

S C Kaushik

List of Publications by Year in descending order

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119
papers

1,754
citations

279701

23
h-index

377752

34
g-index

119
all docs

119
docs citations

119
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical analysis of LiBr/H ₂ O absorption refrigeration systems. International Journal of Energy Research, 2009, 33, 1321-1340.	2.2	93
2	Thermal performance evaluation of a solar air heater with and without thermal energy storage. Journal of Thermal Analysis and Calorimetry, 2012, 107, 1345-1352.	2.0	85
3	Ecological optimization and performance study of irreversible Stirling and Ericsson heat engines. Journal Physics D: Applied Physics, 2002, 35, 2668-2675.	1.3	71
4	Estimation of chemical exergy of solid, liquid and gaseous fuels used in thermal power plants. Journal of Thermal Analysis and Calorimetry, 2014, 115, 903-908.	2.0	55
5	Exergetic utilization of solar energy for feed water preheating in a conventional thermal power plant. International Journal of Energy Research, 2009, 33, 593-604.	2.2	50
6	Exergetic analysis of a vapour compression refrigeration system with R134a, R143a, R152a, R404A, R407C, R410A, R502 and R507A. Clean Technologies and Environmental Policy, 2012, 14, 47-53.	2.1	50
7	Interaction of intense laser beams with plasma waves: Stimulated Raman scattering. Journal of Applied Physics, 1976, 47, 3518-3523.	1.1	44
8	A review on optimization techniques for sizing of solar-wind hybrid energy systems. International Journal of Green Energy, 2016, 13, 1564-1578.	2.1	40
9	Ecological optimization and parametric study of irreversible Stirling and Ericsson heat pumps. Journal Physics D: Applied Physics, 2002, 35, 2058-2065.	1.3	39
10	Physics of shallow solar pond water heater. International Journal of Energy Research, 1980, 4, 323-337.	2.2	37
11	Optimum exergy efficiency of single-effect ideal passive solar stills. Energy Efficiency, 2013, 6, 595-606.	1.3	35
12	Exergy analysis of the active solar distillation systems integrated with solar ponds. Clean Technologies and Environmental Policy, 2014, 16, 791-805.	2.1	35
13	A novel technique to enhance thermal performance of a thermoelectric cooler using phase-change materials. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1003-1014.	2.0	34
14	Performance Analysis and Optimization of Concentrating Solar Thermoelectric Generator. Journal of Electronic Materials, 2018, 47, 5310-5320.	1.0	33
15	Finite time thermodynamic analysis of an irreversible regenerative closed cycle brayton heat engine. International Journal of Solar Energy, 2002, 22, 141-151.	0.2	32
16	Generation of plasma waves by Gaussian laser beam and stimulated Raman scattering. Plasma Physics, 1976, 18, 879-888.	0.9	31
17	Plasma wave and second harmonic generation. Plasma Physics, 1978, 20, 825-835.	0.9	31
18	Experimental investigation of energy and exergy efficiencies of domestic size parabolic dish solar cooker. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	31

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19	Ecological optimisation of an irreversible regenerative intercooled Brayton heat engine with direct heat loss. International Journal of Ambient Energy, 2005, 26, 81-92.	1.4	28
20	Thermal performance evaluation of direct flow solar water heating system using exergetic approach. Journal of Thermal Analysis and Calorimetry, 2015, 121, 1365-1373.	2.0	28
21	Exergetic analysis and performance evaluation of parabolic dish Stirling engine solar power plant. International Journal of Energy Research, 2013, 37, 1287-1301.	2.2	25
22	VARIABLES INFLUENCING THE EXERGY BASED PERFORMANCE OF A STEAM POWER PLANT. International Journal of Green Energy, 2013, 10, 257-284.	2.1	25
23	Solar thermal modelling of a non-airconditioned building: Evaluation of overall heat flux. International Journal of Energy Research, 1982, 6, 143-160.	2.2	23
24	Exergetic analysis of solar concentrator aided coal fired super critical thermal power plant (SACSCTPT). Clean Technologies and Environmental Policy, 2013, 15, 133-145.	2.1	23
25	Ecological optimization of an irreversible Ericsson cryogenic refrigerator cycle. International Journal of Energy Research, 2005, 29, 1191-1204.	2.2	22
26	A comparative study of an absorber heat recovery cycle for solar refrigeration using NH ₃ -refrigerant with liquid/solid absorbents. International Journal of Energy Research, 1987, 11, 123-132.	2.2	20
27	Multi-objective thermodynamic optimization of solar parabolic dish stirling heat engine with regenerative losses using NSGA-II and decision making. Applied Solar Energy (English Translation of) Tj ETQq1 1 0.784314 rg35 /Overl	2.2	20
28	Review of heat transport properties of solar heat transfer fluids. Journal of Thermal Analysis and Calorimetry, 2017, 130, 605-621.	2.0	19
29	Excitation of a plasma wave by two coaxial Gaussian EM beams. Journal of Applied Physics, 1979, 50, 158-164.	1.1	18
30	Experimental investigation of energy and exergy efficiency of masonry-type solar cooker for animal feed. International Journal of Sustainable Energy, 2010, 29, 178-184.	1.3	18
31	Energy and exergy analyses of a two-stage vapour compression refrigeration system. International Journal of Energy Research, 2010, 34, 907-923.	2.2	17
32	Exergetic analysis and evaluation of coal-fired supercritical thermal power plant and natural gas-fired combined cycle power plant. Clean Technologies and Environmental Policy, 2014, 16, 489-499.	2.1	17
33	Cost-benefit and systems analysis of passively ventilated solar greenhouses for food production in arid and semi-arid regions. Environment Systems and Decisions, 2014, 34, 160-167.	1.9	17
34	Performance optimization of Brayton heat engine at maximum efficient power using temperature dependent specific heat of working fluid. Journal of Thermal Engineering, 2015, 1, 345.	0.8	17
35	Self-focusing of a laser beam in an inhomogeneous plasma. Plasma Physics, 1979, 21, 1-12.	0.9	16
36	Experimental Validation of Theoretical Studies on Open and Forced Flow Solar Regenerator. International Journal of Solar Energy, 1986, 4, 13-23.	0.2	16

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37	EXERGOCHEMICAL EVALUATION OF A SOLAR THERMAL POWER PLANT. International Journal of Solar Energy, 2001, 21, 293-314.	0.2	16
38	Transient Thermal Behavior of Annular Thermoelectric Cooling System. Journal of Electronic Materials, 2017, 46, 2560-2569.	1.0	16
39	Solar adsorption cooling system: An overview. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	15
40	Economic feasibility evaluation of solar distillation systems based on the equivalent cost of environmental degradation and high-grade energy savings. International Journal of Low-Carbon Technologies, 0, , ctt048.	1.2	15
41	Exergetic analysis and economic evaluation of central tower receiver solar thermal power plant. International Journal of Energy Research, 2014, 38, 1288-1303.	2.2	15
42	THE SECOND LAW ANALYSIS OF AN UNBALANCED CONSTRUCTAL HEAT EXCHANGER. International Journal of Green Energy, 2014, 11, 173-192.	2.1	15
43	Energy, exergy, environment and economic analyses and optimization of two-stage absorption-compression combined refrigeration system. Clean Technologies and Environmental Policy, 2017, 19, 2215-2229.	2.1	15
44	Theoretical and Experimental Investigations on Solar Photovoltaic Driven Thermoelectric Cooler System for Cold Storage Application. International Journal of Environmental Science and Development, 2016, 7, 615-620.	0.2	15
45	The performance characteristics of an irreversible regenerative intercooled Brayton cycle at maximum thermoeconomic function. International Journal of Ambient Energy, 2005, 26, 155-168.	1.4	14
46	Suitability Assessment and Experimental Characterization of Phase Change Materials for Energy Conservation in Indian Buildings. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, .	1.1	14
47	Power optimization of an irreversible regenerative Brayton cycle with isothermal heat addition. Journal of Thermal Engineering, 2015, 1, 279.	0.8	14
48	Growth of a Gaussian ripple on a uniform plane wave front in plasmas. Journal of Applied Physics, 1979, 50, 6214-6221.	1.1	13
49	Thermodynamic evaluation of heat recovery through a Canopus heat exchanger for vapor compression refrigeration (VCR) system. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1493-1499.	2.0	13
50	Multi-objective optimization of solar powered ericsson cycle using genetic algorithm and fuzzy decision making. , 2015, , .		13
51	Performance Prediction and Assessment of Energy Conservation Potential for a Light Pipe System in Indian Composite Climate of New Delhi. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.1	13
52	Nano-enhanced PCMs for low-temperature thermal energy storage systems and passive conditioning applications. Clean Technologies and Environmental Policy, 2021, 23, 1161-1168.	2.1	13
53	Theoretical analysis of ammonia-water absorption cycles for refrigeration and space conditioning systems. International Journal of Energy Research, 1982, 6, 205-225.	2.2	12
54	Solar adsorption refrigeration system using different mass of adsorbents. Journal of Thermal Analysis and Calorimetry, 2013, 111, 897-903.	2.0	12

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55	Energy and Exergy Analysis of an Annular Thermoelectric Heat Pump. Journal of Electronic Materials, 2016, 45, 3400-3409.	1.0	12
56	Effect of Hydrogen Enrichment Strategy on Performance and Emission Features of Biodiesel-Biogas Dual Fuel Engine Using Simulation and Experimental Analyses. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	12
57	Experimental Assessment of Characterised PCMs for Thermal Management of Buildings in Tropical Composite Climate. , 0, , .		11
58	Steady state and transient self-interaction of a laser beam in a strongly ionized moving plasma. Applied Physics Berlin, 1975, 7, 187-193.	1.4	10
59	Performance of an inexpensive constant flow solar collector/storage system in ground. International Journal of Energy Research, 1979, 3, 379-387.	2.2	10
60	Analyses of single and double exposure solar air heaters. International Journal of Energy Research, 1980, 4, 69-79.	2.2	10
61	Performance evaluation of an irreversible Stirling heat engine cycle. International Journal of Ambient Energy, 2003, 24, 149-156.	1.4	10
62	The feasibility of air-conditioning by exhaust gas. International Journal of Ambient Energy, 1988, 9, 185-190.	1.4	9
63	Artificial neural network based computational model for the prediction of direct solar radiation in Indian zone. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	9
64	Energetic and exergetic analysis of three different solar cookers. Journal of Renewable and Sustainable Energy, 2013, 5, 023102.	0.8	9
65	Luminous efficacy model validation and computation of solar illuminance for different climates of India. Journal of Renewable and Sustainable Energy, 2013, 5, .	0.8	9
66	Short communication simple transient thermal model for solar collector/storage water heaters. International Journal of Energy Research, 1981, 5, 95-100.	2.2	8
67	Maximum power density analyses for an irreversible radiative heat engine. International Journal of Ambient Energy, 2005, 26, 71-80.	1.4	8
68	Multi-objective optimization of an irreversible regenerative Brayton cycle using genetic algorithm. , 2015, , .		8
69	Temporal growth of filamentation instability in plasmas. Journal of Applied Physics, 1978, 49, 599-602.	1.1	7
70	Periodic heat flux through a three layered slab. International Journal of Energy Research, 1980, 4, 93-96.	2.2	7
71	Thermal load levelling of heat flux through an insulated thermal storage water wall. International Journal of Energy Research, 1981, 5, 155-163.	2.2	7
72	Thermal modelling and parametric study of two stage absorption refrigeration and air-conditioning systems. International Journal of Energy Research, 1985, 9, 391-402.	2.2	7

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73	Performance evaluation of an earth air tunnel for space heating of a non air-conditioned building. International Journal of Ambient Energy, 1994, 15, 205-218.	1.4	7
74	Theoretical investigations on propagating and growing modes in a pair plasma having dust grains. Indian Journal of Physics, 2011, 85, 1887-1896.	0.9	7
75	Experimental investigation of convective heat transfer properties of synthetic fluid. Journal of Thermal Analysis and Calorimetry, 2018, 132, 709-724.	2.0	7
76	Self-focusing of electromagnetic waves in a degenerate electron-hole plasma. Applied Physics Berlin, 1974, 3, 141-148.	1.4	6
77	Effects of Several Major Irreversibilities on the Thermodynamic Performance of a Regenerative MHD Power Cycle. Journal of Energy Resources Technology, Transactions of the ASME, 2005, 127, 103-118.	1.4	6
78	Energetic and exergetic performance evaluation of natural circulation solar water heating systems. Applied Solar Energy (English Translation of Geliotekhnika), 2016, 52, 16-26.	0.2	6
79	Nonlinear scattering of a Gaussian laser beam from a turbulent plasma. Journal of Applied Physics, 1975, 46, 4697-4700.	1.1	5
80	Resonant excitation of the upper hybrid wave by two em beams. Journal of Applied Physics, 1979, 50, 1256-1262.	1.1	5
81	Feasibility of an open cycle absorption solar cooling system with solution storage for continuous operation. International Journal of Ambient Energy, 1991, 12, 101-106.	1.4	5
82	Energy conservation through hybrid air-conditioning cycles: computer modeling studies. International Journal of Ambient Energy, 1997, 18, 93-106.	1.4	5
83	EFFECT OF SOLAR COLLECTOR DESIGN PARAMETERS ON THE OPERATION OF SOLAR STIRLING POWER SYSTEM. International Journal of Energy Research, 1997, 21, 195-200.	2.2	5
84	Finite time optimisation of an irreversible vapour-absorption heat transformer system. International Journal of Ambient Energy, 2003, 24, 207-219.	1.4	5
85	A comparative performance analysis of an endoreversible heat engine with thermal reservoir of finite heat capacitance under maximum power density and maximum power conditions. International Journal of Ambient Energy, 2005, 26, 147-154.	1.4	5
86	Performance study of unglazed cylindrical solar collector for adsorption refrigeration system. Heat and Mass Transfer, 2013, 49, 1701-1709.	1.2	5
87	Earth's air tunnel heat exchanger for building space conditioning: a critical review. Nanomaterials and Energy, 2013, 2, 216-227.	0.1	5
88	Thermal modeling and experimental validation of solar tunnel dryer: a clean energy option for drying surgical cotton. International Journal of Low-Carbon Technologies, 0, , ctt053.	1.2	5
89	Thermal performance prediction and energy conservation potential of earth air tunnel heat exchanger for thermal comfort in building. Journal of Renewable and Sustainable Energy, 2014, 6, 013107.	0.8	5
90	Experimental study and analysis on novel thermo-electric cooler driven by solar photovoltaic system. Applied Solar Energy (English Translation of Geliotekhnika), 2016, 52, 205-210.	0.2	5

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91	Finite time thermodynamic optimisation of an irreversible heat pump system using the Lagrangian multiplier method. International Journal of Ambient Energy, 2001, 22, 105-112.	1.4	4
92	Optimal criteria for different parameters of an irreversible regenerative intercooled Brayton cycle under maximum power and maximum ecological COP conditions. International Journal of Ambient Energy, 2006, 27, 37-51.	1.4	4
93	Thermodynamic analysis and parametric study of an intercooled reheat closed-cycle gas turbine on the basis of a new isentropic exponent. International Journal of Sustainable Energy, 2011, 30, 82-97.	1.3	4
94	Effect of self-focusing on parametric back-scattering and absorptive instabilities in a plasma. Journal of Plasma Physics, 1977, 18, 551-561.	0.7	3
95	THEORETICAL EARTH TEMPERATURE PROFILES FOR DIFFERENT SOILS AND SOIL CONDITIONS. International Journal of Solar Energy, 1995, 17, 199-209.	0.2	3
96	Investigations on a complex Brayton cycle under maximum economic and maximum thermodynamic conditions. International Journal of Ambient Energy, 2007, 28, 151-163.	1.4	3
97	Review on PCM Application for Cooling Load Reduction in Indian Buildings. Energy, Environment, and Sustainability, 2020, , 247-275.	0.6	3
98	Application of discrete Fourier transform in solar thermal modelling of buildings. International Journal of Ambient Energy, 1993, 14, 29-34.	1.4	2
99	Energy saving through evaporatively cooled condenser air in conventional air-conditioning units. International Journal of Ambient Energy, 1994, 15, 78-86.	1.4	2
100	ECONOMIC EVALUATION OF SOLAR THERMAL POWER GENERATION: A CASE STUDY FOR INDIAN CONDITIONS. International Journal of Solar Energy, 1995, 18, 1-15.	0.2	2
101	Sensible thermal storage in rock beds for space conditioning: a state of the art study. International Journal of Ambient Energy, 1999, 20, 211-219.	1.4	2
102	Year round performance and economic evaluation of solar power plant for Indian tropical condition. Journal of Renewable and Sustainable Energy, 2012, 4, 043102.	0.8	2
103	Hybrid Absorption Cycles for Solar Cooling. Lecture Notes in Civil Engineering, 2020, , 223-239.	0.3	2
104	Desalination Using Waste Heat Recovery with Active Solar Still. Springer Proceedings in Energy, 2021, , 439-447.	0.2	2
105	Enhanced performance prediction of solar collector/storage water heaters with reflector systems: a comparative study. International Journal of Ambient Energy, 1995, 16, 33-48.	1.4	1
106	Analysis and performance evaluation of a cavity roof over a non air-conditioned building. International Journal of Ambient Energy, 1997, 18, 141-152.	1.4	1
107	Numerical analysis of a tubular solar collector with cusp reflectors. International Journal of Ambient Energy, 1999, 20, 149-158.	1.4	1
108	Second Law analysis of a Rankine heat engine with reheat and regenerative options for solar thermal power generation. International Journal of Ambient Energy, 2000, 21, 41-52.	1.4	1

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109	Effect of Condenser Fouling on Performance of Vapor Compression Refrigeration System. Journal of Thermodynamics, 2015, 2015, 1-8.	0.8	1
110	Comparative Study of Earth Air Tunnel and Borehole Heat Exchanger Applied for Building Space Conditioning. Lecture Notes in Civil Engineering, 2020, , 1-12.	0.3	1
111	Experimental and computational investigation of waste heat recovery from combustion device for household purposes. International Journal of Energy and Environmental Engineering, 2022, 13, 353-364.	1.3	1
112	Thomson scattering of EM pulses by random fluctuations in plasmas: Effect of self-focusing. Journal of Applied Physics, 1978, 49, 4383-4387.	1.1	0
113	Latent heat storage for solar energy systems: Transient simulation of refrigerant storage. International Journal of Energy Research, 1982, 6, 253-269.	2.2	0
114	Performance testing of a rotary bed solid desiccant dehumidifier. International Journal of Ambient Energy, 1990, 11, 211-218.	1.4	0
115	Performance and cost evaluation of solid desiccant solar cooling system. International Journal of Ambient Energy, 1990, 11, 149-156.	1.4	0
116	An entropic model of liquid vapour absorption cooling system: Second Law analysis. International Journal of Ambient Energy, 1996, 17, 101-109.	1.4	0
117	Optimisation of the thermoeconomic performance of a regenerative MHD power cycle affected by multi-irreversibilities. International Journal of Ambient Energy, 2005, 26, 191-202.	1.4	0
118	Parametric study of a closed cycle reheat gas turbine power plant based on the harmonic mean isentropic exponent. International Journal of Ambient Energy, 2009, 30, 83-94.	1.4	0
119	Designing a Concentrated Solar Thermal Power Plant Using Energyâ€“Exergyâ€“Economicâ€“Environment Analysis. Applied Solar Energy (English Translation of Geliotekhnika), 2020, 56, 477-489.	0.2	0