

Wei Yao

List of Publications by Year in descending order

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46
papers

1,402
citations

361296

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docs citations

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times ranked

1414
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-2 nm ultra-thin Bi ₂ O ₂ CO ₃ nanosheets with abundant Bi-O structures toward formic acid electrosynthesis over a wide potential window. <i>Nano Research</i> , 2022, 15, 2919-2927.	5.8	27
2	Experimental study on particles directed transport by an alternating travelling-wave electrostatic field. <i>Powder Technology</i> , 2022, 397, 117107.	2.1	6
3	Enhanced catalytic performance with Fe [±] -Fe ₂ O ₃ thin nanosheets by synergistic effect of photocatalysis and Fenton-like process. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 150, 109886.	1.9	24
4	Investigation of Dropwise Condensation on a Super-Aligned Carbon Nanotube Mesh-Coated Surface. <i>Langmuir</i> , 2021, 37, 2629-2638.	1.6	2
5	The dynamics of droplet detachment in reversed electrowetting (REW). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126303.	2.3	10
6	Extraterrestrial artificial photosynthetic materials for <i>in-situ</i> resource utilization. <i>National Science Review</i> , 2021, 8, nwab104.	4.6	17
7	Manipulation of a Nonconductive Droplet in an Aqueous Fluid with AC Electric Fields: Droplet Dewetting, Oscillation, and Detachment. <i>Langmuir</i> , 2021, 37, 12098-12111.	1.6	13
8	Efficient Mesh Interface Engineering: Insights from Bubble Dynamics in Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45346-45354.	4.0	14
9	Numerical study of particle transport by an alternating travelling-wave electrostatic field. <i>Acta Astronautica</i> , 2021, 188, 505-517.	1.7	4
10	A Direct Calculation Method for Space-Based Active Detection of Greenhouse Gas-Flux. <i>Advances in Astronautics Science and Technology</i> , 2021, 4, 133-141.	0.5	0
11	Conversion of low-grade heat via thermal-evaporation-induced electricity generation on nanostructured carbon films. <i>Applied Thermal Engineering</i> , 2020, 166, 114623.	3.0	22
12	Numerical simulation of bubble motions in a coaxial annular electric field under microgravity. <i>Aerospace Science and Technology</i> , 2020, 96, 105525.	2.5	12
13	Liquid penetration in metal wire mesh between parallel plates under normal gravity and microgravity conditions. <i>Applied Thermal Engineering</i> , 2020, 167, 114722.	3.0	7
14	Numerical investigation of flow boiling in manifold microchannel-based heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120493.	2.5	18
15	Hard Carbon Nanotube Sponges for Highly Efficient Cooling <i>via</i> Moisture Absorption-Desorption Process. <i>ACS Nano</i> , 2020, 14, 14091-14099.	7.3	31
16	Ultralight PEDOT:PSS/graphene oxide composite aerogel sponges for electric power harvesting from thermal fluctuations and moist environment. <i>Nano Energy</i> , 2020, 77, 105096.	8.2	41
17	Actuation of a Nonconductive Droplet in an Aqueous Fluid by Reversed Electrowetting Effect. <i>Langmuir</i> , 2020, 36, 8152-8164.	1.6	21
18	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. <i>Nature Physics</i> , 2019, 15, 904-910.	6.5	86

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19	Exergy analysis of a lunar based solar thermal power system with finite-time thermodynamics. Energy Procedia, 2019, 158, 792-796.	1.8	5
20	Icephobic behaviors of superhydrophobic amorphous carbon nano-films synthesized from a flame process. Journal of Colloid and Interface Science, 2019, 552, 613-621.	5.0	19
21	Droplet impact on a layer of solid particles placed above a substrate: A 3D lattice Boltzmann study. Computers and Fluids, 2019, 188, 18-30.	1.3	15
22	Harvesting environment energy from water-evaporation over free-standing graphene oxide sponges. Carbon, 2019, 148, 1-8.	5.4	113
23	Effect of an Auxiliary Plate on Passive Heat Dissipation of Carbon Nanotube-Based Materials. Nano Letters, 2018, 18, 1770-1776.	4.5	34
24	Analysis of the performance of an alkali metal thermoelectric converter (AMTEC) based on a lumped thermal-electrochemical model. Applied Energy, 2018, 216, 195-211.	5.1	18
25	Electrical potential induced switchable wettability of super-aligned carbon nanotube films. Applied Surface Science, 2018, 427, 628-635.	3.1	13
26	Enhancement of evaporative heat transfer on carbon nanotube sponges by electric field reinforced wettability. Applied Surface Science, 2018, 454, 262-269.	3.1	18
27	Validation of a dynamic model for vapor bubble growth and collapse under microgravity conditions. International Communications in Heat and Mass Transfer, 2018, 95, 63-73.	2.9	17
28	Interfacial thermal resistance and thermal rectification in carbon nanotube film-copper systems. Nanoscale, 2017, 9, 3133-3139.	2.8	24
29	Modeling of subcooled boiling by extending the RPI wall boiling model to ultra-high pressure conditions. Applied Thermal Engineering, 2017, 124, 571-584.	3.0	56
30	Dynamic modeling of bubble growth in vapor-liquid phase change covering a wide range of superheats and pressures. Chemical Engineering Science, 2017, 172, 169-181.	1.9	26
31	The electrically induced bubble behaviors considering different bubble injection directions. International Journal of Heat and Mass Transfer, 2017, 104, 729-742.	2.5	12
32	Performance analysis of a lunar based solar thermal power system with regolith thermal storage. Energy, 2016, 107, 227-233.	4.5	31
33	Computation and validation of the interphase force models for bubbly flow. International Journal of Heat and Mass Transfer, 2016, 98, 799-813.	2.5	61
34	Excellent heat dissipation properties of the super-aligned carbon nanotube films. RSC Advances, 2016, 6, 61686-61694.	1.7	42
35	Enhancement of Natural Convection by Carbon Nanotube Films Covered Microchannel-Surface for Passive Electronic Cooling Devices. ACS Applied Materials & Interfaces, 2016, 8, 31202-31211.	4.0	32
36	Numerical Simulation of Convective-radiative Coupled Heat Transfer Performance for High Altitude Airships. Procedia Engineering, 2015, 126, 612-616.	1.2	2

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37	Dynamic modelling and simulation of a heat engine aerobot for atmospheric energy utilization. Energy, 2015, 79, 439-446.	4.5	4
38	Altitude control performance of a natural energy driven stratospheric aerostat. Advances in Space Research, 2015, 56, 2508-2514.	1.2	6
39	A heat transient model for the thermal behavior prediction of stratospheric airships. Applied Thermal Engineering, 2014, 70, 380-387.	3.0	45
40	Directly measuring of thermal pulse transfer in one-dimensional highly aligned carbon nanotubes. Scientific Reports, 2013, 3, 2549.	1.6	23
41	High-Density Carbon Nanotube Buckypapers with Superior Transport and Mechanical Properties. Nano Letters, 2012, 12, 4848-4852.	4.5	170
42	Temperature Dependence of Thermal Boundary Resistances between Multiwalled Carbon Nanotubes and Some Typical Counterpart Materials. ACS Nano, 2012, 6, 3057-3062.	7.3	14
43	A selection limiter of DSMC for near continuum flows. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 2203-2212.	1.7	5
44	A Three-Dimensional Two-Fluid Modeling of Stratified Flow with Condensation for Pressurized Thermal Shock Investigations. Nuclear Technology, 2005, 152, 129-142.	0.7	23
45	Volumetric interfacial area prediction in upward bubbly two-phase flow. International Journal of Heat and Mass Transfer, 2004, 47, 307-328.	2.5	212
46	Prediction of Parameters Distribution of Upward Boiling Two-Phase Flow With Two-Fluid Models. , 2002, , 801.		7