Hongtao Sun

List of Publications by Year
in descending order

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Version: 2024-02-01

56 papers	8,809 citations	87843 38 h-index	168321 53 g-index
57 all docs	57 docs citations	57 times ranked	13702 citing authors

#	Article	IF	Citations
1	Vacuumâ€Dried 3D Holey Graphene Frameworks Enabling High Mass Loading and Fast Charge Transfer for Advanced Batteries. Energy Technology, 2020, 8, 1901002.	1.8	8
2	Hierarchical Porous Carbon Derived from Covalent Triazine Frameworks for High Mass Loading Supercapacitors. , 2019, 1, 320-326.		29
3	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. Matter, 2019, 1, 1567-1580.	5.0	82
4	Ultra-high Areal Capacity Realized in Three-Dimensional Holey Graphene/SnO2 Composite Anodes. IScience, 2019, 19, 728-736.	1.9	40
5	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503.	16.1	464
6	Facile and scalable preparation of 3D SnO₂/holey graphene composite frameworks for stable lithium storage at a high mass loading level. Inorganic Chemistry Frontiers, 2019, 6, 1367-1373.	3.0	19
7	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429
8	Hierarchical 3D electrodes for electrochemical energy storage. Nature Reviews Materials, 2019, 4, 45-60.	23.3	554
9	General synthesis and definitive structural identification of MN4C4 single-atom catalysts with tunable electrocatalytic activities. Nature Catalysis, 2018, 1, 63-72.	16.1	1,476
10	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. Science, 2017, 356, 599-604.	6.0	1,229
11	Three-Dimensional Holey-Graphene/Niobia Composite Architectures for Ultrahigh-Rate Energy Storage. ECS Meeting Abstracts, 2017, , .	0.0	2
12	A hyperaccumulation pathway to three-dimensional hierarchical porous nanocomposites for highly robust high-power electrodes. Nature Communications, 2016, 7, 13432.	5.8	68
13	Stabilizing an amorphous V₂O₅/carbon nanotube paper electrode with conformal TiO₂ coating by atomic layer deposition for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 537-544.	5.2	57
14	Amorphous Ultrathin TiO₂Atomic Layer Deposition Films on Carbon Nanotubes as Anodes for Lithium Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A974-A981.	1.3	53
15	Organicâ€“Inorganic Heterointerfaces for Ultrasensitive Detection of Ultraviolet Light. Nano Letters, 2015, 15, 3787-3792.	4.5	117
16	Highly thermally conductive and mechanically strong graphene fibers. Science, 2015, 349, 1083-1087.	6.0	564
17	Graphene-Wrapped Mesoporous Cobalt Oxide Hollow Spheres Anode for High-Rate and Long-Life Lithium Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 2263-2272.	1.5	119
18	Ultrathin gold island films for time-dependent temperature sensing. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	4

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19	Largeâ€Area Freestanding Graphene Paper for Superior Thermal Management. Advanced Materials, 2014, 26, 4521-4526.	11.1	386
20	Rapid synthesis of nitrogen-doped graphene for a lithium ion battery anode with excellent rate performance and super-long cyclic stability. Physical Chemistry Chemical Physics, 2014, 16, 1060-1066.	1.3	146
21	Amorphous vanadium oxide coating on graphene by atomic layer deposition for stable high energy lithium ion anodes. Chemical Communications, 2014, 50, 10703.	2.2	61
22	High-rate lithiation-induced reactivation of mesoporous hollow spheres for long-lived lithium-ion batteries. Nature Communications, 2014, 5, 4526.	5.8	586
23	Advanced Phase Change Composite by Thermally Annealed Defect-Free Graphene for Thermal Energy Storage. ACS Applied Materials & Interfaces, 2014, 6, 15262-15271.	4.0	113
24	Flexible, thorn-like ZnO-multiwalled carbon nanotube hybrid paper for efficient ultraviolet sensing and photocatalyst applications. Nanoscale, 2014, 6, 13630-13636.	2.8	44
25	Bulk Iodoapatite Ceramic Densified by Spark Plasma Sintering with Exceptional Thermal Stability. Journal of the American Ceramic Society, 2014, 97, 2409-2412.	1.9	43
26	Synthesis of ZnO quantum dot/graphene nanocomposites by atomic layer deposition with high lithium storage capacity. Journal of Materials Chemistry A, 2014, 2, 7319-7326.	5.2	117
27	High-Performance Ultraviolet Photodetector Based on Organicâ€“Inorganic Hybrid Structure. ACS Applied Materials & Interfaces, 2014, 6, 14690-14694.	4.0	62
28	Silicaâ€“Gold Coreâ€“Shell Nanosphere for Ultrafast Dynamic Nanothermometer. Advanced Functional Materials, 2014, 24, 2389-2395.	7.8	21
29	High quality ZnOâ€“TiO 2 coreâ€“shell nanowires for efficient ultraviolet sensing. Applied Surface Science, 2014, 314, 872-876.	3.1	63
30	Electrospray deposition of a Co₃O₄nanoparticlesâ€“graphene composite for a binder-free lithium ion battery electrode. RSC Advances, 2014, 4, 1521-1525.	1.7	29
31	Porous Fe2O3 nanorods anchored on nitrogen-doped graphenes and ultrathin Al2O3 coating by atomic layer deposition for long-lived lithium ion battery anode. Carbon, 2014, 76, 141-147.	5.4	46
32	ZnO/graphene nanocomposite fabricated by high energy ball milling with greatly enhanced lithium storage capability. Electrochemistry Communications, 2013, 34, 312-315.	2.3	76
33	Pseudocapacitance of Amorphous TiO₂ Thin Films Anchored to Graphene and Carbon Nanotubes Using Atomic Layer Deposition. Journal of Physical Chemistry C, 2013, 117, 22497-22508.	1.5	102
34	ZnO quantum dots-graphene composite for efficient ultraviolet sensing. Materials Letters, 2013, 112, 165-168.	1.3	21
35	Flexible free-standing grapheneâ€“TiO2 hybrid paper for use as lithium ion battery anode materials. Carbon, 2013, 51, 322-326.	5.4	156
36	3D WO3 nanowires/graphene nanocomposite with improved reversible capacity and cyclic stability for lithium ion batteries. Materials Letters, 2013, 108, 29-32.	1.3	51

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37	High responsivity, fast ultraviolet photodetector fabricated from ZnO nanoparticleâ€“graphene coreâ€“shell structures. Nanoscale, 2013, 5, 3664.	2.8	154
38	Effective Temperature Sensing by Irreversible Morphology Evolution of Ultrathin Gold Island Films. Journal of Physical Chemistry C, 2013, 117, 3366-3373.	1.5	34
39	Morphology controlled high performance supercapacitor behaviour of the Niâ€“Co binary hydroxide system. Journal of Power Sources, 2013, 238, 150-156.	4.0	175
40	Atomic layer deposition of amorphous TiO₂on graphene as an anode for Li-ion batteries. Nanotechnology, 2013, 24, 424002.	1.3	76
41	GRAPHENE AND GRAPHENE-BASED NANOCOMPOSITES: SYNTHESIS AND SUPERCAPACITOR APPLICATIONS. , 2012, , .		0
42	Displacive radiation-induced structural contraction in nanocrystalline ZrN. Applied Physics Letters, 2012, 101, 041904.	1.5	18
43	Temperature-Dependent Morphology Evolution and Surface Plasmon Absorption of Ultrathin Gold Island Films. Journal of Physical Chemistry C, 2012, 116, 9000-9008.	1.5	82
44	Atomic Layer Deposition of TiO₂on Graphene for Supercapacitors. Journal of the Electrochemical Society, 2012, 159, A364-A369.	1.3	186
45	Enhanced Ultraviolet Emission from Poly(vinyl alcohol) ZnO Nanoparticles Using a SiO₂â€“Au Core/Shell Structure. Nano Letters, 2012, 12, 5840-5844.	4.5	55
46	Surface plasmon resonances of Ga nanoparticle arrays. Applied Physics Letters, 2012, 101, 081905.	1.5	17
47	Flexible Pillared Grapheneâ€Paper Electrodes for Highâ€Performance Electrochemical Supercapacitors. Small, 2012, 8, 452-459.	5.2	297
48	Transmission Electron Microscopy Study of Eu-Doped Y₂O₃ Nanosheets and Nanotubes. Nanoscience and Nanotechnology Letters, 2011, 3, 314-318.	0.4	0
49	Microstructural Analysis of a Laser-Processed Zr-Based Bulk Metallic Glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1752-1757.	1.1	60
50	Formation and coarsening of Ga droplets on focused-ion-beam irradiated GaAs surfaces. Applied Physics Letters, 2009, 95, .	1.5	20
51	Laser deposition of a Cu-based metallic glass powder on a Zr-based glass substrate. Journal of Materials Research, 2008, 23, 2692-2703.	1.2	52
52	Influence of Implanted Aluminum Ions on the Oxidation Behavior of M5 Alloy at 500Â°C. Oxidation of Metals, 2006, 65, 377-390.	1.0	1
53	A New Y3Al5O12 Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). Advanced Materials, 2005, 17, 830-833.	11.1	72
54	Epitaxial Magnetic Perovskite Nanostructures. Advanced Materials, 2005, 17, 2869-2872.	11.1	33

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55	Observation of Strained PdO in an Aged Pd/Ceria-Zirconia Catalyst. Catalysis Letters, 2002, 79, 99-105.	1.4	26
56	Aging-Induced Metal Redistribution in Bimetallic Catalysts. Catalysis Letters, 2002, 81, 1-7.	1.4	14