

# Hongtao Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8741120/publications.pdf>

Version: 2024-02-01

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	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
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. <i>Matter</i> , 2019, 1, 1567-1580.	10.0	82
4	Ultra-high Areal Capacity Realized in Three-Dimensional Holey Graphene/SnO <sub>2</sub> Composite Anodes. <i>IScience</i> , 2019, 19, 728-736.	4.1	40
5	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019, 2, 495-503.	34.4	464
6	Facile and scalable preparation of 3D SnO <sub>2</sub> /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
7	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	12.6	429
8	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2019, 4, 45-60.	48.7	554
9	General synthesis and definitive structural identification of Mn <sub>4</sub> C <sub>4</sub> single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018, 1, 63-72.	34.4	1,476
10	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , 2017, 356, 599-604.	12.6	1,229
11	Three-Dimensional Holey-Graphene/Niobia Composite Architectures for Ultrahigh-Rate Energy Storage. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	2
12	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
13	Stabilizing an amorphous V <sub>2</sub> O <sub>5</sub> /carbon nanotube paper electrode with conformal TiO <sub>2</sub> coating by atomic layer deposition for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 537-544.	10.3	57
14	Amorphous Ultrathin TiO <sub>2</sub> 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
15	Organic-Inorganic Heterointerfaces for Ultrasensitive Detection of Ultraviolet Light. <i>Nano Letters</i> , 2015, 15, 3787-3792.	9.1	117
16	Highly thermally conductive and mechanically strong graphene fibers. <i>Science</i> , 2015, 349, 1083-1087.	12.6	564
17	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
18	Ultrathin gold island films for time-dependent temperature sensing. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	4

#	ARTICLE	IF	CITATIONS
19	Large-Area Freestanding Graphene Paper for Superior Thermal Management. <i>Advanced Materials</i> , 2014, 26, 4521-4526.	21.0	386
20	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
21	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
22	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
23	Advanced Phase Change Composite by Thermally Annealed Defect-Free Graphene for Thermal Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15262-15271.	8.0	113
24	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
25	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
26	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
27	High-Performance Ultraviolet Photodetector Based on Organic-Inorganic Hybrid Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 14690-14694.	8.0	62
28	Silica-Gold Core-Shell Nanosphere for Ultrafast Dynamic Nanothermometer. <i>Advanced Functional Materials</i> , 2014, 24, 2389-2395.	14.9	21
29	High quality ZnO-TiO <sub>2</sub> core-shell nanowires for efficient ultraviolet sensing. <i>Applied Surface Science</i> , 2014, 314, 872-876.	6.1	63
30	Electrospray deposition of a Co <sub>3</sub> O <sub>4</sub> nanoparticles-graphene composite for a binder-free lithium ion battery electrode. <i>RSC Advances</i> , 2014, 4, 1521-1525.	3.6	29
31	Porous Fe <sub>2</sub> O <sub>3</sub> nanorods anchored on nitrogen-doped graphenes and ultrathin Al <sub>2</sub> O <sub>3</sub> coating by atomic layer deposition for long-lived lithium ion battery anode. <i>Carbon</i> , 2014, 76, 141-147.	10.3	46
32	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
33	Pseudocapacitance of Amorphous TiO <sub>2</sub> 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
34	ZnO quantum dots-graphene composite for efficient ultraviolet sensing. <i>Materials Letters</i> , 2013, 112, 165-168.	2.6	21
35	Flexible free-standing graphene-TiO <sub>2</sub> hybrid paper for use as lithium ion battery anode materials. <i>Carbon</i> , 2013, 51, 322-326.	10.3	156
36	3D WO <sub>3</sub> 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

#	ARTICLE	IF	CITATIONS
37	High responsivity, fast ultraviolet photodetector fabricated from ZnO nanoparticle-graphene core-shell structures. <i>Nanoscale</i> , 2013, 5, 3664.	5.6	154
38	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
39	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
40	Atomic layer deposition of amorphous TiO <sub>2</sub> on graphene as an anode for Li-ion batteries. <i>Nanotechnology</i> , 2013, 24, 424002.	2.6	76
41	GRAPHENE AND GRAPHENE-BASED NANOCOMPOSITES: SYNTHESIS AND SUPERCAPACITOR APPLICATIONS. , 2012, , .		0
42	Displacive radiation-induced structural contraction in nanocrystalline ZrN. <i>Applied Physics Letters</i> , 2012, 101, 041904.	3.3	18
43	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
44	Atomic Layer Deposition of TiO <sub>2</sub> on Graphene for Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2012, 159, A364-A369.	2.9	186
45	Enhanced Ultraviolet Emission from Poly(vinyl alcohol) ZnO Nanoparticles Using a SiO <sub>2</sub> -Au Core/Shell Structure. <i>Nano Letters</i> , 2012, 12, 5840-5844.	9.1	55
46	Surface plasmon resonances of Ga nanoparticle arrays. <i>Applied Physics Letters</i> , 2012, 101, 081905.	3.3	17
47	Flexible Pillared Graphene-Paper Electrodes for High-Performance Electrochemical Supercapacitors. <i>Small</i> , 2012, 8, 452-459.	10.0	297
48	Transmission Electron Microscopy Study of Eu-Doped Y <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> /SiO <sub>2</sub> Nanosheets and Nanotubes. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 314-318.	0.4	0
49	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
50	Formation and coarsening of Ga droplets on focused-ion-beam irradiated GaAs surfaces. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	20
51	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
52	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
53	A New Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> Phase Produced by Liquid-Feed Flame Spray Pyrolysis (LF-FSP). <i>Advanced Materials</i> , 2005, 17, 830-833.	21.0	72
54	Epitaxial Magnetic Perovskite Nanostructures. <i>Advanced Materials</i> , 2005, 17, 2869-2872.	21.0	33

#	ARTICLE	IF	CITATIONS
55	Observation of Strained PdO in an Aged Pd/Ceria-Zirconia Catalyst. <i>Catalysis Letters</i> , 2002, 79, 99-105.	2.6	26
56	Aging-Induced Metal Redistribution in Bimetallic Catalysts. <i>Catalysis Letters</i> , 2002, 81, 1-7.	2.6	14