

# Kun Wang

## List of Publications by Year in descending order

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26  
papers

2,166  
citations

430874

18  
h-index

552781

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1013  
citing authors

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

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19	Comprehensive Thermal Analysis of Diamond in a High-Power Raman Cavity Based on FVM-FEM Coupled Method. <i>Nanomaterials</i> , 2021, 11, 1572.	4.1	19
20	Numerical investigation of convective heat transfer enhancement by a combination of vortex generator and in-tube inserts. <i>International Communications in Heat and Mass Transfer</i> , 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. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 722-732.	4.8	11
22	Inverse simulation to optimize the rib-profile in a rectangular flow-channel. <i>International Communications in Heat and Mass Transfer</i> , 2020, 114, 104567.	5.6	7
23	Effects of electromagnetic-vibration fan with folding blades on convective heat transfer. <i>Applied Thermal Engineering</i> , 2022, 213, 118651.	6.0	7
24	A 33.2 W High Beam Quality Chirped-Pulse Amplification-Based Femtosecond Laser for Industrial Processing. <i>Materials</i> , 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. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2014, 136, .	2.3	4
26	Two-level stabilized finite element method for the transient Navier–Stokes equations. <i>International Journal of Computer Mathematics</i> , 2010, 87, 2341-2360.	1.8	3