Dong-Chuan Mo

List of Publications by Year
in descending order

78 papers	6,024 citations	136885 32 h-index	114418 63 g-index
78 all docs	78 docs citations	78 times ranked	8376 citing authors

#	Article	IF	Citations
1	First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5â€“350 GeV. Physical Review Letters, 2013, 110, 141102.	2.9	852
2	Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1ÂGV to 1.8 TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 114, 171103.	2.9	655
3	High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5â€“500ÂGeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121101.	2.9	428
4	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
5	Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9ÂGV to 3ÂTV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 115, 211101.	2.9	369
6	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
7	Precision Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mo>+</mml:mo><mml:ms Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 221102.	2.9	238
8	Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9ÂGV to 2.6ÂTV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 231102.	2.9	236
9	Thermal conductivity enhancement with different fillers for epoxy resin adhesives. Applied Thermal Engineering, 2014, 66, 493-498.	3.0	221
10	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
11	Towards Understanding the Origin of Cosmic-Ray Positrons. Physical Review Letters, 2019, 122, 041102.	2.9	174
12	Observation of New Properties of Secondary Cosmic Rays Lithium, Beryllium, and Boron by the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 120, 021101.	2.9	172
13	Thermal conductivity enhancement of epoxy adhesive using graphene sheets as additives. International Journal of Thermal Sciences, 2014, 86, 276-283.	2.6	126
14	Wettability modification to further enhance the pool boiling performance of the micro nano bi-porous copper surface structure. International Journal of Heat and Mass Transfer, 2018, 119, 333-342.	2.5	118
15	Towards Understanding the Origin of Cosmic-Ray Electrons. Physical Review Letters, 2019, 122, 101101.	2.9	109
16	Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051101.	2.9	98
17	Thermoelectric Properties of Transition Metal Dichalcogenides: From Monolayers to Nanotubes. Journal of Physical Chemistry C, 2015, 119, 26706-26711.	1.5	80
18	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

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19	Precision Measurement of Cosmic-Ray Nitrogen and its Primary and Secondary Components with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051103.	2.9	68
20	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
21	Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051102.	2.9	62
22	Superhydrophilic Nickel Nanoparticles with Coreâ€"Shell Structure To Decorate Copper Mesh for Efficient Oil/Water Separation. Journal of Physical Chemistry C, 2016, 120, 12685-12692.	1.5	60
23	Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2020, 124, 211102.	2.9	58
24	On the thermoelectric transport properties of graphyne by the first-principles method. Journal of Chemical Physics, 2013, 138, 204704.	1.2	57
25	TiO2 nanorods anchor on reduced graphene oxide (R-TiO2/rGO) composite as anode for high performance lithium-ion batteries. Applied Surface Science, 2019, 497, 143553.	3.1	46
26	Properties of Iron Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 041104.	2.9	46
27	Biomimetic Copper Forest Wick Enables High Thermal Conductivity Ultrathin Heat Pipe. ACS Nano, 2021, 15, 6614-6621.	7.3	42
28	Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer. Physical Review Letters, 2019, 123, 181102.	2.9	40
29	Pool boiling on the superhydrophilic surface with TiO2 nanotube arrays. Science in China Series D: Earth Sciences, 2009, 52, 1596-1600.	0.9	39
30	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
31	Copper vertical micro dendrite fin arrays and their superior boiling heat transfer capability. Applied Surface Science, 2017, 422, 388-393.	3.1	34
32	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
33	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
34	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
35	Fabrication of NiO-ZnO/RGO composite as an anode material for lithium-ion batteries. Ceramics International, 2018, 44, 22664-22670.	2.3	30
36	Facile preparation of N-doped MnO/rGO composite as an anode material for high-performance lithium-ion batteries. Applied Surface Science, 2019, 465, 470-477.	3.1	28

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37	WSe₂ nanoribbons: new high-performance thermoelectric materials. Physical Chemistry Chemical Physics, 2016, 18, 16337-16344.	1.3	26
38	Gravity Effects on the Performance of a Flat Loop Heat Pipe. Microgravity Science and Technology, 2009, 21, 95-102.	0.7	25
39	Predicted high thermoelectric performance in a two-dimensional indium telluride monolayer and its dependence on strain. Physical Chemistry Chemical Physics, 2019, 21, 24695-24701.	1.3	25
40	Nanostructural thermoelectric materials and their performance. Frontiers in Energy, 2018, 12, 97-108.	1.2	22
41	Facile fabrication of NiO flakes and reduced graphene oxide (NiO/RGO) composite as anode material for lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2019, 30, 5874-5880.	1.1	21
42	Properties of Heavy Secondary Fluorine Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 081102.	2.9	19
43	Cauliflower-like Nickel with Polar Ni(OH)₂/NiO<i>_x</i>F<i>_y</i> Shell To Decorate Copper Meshes for Efficient Oil/Water Separation. ACS Omega, 2019, 4, 20486-20492.	1.6	18
44	A New Route for Surface Modification: Fluorine-Induced Superhydrophilicity. Journal of Physical Chemistry C, 2016, 120, 11882-11888.	1.5	16
45	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
46	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
47	Preparation of a fusiform shape MnO/C composite as anode materials for lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2018, 29, 11982-11990.	1.1	14
48	PTFE-modified porous surface: Eliminating boiling hysteresis. International Communications in Heat and Mass Transfer, 2020, 111, 104441.	2.9	14
49	Theoretical design of a new family of two-dimensional topological insulators. Physical Chemistry Chemical Physics, 2017, 19, 7481-7485.	1.3	12
50	Synthesis of macroporous carbon materials as anode material for high-performance lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2019, 30, 5092-5097.	1.1	12
51	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
52	Active CO2 two-phase loops for the AMS-02 tracker. IEEE Aerospace and Electronic Systems Magazine, 2014, 29, 4-13.	2.3	11
53	Experimental Investigation of the Effect of Gravity on Heat Transfer and Instability in Parallel Mini-channel Heat Exchanger. Microgravity Science and Technology, 2018, 30, 831-838.	0.7	10
54	Thermoelectric transports in pristine and functionalized boron phosphide monolayers. Scientific Reports, 2021, 11, 10030.	1.6	10

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55	Droplet bouncing on hierarchical branched nanotube arrays above and below the freezing temperature. Applied Surface Science, 2016, 375, 127-135.	3.1	9
56	Preparation of novel two-stage structure MnO micrometer particles as lithium-ion battery anode materials. RSC Advances, 2018, 8, 28518-28524.	1.7	9
57	Controllable Preparation of Coreâ€“Shell Composites and Their Templated Hollow Carbons Based on a Well-Orchestrated Molecular Bridge-Linked Organicâ€“Inorganic Hybrid Interface. ACS Applied Materials & Interfaces, 2021, 13, 26404-26410.	4.0	9
58	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
59	Substrate effect on thermal transport properties of graphene on SiC(0001) surface. Chemical Physics Letters, 2015, 618, 231-235.	1.2	7
60	Carbon-coated SnO₂ riveted on a reduced graphene oxide composite (C@SnO₂/RGO) as an anode material for lithium-ion batteries. RSC Advances, 2021, 11, 8521-8529.	1.7	7
61	Flat Loop Heat Pipe with Bi-Transport Loops for Graphics Card Cooling. Heat Transfer Engineering, 2014, 35, 1071-1076.	1.2	6
62	Synthesis of MnCO₃/Multiwalled Carbon Nanotube Composite as Anode Material for Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2019, 19, 5743-5749.	0.9	5
63	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
64	Enhanced Pool Boiling Heat Transfer on Mono and Multi-Layer Micro-Nano Bi-Porous Copper Surfaces. , 2016, , .		4
65	A Flow Visualization Study on the Temperature Oscillations Inside a Loop Heat Pipe With Flat Evaporator. , 2013, , .		2
66	THE TWO-LAYERS COMPOSITE STRUCTURE OF BIOMIMETIC COPPER FOREST AND HONEYCOMB-LIKE POROUS STRUCTURE TO ENHANCE POOL BOILING PERFORMANCE. , 2018, , .		1
67	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
68	Heat Transfer Characteristic of Meshed Vapor Chamber. , 2009, , .		0
69	Experimental Study on a Flat Loop Heat Pipe Coupling the Compensation Chamber and the Condenser. , 2010, , .		0
70	WSe2 Nanoribbons: New High-Performance Thermoelectric Materials. , 2016, , .		0
71	Fluorine-Induced Superhydrophilic TiO2 Nanotube Arrays. , 2016, , .		0
72	Enhancing the interfacial thermal conduction of the graphene sheets <i>via</i> chemical bondâ€“bond connections. AIP Advances, 2019, 9, 085106.	0.6	0

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73	High Conductivity Performance of Compressed Graphene Sheet Layer. , 2014, , .		0
74	ENHANCING THE INTERFACIAL THERMAL CONDUCTION OF GRAPHENE SHEETS BY BOND CONNECTION. , 2018, , .		0
75	INVESTIGATION OF THE LOCAL MASS TRANSFER IN REVERSE OSMOSIS DESALINATION PROCESS WITH HIGH-PERFORMANCE COMPUTING SOLUTIONS. , 2018, , .		0
76	PTFE Modification to Enhance Boiling Performance of Porous Surface. , 2019, , .		0
77	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
78	PTFE Modification to Enhance Boiling Performance of Porous Surface. Journal of Heat Transfer, 2020, 142, .	1.2	0