 1049-1053	7.0	46
473	Optimal expansion of a heated working fluid with phenomenological heat transfer. <i>Energy Conversion and Management</i> , 1998 , 39, 149-156	10.6	45
472	Power optimization of an irreversible closed intercooled regenerated brayton cycle coupled to variable-temperature heat reservoirs. <i>Applied Thermal Engineering</i> , 2005 , 25, 1097-1113	5.8	45
471	Constructal entransy dissipation minimisation for 'volume-point' heat conduction without the premise of optimised last-order construct. <i>International Journal of Exergy</i> , 2010 , 7, 627	1.2	44
470	Constructal optimization of a sinter cooling process based on exergy output maximization. <i>Applied Thermal Engineering</i> , 2016 , 96, 161-166	5.8	43
469	Performance characteristic of isothermal chemical engines. <i>Energy Conversion and Management</i> , 1997 , 38, 1841-1846	10.6	43
468	Exergy-based ecological optimization of linear phenomenological heat-transfer law irreversible Carnot-engines. <i>Applied Energy</i> , 2006 , 83, 573-582	10.7	43
467	The effects of variable specific heats of working fluid on the performance of an irreversible Otto cycle. <i>International Journal of Exergy</i> , 2005 , 2, 274	1.2	43
466	Performance comparison of an endoreversible closed variable temperature heat reservoir Brayton cycle under maximum power density and maximum power conditions. <i>Energy Conversion and Management</i> , 2002 , 43, 33-43	10.6	43

465	Power and efficiency optimization for combined Brayton and inverse Brayton cycles. <i>Applied Thermal Engineering</i> , 2009 , 29, 2885-2894	5.8	42
464	Effect ZOF heat transfer law on finite-time exergoeconomic performance of carnot heat pump. <i>Energy Conversion and Management</i> , 1998 , 39, 579-588	10.6	42
463	Heat-conduction optimization based on constructal theory. <i>Applied Energy</i> , 2007 , 84, 39-47	10.7	42
462	Generalized irreversible heat-engine experiencing a complex heat-transfer law. <i>Applied Energy</i> , 2008 , 85, 52-60	10.7	42
461	Performance of chemical engines with a mass leak. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 1595-1600		42
460	Effect of heat transfer on the performance of thermoelectric generator-driven thermoelectric refrigerator system. <i>Cryogenics</i> , 2012 , 52, 58-65	1.8	41
459	Ecological optimization of an irreversible harmonic oscillators Carnot heat engine 2009 , 52, 1976-1988		41
458	Influences of additives on the gas hydrate cool storage process in a new gas hydrate cool storage system. <i>Energy Conversion and Management</i> , 2006 , 47, 2974-2982	10.6	41
457	Performance analysis for a real closed regenerated Brayton cycle via methods of finite-time thermodynamics. <i>International Journal of Ambient Energy</i> , 1999 , 20, 95-104	2	41
456	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
455	Quantum degeneracy effect on performance of irreversible Otto cycle with ideal Bose gas. <i>Energy Conversion and Management</i> , 2006 , 47, 3008-3018	10.6	40
454	Optimal paths for minimizing entropy generation during heat transfer processes with a generalized heat transfer law. <i>Journal of Applied Physics</i> , 2009 , 105, 044907	2.5	39
453	Constructal optimization of discrete and continuous-variable cross-section conducting path based on entransy dissipation rate minimization. <i>Science China Technological Sciences</i> , 2010 , 53, 1666-1677	3.5	39
452	Optimal performance of an endoreversible Carnot heat pump. <i>Energy Conversion and Management</i> , 1997 , 38, 1439-1443	10.6	39
451	Ecological Optimization Performance of An Irreversible Quantum Otto Cycle Working with an Ideal Fermi Gas. <i>Open Systems and Information Dynamics</i> , 2006 , 13, 55-66	0.4	39
450	Performance analysis for an irreversible variable temperature heat reservoir closed intercooled regenerated Brayton cycle. <i>Energy Conversion and Management</i> , 2003 , 44, 2713-2732	10.6	39
449	Thermoelectric-generator with linear phenomenological heat-transfer law. <i>Applied Energy</i> , 2005 , 81, 358-364	10.7	39
448	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

447	Constructal entropy generation minimization for heat and mass transfer in a solid-gas reactor based on triangular element. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 3545-3550	3	38
446	Effect of the heat transfer law on the finite-time, exergoeconomic performance of heat engines. <i>Energy</i> , 1996 , 21, 1127-1134	7.9	38
445	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
444	Thermal efficiency maximization for H- and X-shaped heat exchangers based on constructal theory. <i>Applied Thermal Engineering</i> , 2015 , 91, 456-462	5.8	37
443	Generalized constructal optimization for solidification heat transfer process of slab continuous casting based on heat loss rate. <i>Energy</i> , 2014 , 66, 991-998	7.9	37
442	Constructal multidisciplinary optimization of electromagnet based on entransy dissipation minimization. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 2981-2989		37
441	Constructal entransy dissipation rate and flow-resistance minimizations for cooling channels. <i>Science China Technological Sciences</i> , 2010 , 53, 2458-2468	3.5	37
440	Irreversible four-temperature-level absorption refrigerator. <i>Solar Energy</i> , 2006 , 80, 347-360	6.8	37
439	Optimal configuration and performance for a generalized Carnot cycle assuming the heat-transfer law $Q \propto T^m$. <i>Applied Energy</i> , 2004 , 78, 305-313	10.7	37
438	The effect of friction on the performance of an air standard dual cycle. <i>Exergy an International Journal</i> , 2002 , 2, 340-344		37
437	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
436	Constructal entransy dissipation rate minimization for triangular heat trees at micro and nanoscales. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 84, 848-855	4.9	36
435	Constructal design of a blast furnace iron-making process based on multi-objective optimization. <i>Energy</i> , 2016 , 109, 137-151	7.9	36
434	Constructal entransy dissipation minimization of an electromagnet. <i>Journal of Applied Physics</i> , 2009 , 105, 094906	2.5	36
433	Entropy generation minimization for charging and discharging processes in a gas-hydrate cool storage system. <i>Applied Energy</i> , 2010 , 87, 1149-1157	10.7	36
432	Performance of heat-transfer irreversible regenerated Brayton refrigerators. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 830-837	3	36
431	Performance optimization of a class of combined thermoelectric heating devices. <i>Science China Technological Sciences</i> , 2020 , 63, 2640-2648	3.5	36
430	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

429	Thermodynamic analysis and optimization of an air Brayton cycle for recovering waste heat of blast furnace slag. <i>Applied Thermal Engineering</i> , 2015 , 90, 742-748	5.8	35
428	Constructal optimization for a single tubular solid oxide fuel cell. <i>Journal of Power Sources</i> , 2015 , 286, 406-413	8.9	35
427	Constructal design for H-shaped high conductivity pathways over a square body. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 162-169	4.9	35
426	Power and efficiency optimizations of an irreversible regenerative organic Rankine cycle. <i>Energy Conversion and Management</i> , 2020 , 220, 113079	10.6	35
425	Improvement of tree-like network constructal method for heat conduction optimization. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 332-341		35
424	Effect of heat transfer on the performance of two-stage semiconductor thermoelectric refrigerators. <i>Journal of Applied Physics</i> , 2005 , 98, 034507	2.5	35
423	Constructal design for supercharged boiler superheater. <i>Energy</i> , 2020 , 191, 116484	7.9	35
422	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
421	Disc-point heat and mass transfer constructal optimization for solid-gas reactors based on entropy generation minimization. <i>Energy</i> , 2015 , 83, 431-437	7.9	34
420	Analysis and optimization with ecological objective function of irreversible single resonance energy selective electron heat engines. <i>Energy</i> , 2016 , 111, 306-312	7.9	34
419	Constructal entransy dissipation rate minimization for variable cross-section insulation layer of the steel rolling reheating furnace wall. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 52, 26-32	5.8	34
418	Constructal entransy dissipation rate minimization for leaf-like fins. <i>Science China Technological Sciences</i> , 2012 , 55, 515-526	3.5	34
417	Constructal optimization for H-shaped multi-scale heat exchanger based on entransy theory. <i>Science China Technological Sciences</i> , 2013 , 56, 299-307	3.5	34
416	Thermal insulation constructal optimization for steel rolling reheating furnace wall based on entransy dissipation extremum principle. <i>Science China Technological Sciences</i> , 2012 , 55, 3322-3333	3.5	34
415	Constructal entransy dissipation rate minimization for umbrella-shaped assembly of cylindrical fins. <i>Science China Technological Sciences</i> , 2011 , 54, 211-219	3.5	34
414	Constructal entransy dissipation rate minimization for heat conduction based on a tapered element. <i>Science Bulletin</i> , 2011 , 56, 2400-2410		34
413	Ecological optimization of energy selective electron (ESE) heat engine. <i>Applied Mathematical Modelling</i> , 2011 , 35, 276-284	4.5	34
412	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

411	Thermodynamic performance optimization for an irreversible vacuum thermionic generator. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	33
410	Influence of internal heat leak on the power versus efficiency characteristics of heat engines. <i>Energy Conversion and Management</i> , 1997 , 38, 1501-1507	10.6	33
409	Irreversible absorption heat-pump and its optimal performance. <i>Applied Energy</i> , 2005 , 81, 55-71	10.7	33
408	Power optimization of an endoreversible closed intercooled regenerated Brayton cycle. <i>International Journal of Thermal Sciences</i> , 2005 , 44, 89-94	4.1	33
407	Heat transfer effect on the specific cooling load of refrigerators. <i>Applied Thermal Engineering</i> , 1996 , 16, 989-997	5.8	33
406	Maximum production rate optimization for sulphuric acid decomposition process in tubular plug-flow reactor. <i>Energy</i> , 2016 , 99, 152-158	7.9	32
405	Entropy Generation Minimization for Reverse Water Gas Shift (RWGS) Reactors. <i>Entropy</i> , 2018 , 20,	2.8	32
404	Constructal entransy optimizations for insulation layer of steel rolling reheating furnace wall with convective and radiative boundary conditions. <i>Science Bulletin</i> , 2014 , 59, 2470-2477		32
403	Constructal design for an iron and steel production process based on the objectives of steel yield and useful energy. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 1192-1205	4.9	32
402	T-shaped assembly of fins with constructal entransy dissipation rate minimization. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 1556-1562	5.8	32
401	Constructal entransy dissipation minimization of round tube heat exchanger cross-section. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 1285-1292	4.1	32
400	Performance analysis for two-stage TEC system driven by two-stage TEG obeying Newton's heat transfer law. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 586-595		32
399	Heat transfer effect on the specific heating load of heat pumps. <i>Applied Thermal Engineering</i> , 1997 , 17, 103-110	5.8	32
398	Closed intercooled regenerator Brayton-cycle with constant-temperature heat-reservoirs. <i>Applied Energy</i> , 2004 , 77, 429-446	10.7	32
397	Constructal design for blast furnace wall based on the entransy theory. <i>Applied Thermal Engineering</i> , 2016 , 100, 798-804	5.8	32
396	Optimal power and efficiency of quantum Stirling heat engines. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	31
395	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
394	Constructal entransy dissipation rate minimization for tree-shaped assembly of fins. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 506-513	4.9	31

393	Ecological optimization of an irreversible quantum Carnot heat engine with spin-1/2 systems. <i>Physica Scripta</i> , 2010 , 81, 025003	2.6	31
392	Optimal configuration for a finite high-temperature source heat engine cycle with the complex heat transfer law 2009 , 52, 587-592		31
391	The optimal path of piston motion for Otto cycle with linear phenomenological heat transfer law 2009 , 52, 708-719		31
390	Effect of heat transfer law on the finite-time exergoeconomic performance of a Carnot refrigerator. <i>Exergy an International Journal</i> , 2001 , 1, 295-302		31
389	Optimisation of steady flow refrigeration cycles. <i>International Journal of Ambient Energy</i> , 1996 , 17, 199-206		31
388	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
387	Constructal design progress for eight types of heat sinks. <i>Science China Technological Sciences</i> , 2020 , 63, 879-911	3.5	30
386	Multiobjective constructal optimization of an insulating wall combining heat flow, strength and weight. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 1782-1789	4.1	30
385	Endoreversible heat-engines for maximum power-output with fixed duration and radiative heat-transfer law. <i>Applied Energy</i> , 2007 , 84, 374-388	10.7	30
384	Optimal configuration of a class of endoreversible heat engines with linear phenomenological heat transfer law [q(T)]. <i>Journal of Applied Physics</i> , 2006 , 100, 124907	2.5	30
383	The influence of nonlinear flow resistance relations on the power and efficiency from fluid flow. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 1346-1349	3	30
382	Four-Objective Optimization of Irreversible Atkinson Cycle Based on NSGA-II. <i>Entropy</i> , 2020 , 22,	2.8	30
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