

Dong-Chuan Mo

List of Publications by Year in descending order

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papers

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citations

136885

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114418

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78
all docs

78
docs citations

78
times ranked

8376
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of Iron Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 041104.	2.9	46
2	Properties of Heavy Secondary Fluorine Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 081102.	2.9	19
3	Biomimetic Copper Forest Wick Enables High Thermal Conductivity Ultrathin Heat Pipe. ACS Nano, 2021, 15, 6614-6621.	7.3	42
4	Thermoelectric transports in pristine and functionalized boron phosphide monolayers. Scientific Reports, 2021, 11, 10030.	1.6	10
5	Controllable Preparation of Core-Shell Composites and Their Templated Hollow Carbons Based on a Well-Orchestrated Molecular Bridge-Linked Organic-Inorganic Hybrid Interface. ACS Applied Materials & Interfaces, 2021, 13, 26404-26410.	4.0	9
6	Carbon-coated SnO ₂ riveted on a reduced graphene oxide composite (C@SnO ₂ /RGO) as an anode material for lithium-ion batteries. RSC Advances, 2021, 11, 8521-8529.	1.7	7
7	PTFE-modified porous surface: Eliminating boiling hysteresis. International Communications in Heat and Mass Transfer, 2020, 111, 104441.	2.9	14
8	Enhanced pool boiling performance of a porous honeycomb copper surface with radial diameter gradient. International Journal of Heat and Mass Transfer, 2020, 157, 119867.	2.5	34
9	Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2020, 124, 211102.	2.9	58
10	Electrodeposition Patterned Copper Foam with Micro/Nanostructures for Reducing Supercooling in Water-Based Cool Storage Phase-Change Materials. Applied Sciences (Switzerland), 2020, 10, 4202.	1.3	5
11	Fast Reconstruction of Transient Heat-Flux Distributions in a Laser Heating Process with Time-Space Adaptive Mesh Refinement. Mechanisms and Machine Science, 2020, , 1217-1223.	0.3	0
12	PTFE Modification to Enhance Boiling Performance of Porous Surface. Journal of Heat Transfer, 2020, 142, .	1.2	0
13	Enhancing the interfacial thermal conduction of the graphene sheets <i>via</i> chemical bond-bond connections. AIP Advances, 2019, 9, 085106.	0.6	0
14	A novel formulation and sequential solution strategy with time-space adaptive mesh refinement for efficient reconstruction of local boundary heat flux. International Journal of Heat and Mass Transfer, 2019, 141, 1288-1300.	2.5	8
15	Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer. Physical Review Letters, 2019, 123, 181102.	2.9	40
16	Lithium storage properties of NiO/reduced graphene oxide composites derived from different oxidation degrees of graphite oxide. Journal of Alloys and Compounds, 2019, 810, 151954.	2.8	31
17	TiO ₂ nanorods anchor on reduced graphene oxide (R-TiO ₂ /rGO) composite as anode for high performance lithium-ion batteries. Applied Surface Science, 2019, 497, 143553.	3.1	46
18	Towards Understanding the Origin of Cosmic-Ray Positrons. Physical Review Letters, 2019, 122, 041102.	2.9	174

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19	Synthesis of MnCO ₃ /Multiwalled Carbon Nanotube Composite as Anode Material for Lithium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 5743-5749.	0.9	5
20	Towards Understanding the Origin of Cosmic-Ray Electrons. <i>Physical Review Letters</i> , 2019, 122, 101101.	2.9	109
21	Synthesis of macroporous carbon materials as anode material for high-performance lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5092-5097.	1.1	12
22	Facile fabrication of NiO flakes and reduced graphene oxide (NiO/RGO) composite as anode material for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5874-5880.	1.1	21
23	Predicted high thermoelectric performance in a two-dimensional indium telluride monolayer and its dependence on strain. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24695-24701.	1.3	25
24	Cauliflower-like Nickel with Polar Ni(OH) ₂ /NiO _x Shell To Decorate Copper Meshes for Efficient Oil/Water Separation. <i>ACS Omega</i> , 2019, 4, 20486-20492.	1.6	18
25	Facile preparation of N-doped MnO/rGO composite as an anode material for high-performance lithium-ion batteries. <i>Applied Surface Science</i> , 2019, 465, 470-477.	3.1	28
26	PTFE Modification to Enhance Boiling Performance of Porous Surface. , 2019, , .		0
27	Nanostructural thermoelectric materials and their performance. <i>Frontiers in Energy</i> , 2018, 12, 97-108.	1.2	22
28	Observation of New Properties of Secondary Cosmic Rays Lithium, Beryllium, and Boron by the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 120, 021101.	2.9	172
29	Wettability modification to further enhance the pool boiling performance of the micro nano bi-porous copper surface structure. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 333-342.	2.5	118
30	Fabrication of NiO-ZnO/RGO composite as an anode material for lithium-ion batteries. <i>Ceramics International</i> , 2018, 44, 22664-22670.	2.3	30
31	Preparation of novel two-stage structure MnO micrometer particles as lithium-ion battery anode materials. <i>RSC Advances</i> , 2018, 8, 28518-28524.	1.7	9
32	Preparation of a fusiform shape MnO/C composite as anode materials for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 11982-11990.	1.1	14
33	Experimental Investigation of the Effect of Gravity on Heat Transfer and Instability in Parallel Mini-channel Heat Exchanger. <i>Microgravity Science and Technology</i> , 2018, 30, 831-838.	0.7	10
34	Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 121, 051102.	2.9	62
35	Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 121, 051101.	2.9	98
36	Precision Measurement of Cosmic-Ray Nitrogen and its Primary and Secondary Components with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 121, 051103.	2.9	68

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37	THE TWO-LAYERS COMPOSITE STRUCTURE OF BIOMIMETIC COPPER FOREST AND HONEYCOMB-LIKE POROUS STRUCTURE TO ENHANCE POOL BOILING PERFORMANCE. , 2018, , .		1
38	ENHANCING THE INTERFACIAL THERMAL CONDUCTION OF GRAPHENE SHEETS BY BOND CONNECTION. , 2018, , .		0
39	INVESTIGATION OF THE LOCAL MASS TRANSFER IN REVERSE OSMOSIS DESALINATION PROCESS WITH HIGH-PERFORMANCE COMPUTING SOLUTIONS. , 2018, , .		0
40	Theoretical design of a new family of two-dimensional topological insulators. Physical Chemistry Chemical Physics, 2017, 19, 7481-7485.	1.3	12
41	The Janus effect on superhydrophilic Cu mesh decorated with Ni-NiO/Ni(OH) ₂ core-shell nanoparticles for oil/water separation. Applied Surface Science, 2017, 409, 431-437.	3.1	39
42	Copper vertical micro dendrite fin arrays and their superior boiling heat transfer capability. Applied Surface Science, 2017, 422, 388-393.	3.1	34
43	Excellent Thermoelectric Performance Predicted in Two-Dimensional Buckled Antimonene: A First-Principles Study. Journal of Physical Chemistry C, 2017, 121, 13035-13042.	1.5	73
44	Fluorine-Induced Superhydrophilic Ti Foam with Surface Nanocavities for Effective Oil-in-Water Emulsion Separation. Industrial & Engineering Chemistry Research, 2017, 56, 699-707.	1.8	33
45	Observation of the Identical Rigidity Dependence of He, C, and O Cosmic Rays at High Rigidities by the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2017, 119, 251101.	2.9	204
46	WSe ₂ Nanoribbons: New High-Performance Thermoelectric Materials. , 2016, , .		0
47	Enhanced Pool Boiling Heat Transfer on Mono and Multi-Layer Micro-Nano Bi-Porous Copper Surfaces. , 2016, , .		4
48	Fluorine-Induced Superhydrophilic TiO ₂ Nanotube Arrays. , 2016, , .		0
49	WSe ₂ nanoribbons: new high-performance thermoelectric materials. Physical Chemistry Chemical Physics, 2016, 18, 16337-16344.	1.3	26
50	A New Route for Surface Modification: Fluorine-Induced Superhydrophilicity. Journal of Physical Chemistry C, 2016, 120, 11882-11888.	1.5	16
51	Droplet bouncing on hierarchical branched nanotube arrays above and below the freezing temperature. Applied Surface Science, 2016, 375, 127-135.	3.1	9
52	Antiproton Flux, Antiproton-to-Proton Flux Ratio, and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 091103.	2.9	295
53	Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9 Â GeV to 2.6 Â TeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 231102.	2.9	236
54	Hierarchical nanoparticle-induced superhydrophilic and under-water superoleophobic Cu foam with ultrahigh water permeability for effective oil/water separation. Journal of Materials Chemistry A, 2016, 4, 10566-10574.	5.2	65

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55	Superhydrophilic Nickel Nanoparticles with Core-Shell Structure To Decorate Copper Mesh for Efficient Oil/Water Separation. Journal of Physical Chemistry C, 2016, 120, 12685-12692.	1.5	60
56	Thermoelectric Properties of Transition Metal Dichalcogenides: From Monolayers to Nanotubes. Journal of Physical Chemistry C, 2015, 119, 26706-26711.	1.5	80
57	Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9AGV to 3ATV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 115, 211101.	2.9	369
58	Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1AGV to 1.8 TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 114, 171103.	2.9	655
59	Substrate effect on thermal transport properties of graphene on SiC(0001) surface. Chemical Physics Letters, 2015, 618, 231-235.	1.2	7
60	Precision Measurement of the $\int_{\text{stretchy}=\text{false}}^{\text{e}}$ Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 221102.	2.9	238
61	Thermal conductivity enhancement with different fillers for epoxy resin adhesives. Applied Thermal Engineering, 2014, 66, 493-498.	3.0	221
62	Production of monolayer, trilayer, and multi-layer graphene sheets by a re-expansion and exfoliation method. Journal of Materials Science, 2014, 49, 2315-2323.	1.7	15
63	The key factor for fabricating through-hole TiO2 nanotube arrays: a fluoride-rich layer between Ti substrate and nanotubes. Journal of Materials Science, 2014, 49, 6742-6749.	1.7	14
64	Thermal conductivity enhancement of epoxy adhesive using graphene sheets as additives. International Journal of Thermal Sciences, 2014, 86, 276-283.	2.6	126
65	Flat Loop Heat Pipe with Bi-Transport Loops for Graphics Card Cooling. Heat Transfer Engineering, 2014, 35, 1071-1076.	1.2	6
66	Active CO2 two-phase loops for the AMS-02 tracker. IEEE Aerospace and Electronic Systems Magazine, 2014, 29, 4-13.	2.3	11
67	Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121102.	2.9	397
68	High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5AGeV to 500AGeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121101.	2.9	428
69	High Conductivity Performance of Compressed Graphene Sheet Layer. , 2014, , .		0
70	On the thermoelectric transport properties of graphyne by the first-principles method. Journal of Chemical Physics, 2013, 138, 204704.	1.2	57
71	First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5AGeV to 350 GeV. Physical Review Letters, 2013, 110, 141102.	2.9	852
72	A Flow Visualization Study on the Temperature Oscillations Inside a Loop Heat Pipe With Flat Evaporator. , 2013, , .		2

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73	Experimental Study on a Flat Loop Heat Pipe Coupling the Compensation Chamber and the Condenser. , 2010, , .		0
74	Heat Transfer Characteristic of Meshed Vapor Chamber. , 2009, , .		0
75	Pool boiling on the superhydrophilic surface with TiO ₂ nanotube arrays. Science in China Series D: Earth Sciences, 2009, 52, 1596-1600.	0.9	39
76	Gravity Effects on the Performance of a Flat Loop Heat Pipe. Microgravity Science and Technology, 2009, 21, 95-102.	0.7	25
77	Coupling Between an Accumulator and a Loop in a Mechanically Pumped Carbon Dioxide Two-Phase Loop. Microgravity Science and Technology, 2009, 21, 23-29.	0.7	11
78	Comparison of Pressure Drop between Calculation and Experiment for a Two-phase Carbon Dioxide Loop. Microgravity Science and Technology, 2008, 20, 183-186.	0.7	0