

Yuanlong Shao

List of Publications by Year in descending order

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55
papers

9,242
citations

87723

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149479

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all docs

57
docs citations

57
times ranked

10685
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Mechanisms of Asymmetric Supercapacitors. <i>Chemical Reviews</i> , 2018, 118, 9233-9280.	23.0	2,379
2	Graphene-based materials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2015, 44, 3639-3665.	18.7	1,015
3	Graphene for batteries, supercapacitors and beyond. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	925
4	Synchronous immobilization and conversion of polysulfides on a VO ₂ â€“VN binary host targeting high sulfur load Liâ€“S batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2620-2630.	15.6	465
5	3D Freezeâ€“Casting of Cellular Graphene Films for Ultrahighâ€“Powerâ€“Density Supercapacitors. <i>Advanced Materials</i> , 2016, 28, 6719-6726.	11.1	390
6	Versatile Nâ€“Doped MXene Ink for Printed Electrochemical Energy Storage Application. <i>Advanced Energy Materials</i> , 2019, 9, 1901839.	10.2	301
7	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. <i>Advanced Materials</i> , 2020, 32, e2003425.	11.1	278
8	Flexible quasi-solid-state planar micro-supercapacitor based on cellular graphene films. <i>Materials Horizons</i> , 2017, 4, 1145-1150.	6.4	222
9	Rational design of porous nitrogen-doped Ti3C2 MXene as a multifunctional electrocatalyst for Liâ€“S chemistry. <i>Nano Energy</i> , 2020, 70, 104555.	8.2	194
10	Direct preparation and processing of graphene/RuO ₂ nanocomposite electrodes for high-performance capacitive energy storage. <i>Nano Energy</i> , 2015, 18, 57-70.	8.2	181
11	Flexible perovskite solar cell-driven photo-rechargeable lithium-ion capacitor for self-powered wearable strain sensors. <i>Nano Energy</i> , 2019, 60, 247-256.	8.2	180
12	Designing 3D Biomorphic Nitrogenâ€“Doped MoSe ₂ /Graphene Composites toward Highâ€“Performance Potassiumâ€“Ion Capacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1903878.	7.8	171
13	Printable magnesiumâ€“ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. <i>Nature Communications</i> , 2019, 10, 4913.	5.8	162
14	High-performance flexible asymmetric supercapacitors based on 3D porous graphene/MnO ₂ nanorod and graphene/Ag hybrid thin-film electrodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1245-1251.	2.7	156
15	ZIFâ€“8@ZIFâ€“67â€“Derived Nitrogenâ€“Doped Porous Carbon Confined CoP Polyhedron Targeting Superior Potassiumâ€“Ion Storage. <i>Small</i> , 2020, 16, e1906566.	5.2	136
16	Regulating Oxygen Substituents with Optimized Redox Activity in Chemically Reduced Graphene Oxide for Aqueous Znâ€“Ion Hybrid Capacitor. <i>Advanced Functional Materials</i> , 2021, 31, 2007843.	7.8	127
17	Aluminumâ€“ionâ€“Intercalation Supercapacitors with Ultrahigh Areal Capacitance and Highly Enhanced Cycling Stability: Power Supply for Flexible Electrochromic Devices. <i>Small</i> , 2017, 13, 1700380.	5.2	107
18	Conductive and Catalytic VTe ₂ @MgO Heterostructure as Effective Polysulfide Promotor for Lithiumâ€“Sulfur Batteries. <i>ACS Nano</i> , 2019, 13, 13235-13243.	7.3	107

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19	MOF-derived hierarchical CoP nanoflakes anchored on vertically erected graphene scaffolds as self-supported and flexible hosts for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3027-3034.	5.2	105
20	High-performance all-solid-state yarn supercapacitors based on porous graphene ribbons. <i>Nano Energy</i> , 2015, 12, 26-32.	8.2	101
21	3D Crumpled Ultrathin 1T MoS ₂ for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. <i>ACS Nano</i> , 2020, 14, 7308-7318.	7.3	100
22	Cladding nanostructured AgNWs-MoS ₂ electrode material for high-rate and long-life transparent in-plane micro-supercapacitor. <i>Energy Storage Materials</i> , 2019, 16, 212-219.	9.5	99
23	The Effect of Water on Quinone Redox Mediators in Nonaqueous Li-O ₂ Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 1428-1437.	6.6	88
24	Self-healing flexible/stretchable energy storage devices. <i>Materials Today</i> , 2021, 44, 78-104.	8.3	85
25	Assembly of Nanofluidic MXene Fibers with Enhanced Ionic Transport and Capacitive Charge Storage by Flake Orientation. <i>ACS Nano</i> , 2021, 15, 7821-7832.	7.3	83
26	Flash Converted Graphene for Ultra-High Power Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1500786.	10.2	80
27	Lattice-contraction triggered synchronous electrochromic actuator. <i>Nature Communications</i> , 2018, 9, 4798.	5.8	80
28	Ultrafast rechargeable Zn micro-batteries endowing a wearable solar charging system with high overall efficiency. <i>Energy and Environmental Science</i> , 2021, 14, 1602-1611.	15.6	64
29	Understanding LiOH Formation in a Li-O ₂ Battery with Lil and H ₂ O Additives. <i>ACS Catalysis</i> , 2019, 9, 66-77.	5.5	57
30	MoS ₂ /C/C nanofiber with double-layer carbon coating for high cycling stability and rate capability in lithium-ion batteries. <i>Nano Research</i> , 2018, 11, 5866-5878.	5.8	55
31	Tunable stable operating potential window for high-voltage aqueous supercapacitors. <i>Nano Energy</i> , 2019, 63, 103848.	8.2	55
32	Highly Strong and Elastic Graphene Fibres Prepared from Universal Graphene Oxide Precursors. <i>Scientific Reports</i> , 2014, 4, 4248.	1.6	53
33	Self-standing electrodes with core-shell structures for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 9, 119-125.	9.5	52
34	Niobium pentoxide based materials for high rate rechargeable electrochemical energy storage. <i>Materials Horizons</i> , 2021, 8, 1130-1152.	6.4	51
35	Fabrication of large-area and high-crystallinity photoreduced graphene oxide films via reconstructed two-dimensional multilayer structures. <i>NPG Asia Materials</i> , 2014, 6, e119-e119.	3.8	47
36	1T-Molybdenum disulfide/reduced graphene oxide hybrid fibers as high strength fibrous electrodes for wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3143-3149.	5.2	45

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37	A remote controllable fiber-type near-infrared light-responsive actuator. <i>Chemical Communications</i> , 2017, 53, 11118-11121.	2.2	43
38	Biotemplated Synthesis of Transition Metal Nitride Architectures for Flexible Printed Circuits and Wearable Energy Storages. <i>Advanced Functional Materials</i> , 2018, 28, 1805510.	7.8	43
39	A single-walled carbon nanotubes/poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)/copper hexacyanoferrate hybrid film for high-volumetric performance flexible supercapacitors. <i>Journal of Power Sources</i> , 2018, 386, 96-105.	4.0	34
40	Harmonizing Graphene Laminate Spacing and Zinc Ion Solvated Structure toward Efficient Compact Capacitive Charge Storage. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	31
41	Regulating Interfacial Ion Migration via Wool Keratin Mediated Biogel Electrolyte toward Robust Flexible Zn Ion Batteries. <i>Small</i> , 2022, 18, e2107163.	5.2	30
42	Accelerated Li-S chemistry at a cooperative interface built <i>in situ</i> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 20750-20759.	5.2	28
43	Calligraphy-inspired brush written foldable supercapacitors. <i>Nano Energy</i> , 2017, 38, 428-437.	8.2	26
44	Emerging Two-dimensional Materials Constructed Nanofluidic Fiber: Properties, Preparation and Applications. <i>Advanced Fiber Materials</i> , 2022, 4, 129-144.	7.9	26
45	Manipulating Hierarchical Orientation of Wet-Spun Hybrid Fibers via Rheological Engineering for Zn Ion Fiber Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	25
46	Universal interface and defect engineering dual-strategy for graphene-oxide heterostructures toward promoted Li-S chemistry. <i>Chemical Engineering Journal</i> , 2021, 418, 129407.	6.6	24
47	Room-temperature synthesis of 3-dimensional Ag-graphene hybrid hydrogel with promising electrochemical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 769-774.	1.7	23
48	Recent Advances in Aqueous Zinc Ion Hybrid Capacitors: A Minireview. <i>ChemElectroChem</i> , 2021, 8, 484-491.	1.7	21
49	Characterization of Aniline Tetramer by MALDI TOF Mass Spectrometry upon Oxidative and Reductive Cycling. <i>Polymers</i> , 2016, 8, 401.	2.0	19
50	Crystalline tetra-aniline with chloride interactions towards a biocompatible supercapacitor. <i>Materials Horizons</i> , 2022, 9, 383-392.	6.4	18
51	Triggering the phase transition and capacity enhancement of Nb ₂ O ₅ for fast-charging lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14534-14544.	5.2	14
52	Facile synthesis of colloidal nitrogen-doped titanium carbide sheets with enhanced electrochemical performance. , 2020, 2, 624-634.		13
53	All-inorganic quantum-dot light-emitting-diodes with vertical nickel oxide nanosheets as hole transport layer. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 503-509.	1.8	11
54	Capillary force driven printing of asymmetric Na-ion micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22083-22089.	5.2	8

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55	Rational Design of Mixed Solvent and Porous Graphene-Supported Spinel Oxide Electrodes for High-Rate and Long Cycle-Life Mg Batteries. ACS Applied Materials & Interfaces, 2019, 11, 37595-37601.	4.0	3