

Hongtao Sun

List of Publications by Year in descending order

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56
papers

8,809
citations

87888

38
h-index

168389

53
g-index

57
all docs

57
docs citations

57
times ranked

13702
citing authors

#	ARTICLE	IF	CITATIONS
1	General synthesis and definitive structural identification of MN ₄ C ₄ single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018, 1, 63-72.	34.4	1,476
2	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , 2017, 356, 599-604.	12.6	1,229
3	High-rate lithiation-induced reactivation of mesoporous hollow spheres for long-lived lithium-ion batteries. <i>Nature Communications</i> , 2014, 5, 4526.	12.8	586
4	Highly thermally conductive and mechanically strong graphene fibers. <i>Science</i> , 2015, 349, 1083-1087.	12.6	564
5	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2019, 4, 45-60.	48.7	554
6	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019, 2, 495-503.	34.4	464
7	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	12.6	429
8	Large-area Freestanding Graphene Paper for Superior Thermal Management. <i>Advanced Materials</i> , 2014, 26, 4521-4526.	21.0	386
9	Flexible Pillared Graphene Paper Electrodes for High-performance Electrochemical Supercapacitors. <i>Small</i> , 2012, 8, 452-459.	10.0	297
10	Atomic Layer Deposition of TiO ₂ on Graphene for Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2012, 159, A364-A369.	2.9	186
11	Morphology controlled high performance supercapacitor behaviour of the Ni-Co binary hydroxide system. <i>Journal of Power Sources</i> , 2013, 238, 150-156.	7.8	175
12	Flexible free-standing graphene-TiO ₂ hybrid paper for use as lithium ion battery anode materials. <i>Carbon</i> , 2013, 51, 322-326.	10.3	156
13	High responsivity, fast ultraviolet photodetector fabricated from ZnO nanoparticle-graphene core-shell structures. <i>Nanoscale</i> , 2013, 5, 3664.	5.6	154
14	Rapid synthesis of nitrogen-doped graphene for a lithium ion battery anode with excellent rate performance and super-long cyclic stability. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1060-1066.	2.8	146
15	Graphene-Wrapped Mesoporous Cobalt Oxide Hollow Spheres Anode for High-Rate and Long-Life Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2263-2272.	3.1	119
16	Synthesis of ZnO quantum dot/graphene nanocomposites by atomic layer deposition with high lithium storage capacity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7319-7326.	10.3	117
17	Organic-Inorganic Heterointerfaces for Ultrasensitive Detection of Ultraviolet Light. <i>Nano Letters</i> , 2015, 15, 3787-3792.	9.1	117
18	Advanced Phase Change Composite by Thermally Annealed Defect-Free Graphene for Thermal Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15262-15271.	8.0	113

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19	Pseudocapacitance of Amorphous TiO ₂ Thin Films Anchored to Graphene and Carbon Nanotubes Using Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22497-22508.	3.1	102
20	Temperature-Dependent Morphology Evolution and Surface Plasmon Absorption of Ultrathin Gold Island Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9000-9008.	3.1	82
21	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. <i>Matter</i> , 2019, 1, 1567-1580.	10.0	82
22	ZnO/graphene nanocomposite fabricated by high energy ball milling with greatly enhanced lithium storage capability. <i>Electrochemistry Communications</i> , 2013, 34, 312-315.	4.7	76
23	Atomic layer deposition of amorphous TiO ₂ on graphene as an anode for Li-ion batteries. <i>Nanotechnology</i> , 2013, 24, 424002.	2.6	76
24	A New Y ₃ Al ₅ O ₁₂ Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). <i>Advanced Materials</i> , 2005, 17, 830-833.	21.0	72
25	A hyperaccumulation pathway to three-dimensional hierarchical porous nanocomposites for highly robust high-power electrodes. <i>Nature Communications</i> , 2016, 7, 13432.	12.8	68
26	High quality ZnO@TiO ₂ core-shell nanowires for efficient ultraviolet sensing. <i>Applied Surface Science</i> , 2014, 314, 872-876.	6.1	63
27	High-Performance Ultraviolet Photodetector Based on Organic-Inorganic Hybrid Structure. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14690-14694.	8.0	62
28	Amorphous vanadium oxide coating on graphene by atomic layer deposition for stable high energy lithium ion anodes. <i>Chemical Communications</i> , 2014, 50, 10703.	4.1	61
29	Microstructural Analysis of a Laser-Processed Zr-Based Bulk Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1752-1757.	2.2	60
30	Stabilizing an amorphous V ₂ O ₅ /carbon nanotube paper electrode with conformal TiO ₂ coating by atomic layer deposition for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 537-544.	10.3	57
31	Enhanced Ultraviolet Emission from Poly(vinyl alcohol) ZnO Nanoparticles Using a SiO ₂ @Au Core/Shell Structure. <i>Nano Letters</i> , 2012, 12, 5840-5844.	9.1	55
32	Amorphous Ultrathin TiO ₂ Atomic Layer Deposition Films on Carbon Nanotubes as Anodes for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A974-A981.	2.9	53
33	Laser deposition of a Cu-based metallic glass powder on a Zr-based glass substrate. <i>Journal of Materials Research</i> , 2008, 23, 2692-2703.	2.6	52
34	3D WO ₃ nanowires/graphene nanocomposite with improved reversible capacity and cyclic stability for lithium ion batteries. <i>Materials Letters</i> , 2013, 108, 29-32.	2.6	51
35	Porosity Fe ₂ O ₃ nanorods anchored on nitrogen-doped graphenes and ultrathin Al ₂ O ₃ coating by atomic layer deposition for long-lived lithium ion battery anode. <i>Carbon</i> , 2014, 76, 141-147.	10.3	46
36	Flexible, thorn-like ZnO-multiwalled carbon nanotube hybrid paper for efficient ultraviolet sensing and photocatalyst applications. <i>Nanoscale</i> , 2014, 6, 13630-13636.	5.6	44

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37	Bulk Iodoapatite Ceramic Densified by Spark Plasma Sintering with Exceptional Thermal Stability. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2409-2412.	3.8	43
38	Ultra-high Areal Capacity Realized in Three-Dimensional Holey Graphene/SnO ₂ Composite Anodes. <i>IScience</i> , 2019, 19, 728-736.	4.1	40
39	Effective Temperature Sensing by Irreversible Morphology Evolution of Ultrathin Gold Island Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3366-3373.	3.1	34
40	Epitaxial Magnetic Perovskite Nanostructures. <i>Advanced Materials</i> , 2005, 17, 2869-2872.	21.0	33
41	Electrospray deposition of a Co ₃ O ₄ nanoparticles-graphene composite for a binder-free lithium ion battery electrode. <i>RSC Advances</i> , 2014, 4, 1521-1525.	3.6	29
42	Hierarchical Porous Carbon Derived from Covalent Triazine Frameworks for High Mass Loading Supercapacitors. , 2019, 1, 320-326.		29
43	Observation of Strained PdO in an Aged Pd/Ceria-Zirconia Catalyst. <i>Catalysis Letters</i> , 2002, 79, 99-105.	2.6	26
44	ZnO quantum dots-graphene composite for efficient ultraviolet sensing. <i>Materials Letters</i> , 2013, 112, 165-168.	2.6	21
45	Silica-core-Gold Core-shell Nanosphere for Ultrafast Dynamic Nanothermometer. <i>Advanced Functional Materials</i> , 2014, 24, 2389-2395.	14.9	21
46	Formation and coarsening of Ga droplets on focused-ion-beam irradiated GaAs surfaces. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	20
47	Facile and scalable preparation of 3D SnO ₂ /holey graphene composite frameworks for stable lithium storage at a high mass loading level. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1367-1373.	6.0	19
48	Displacive radiation-induced structural contraction in nanocrystalline ZrN. <i>Applied Physics Letters</i> , 2012, 101, 041904.	3.3	18
49	Surface plasmon resonances of Ga nanoparticle arrays. <i>Applied Physics Letters</i> , 2012, 101, 081905.	3.3	17
50	Aging-Induced Metal Redistribution in Bimetallic Catalysts. <i>Catalysis Letters</i> , 2002, 81, 1-7.	2.6	14
51	Vacuum-dried 3D Holey Graphene Frameworks Enabling High Mass Loading and Fast Charge Transfer for Advanced Batteries. <i>Energy Technology</i> , 2020, 8, 1901002.	3.8	8
52	Ultrathin gold island films for time-dependent temperature sensing. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	4
53	Three-Dimensional Holey-Graphene/Niobia Composite Architectures for Ultrahigh-Rate Energy Storage. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	2
54	Influence of Implanted Aluminum Ions on the Oxidation Behavior of M5 Alloy at 500°C. <i>Oxidation of Metals</i> , 2006, 65, 377-390.	2.1	1

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55	GRAPHENE AND GRAPHENE-BASED NANOCOMPOSITES: SYNTHESIS AND SUPERCAPACITOR APPLICATIONS. , 2012, , .		0
56	Transmission Electron Microscopy Study of Eu-Doped Y₂O₃ Nanosheets and Nanotubes. Nanoscience and Nanotechnology Letters, 2011, 3, 314-318.	0.4	0