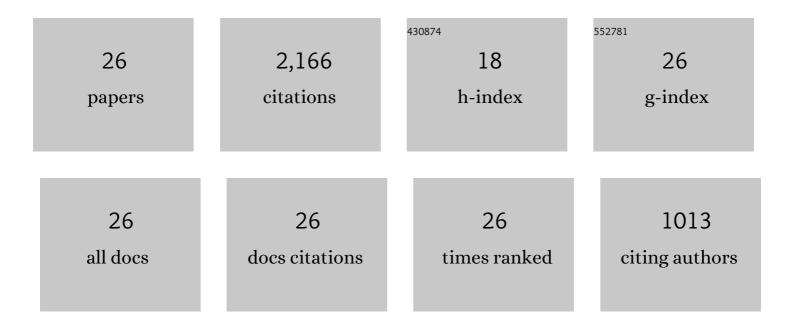
Kun Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The development technology and applications of supercritical CO2 power cycle in nuclear energy, solar energy and other energy industries. Applied Thermal Engineering, 2017, 126, 255-275.	6.0	301
2	Thermodynamic analysis and optimization of a molten salt solar power tower integrated with a recompression supercritical CO 2 Brayton cycle based on integrated modeling. Energy Conversion and Management, 2017, 135, 336-350.	9.2	267
3	Integration between supercritical CO 2 Brayton cycles and molten salt solar power towers: A review and a comprehensive comparison of different cycle layouts. Applied Energy, 2017, 195, 819-836.	10.1	252
4	Review of the solar flux distribution in concentrated solar power: Non-uniform features, challenges, and solutions. Applied Thermal Engineering, 2019, 149, 448-474.	6.0	211
5	Study on optical and thermal performance of a linear Fresnel solar reflector using molten salt as HTF with MCRT and FVM methods. Applied Energy, 2015, 146, 162-173.	10.1	152
6	A systematic comparison of different S-CO2 Brayton cycle layouts based on multi-objective optimization for applications in solar power tower plants. Applied Energy, 2018, 212, 109-121.	10.1	152
7	A design method and numerical study for a new type parabolic trough solar collector with uniform solar flux distribution. Science China Technological Sciences, 2014, 57, 531-540.	4.0	111
8	Geometric optimization on optical performance of parabolic trough solar collector systems using particle swarm optimization algorithm. Applied Energy, 2015, 148, 282-293.	10.1	106
9	Thermodynamic analysis and comparison for different direct-heated supercritical CO2 Brayton cycles integrated into a solar thermal power tower system. Energy, 2017, 140, 144-157.	8.8	95
10	Multi-objective optimization of the aiming strategy for the solar power tower with a cavity receiver by using the non-dominated sorting genetic algorithm. Applied Energy, 2017, 205, 399-416.	10.1	78
11	Thermodynamic performance analysis of different supercritical Brayton cycles using CO2-based binary mixtures in the molten salt solar power tower systems. Energy, 2019, 173, 785-798.	8.8	74
12	Evaluation of alternative eutectic salt as heat transfer fluid for solar power tower coupling a supercritical CO2 Brayton cycle from the viewpoint of system-level analysis. Journal of Cleaner Production, 2021, 279, 123472.	9.3	70
13	A coupled optical-thermal-fluid-mechanical analysis of parabolic trough solar receivers using supercritical CO2 as heat transfer fluid. Applied Thermal Engineering, 2021, 183, 116154.	6.0	58
14	Numerical optimization of catalyst configurations in a solar parabolic trough receiver–reactor with non-uniform heat flux. Solar Energy, 2015, 122, 113-125.	6.1	50
15	Buoyancy effects on convective heat transfer of supercritical CO2 and thermal stress in parabolic trough receivers under non-uniform solar flux distribution. International Journal of Heat and Mass Transfer, 2021, 175, 121130.	4.8	38
16	Thermal-fluid-mechanical analysis of tubular solar receiver panels using supercritical CO2 as heat transfer fluid under non-uniform solar flux distribution. Solar Energy, 2021, 223, 72-86.	6.1	30
17	Off-design optimization for solar power plant coupling with a recompression supercritical CO2 Brayton cycle and a turbine-driven main compressor. Applied Thermal Engineering, 2022, 209, 118281.	6.0	30
18	Three-dimensional shape optimization of fins in a printed circuit recuperator using S-CO2 as the heat-transfer fluid. International Journal of Heat and Mass Transfer, 2022, 192, 122910.	4.8	22

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#	Article	IF	CITATIONS
19	Comprehensive Thermal Analysis of Diamond in a High-Power Raman Cavity Based on FVM-FEM Coupled Method. Nanomaterials, 2021, 11, 1572.	4.1	19
20	Numerical investigation of convective heat transfer enhancement by a combination of vortex generator and in-tube inserts. International Communications in Heat and Mass Transfer, 2021, 127, 105490.	5.6	12
21	An inverse optimization of convection heat transfer in rectangle channels with ribbed surface based on the extremum principle of entransy dissipation. International Journal of Heat and Mass Transfer, 2019, 130, 722-732.	4.8	11
22	Inverse simulation to optimize the rib-profile in a rectangular flow-channel. International Communications in Heat and Mass Transfer, 2020, 114, 104567.	5.6	7
23	Effects of electromagnetic-vibration fan with folding blades on convective heat transfer. Applied Thermal Engineering, 2022, 213, 118651.	6.0	7
24	A 33.2 W High Beam Quality Chirped-Pulse Amplification-Based Femtosecond Laser for Industrial Processing. Materials, 2020, 13, 2841.	2.9	6
25	Contribution Ratio Study of Fuel Alcohol and Gasoline on the Alcohol and Hydrocarbon Emissions of a Gasohol Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2014, 136, .	2.3	4
26	Two-level stabilized finite element method for the transient Navier–Stokes equations. International Journal of Computer Mathematics, 2010, 87, 2341-2360.	1.8	3