

Panpan Zhang

List of Publications by Year in descending order

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69
papers

6,750
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46984

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docs citations

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times ranked

8770
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15491-15495.	7.2	393
2	Two-dimensional materials for miniaturized energy storage devices: from individual devices to smart integrated systems. <i>Chemical Society Reviews</i> , 2018, 47, 7426-7451.	18.7	384
3	Mechanically strong MXene/Kevlar nanofiber composite membranes as high-performance nanofluidic osmotic power generators. <i>Nature Communications</i> , 2019, 10, 2920.	5.8	373
4	Scalable Fabrication and Integration of Graphene Microsupercapacitors through Full Inkjet Printing. <i>ACS Nano</i> , 2017, 11, 8249-8256.	7.3	280
5	Zn-Ion Hybrid Micro-Supercapacitors with Ultrahigh Areal Energy Density and Long-Term Durability. <i>Advanced Materials</i> , 2019, 31, e1806005.	11.1	266
6	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. <i>Angewandte Chemie</i> , 2018, 130, 15717-15721.	1.6	241
7	Ambient-Stable Two-Dimensional Titanium Carbide (MXene) Enabled by Iodine Etching. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8689-8693.	7.2	212
8	Synthesis and sensor applications of MoS ₂ -based nanocomposites. <i>Nanoscale</i> , 2015, 7, 18364-18378.	2.8	202
9	Electrospinning graphene quantum dots into a nanofibrous membrane for dual-purpose fluorescent and electrochemical biosensors. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2487-2496.	2.9	195
10	Fabrication technologies and sensing applications of graphene-based composite films: Advances and challenges. <i>Biosensors and Bioelectronics</i> , 2017, 89, 72-84.	5.3	192
11	Stimulus-Responsive Micro-Supercapacitors with Ultrahigh Energy Density and Reversible Electrochromic Window. <i>Advanced Materials</i> , 2017, 29, 1604491.	11.1	153
12	Fully Conjugated Phthalocyanine Copper Metal-Organic Frameworks for Sodium-Iodine Batteries with Long-Time Cycling Durability. <i>Advanced Materials</i> , 2020, 32, e1905361.	11.1	143
13	Iridium nanoparticles anchored on 3D graphite foam as a bifunctional electrocatalyst for excellent overall water splitting in acidic solution. <i>Nano Energy</i> , 2017, 40, 27-33.	8.2	139
14	Ruthenium/nitrogen-doped carbon as an electrocatalyst for efficient hydrogen evolution in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25314-25318.	5.2	136
15	Nanoscale Graphene Doped with Highly Dispersed Silver Nanoparticles: Quick Synthesis, Facile Fabrication of 3D Membrane-Modified Electrode, and Super Performance for Electrochemical Sensing. <i>Advanced Functional Materials</i> , 2016, 26, 2122-2134.	7.8	135
16	Design and synthesis of electrode materials with both battery-type and capacitive charge storage. <i>Energy Storage Materials</i> , 2019, 22, 235-255.	9.5	135
17	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. <i>Nature Communications</i> , 2019, 10, 4225.	5.8	132
18	Emerging 2D Materials Produced via Electrochemistry. <i>Advanced Materials</i> , 2020, 32, e1907857.	11.1	127

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19	Recent advances in the fabrication and structure-specific applications of graphene-based inorganic hybrid membranes. <i>Nanoscale</i> , 2015, 7, 5080-5093.	2.8	116
20	Self-assembled peptide nanofibers on graphene oxide as a novel nanohybrid for biomimetic mineralization of hydroxyapatite. <i>Carbon</i> , 2015, 89, 20-30.	5.4	116
21	Flexible in-plane micro-supercapacitors: Progresses and challenges in fabrication and applications. <i>Energy Storage Materials</i> , 2020, 28, 160-187.	9.5	113
22	Electrospun Doping of Carbon Nanotubes and Platinum Nanoparticles into the β -Phase Polyvinylidene Difluoride Nanofibrous Membrane for Biosensor and Catalysis Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7563-7571.	4.0	112
23	One-pot green synthesis, characterizations, and biosensor application of self-assembled reduced graphene oxide-gold nanoparticle hybrid membranes. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6525.	2.9	111
24	MoS ₂ nanosheets decorated with gold nanoparticles for rechargeable Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14562-14566.	5.2	107
25	Phthalocyanine-Based 2D Conjugated Metal-Organic Framework Nanosheets for High-Performance Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2002664.	7.8	104
26	Oxidation promoted osmotic energy conversion in black phosphorus membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13959-13966.	3.3	102
27	Promoted oxygen reduction kinetics on nitrogen-doped hierarchically porous carbon by engineering proton-feeding centers. <i>Energy and Environmental Science</i> , 2020, 13, 2849-2855.	15.6	101
28	A Delamination Strategy for Thinly Layered Defect-Free High-Mobility Black Phosphorus Flakes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4677-4681.	7.2	98
29	One-Step Synthesis of Large-Scale Graphene Film Doped with Gold Nanoparticles at Liquid-Air Interface for Electrochemistry and Raman Detection Applications. <i>Langmuir</i> , 2014, 30, 8980-8989.	1.6	97
30	A Stimulus-Responsive Zinc-Iodine Battery with Smart Overcharge Self-Protection Function. <i>Advanced Materials</i> , 2020, 32, e2000287.	11.1	97
31	A High-Voltage, Dendrite-Free, and Durable Zn-Graphite Battery. <i>Advanced Materials</i> , 2020, 32, e1905681.	11.1	96
32	Topochemical Synthesis of Two-Dimensional Transition-Metal Phosphides Using Phosphorene Templates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 465-470.	7.2	94
33	A facile fabrication of large-scale reduced graphene oxide-silver nanoparticle hybrid film as a highly active surface-enhanced Raman scattering substrate. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4126-4133.	2.7	91
34	Thermoswitchable on-chip microsupercapacitors: one potential self-protection solution for electronic devices. <i>Energy and Environmental Science</i> , 2018, 11, 1717-1722.	15.6	79
35	Polyarylimide and porphyrin based polymer microspheres for zinc ion hybrid capacitors. <i>Chemical Engineering Journal</i> , 2021, 405, 127038.	6.6	76
36	Graphene film doped with silver nanoparticles: self-assembly formation, structural characterizations, antibacterial ability, and biocompatibility. <i>Biomaterials Science</i> , 2015, 3, 852-860.	2.6	75

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37	Dual-Redox-Sites Enable Two-Dimensional Conjugated Metal-Organic Frameworks with Large Pseudocapacitance and Wide Potential Window. <i>Journal of the American Chemical Society</i> , 2021, 143, 10168-10176.	6.6	75
38	Electrochemically Exfoliated High-Quality $2H-MoS_2$ for Multiflake Thin Film Flexible Biosensors. <i>Small</i> , 2019, 15, e1901265.	5.2	65
39	Dual-Graphene Rechargeable Sodium Battery. <i>Small</i> , 2017, 13, 1702449.	5.2	64
40	Self-Assembly of Integrated Tubular Microsupercapacitors with Improved Electrochemical Performance and Self-Protective Function. <i>ACS Nano</i> , 2019, 13, 8067-8075.	7.3	57
41	A Dual-Stimuli-Responsive Sodium-Bromine Battery with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018, 30, e1800028.	11.1	56
42	Nano-sandwiched metal hexacyanoferrate/graphene hybrid thin films for in-plane asymmetric micro-supercapacitors with ultrahigh energy density. <i>Materials Horizons</i> , 2019, 6, 1041-1049.	6.4	54
43	A zinc bromine supercapattery system combining triple functions of capacitive, pseudocapacitive and battery-type charge storage. <i>Materials Horizons</i> , 2020, 7, 495-503.	6.4	54
44	Fast preparation of MoS_2 nanoflowers decorated with platinum nanoparticles for electrochemical detection of hydrogen peroxide. <i>RSC Advances</i> , 2016, 6, 52739-52745.	1.7	53
45	Polarity-Switchable Symmetric Graphite Batteries with High Energy and High Power Densities. <i>Advanced Materials</i> , 2018, 30, e1802949.	11.1	51
46	Exposed high-energy facets in ultradispersed sub-10%nm SnO_2 nanocrystals anchored on graphene for pseudocapacitive sodium storage and high-performance quasi-solid-state sodium-ion capacitors. <i>NPG Asia Materials</i> , 2018, 10, 429-440.	3.8	50
47	Amino functionalization optimizes potential distribution: A facile pathway towards high-energy carbon-based aqueous supercapacitors. <i>Nano Energy</i> , 2019, 65, 103987.	8.2	50
48	A Delamination Strategy for Thinly Layered Defect-Free High-Mobility Black Phosphorus Flakes. <i>Angewandte Chemie</i> , 2018, 130, 4767-4771.	1.6	47
49	Surface-Modified Phthalocyanine-Based Two-Dimensional Conjugated Metal-Organic Framework Films for Polarity-Selective Chemiresistive Sensing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18666-18672.	7.2	41
50	Designing Metallic and Insulating Nanocrystal Heterostructures to Fabricate Highly Sensitive and Solution Processed Strain Gauges for Wearable Sensors. <i>Small</i> , 2017, 13, 1702534.	5.2	40
51	Hexagonal boron nitride nanosheet/carbon nanocomposite as a high-performance cathode material towards aqueous asymmetric supercapacitors. <i>Ceramics International</i> , 2019, 45, 4283-4289.	2.3	38
52	Hierarchical architecture of polyaniline nanoneedle arrays on electrochemically exfoliated graphene for supercapacitors and sodium batteries cathode. <i>Materials and Design</i> , 2020, 188, 108440.	3.3	36
53	Coral-Like MoS_2/Cu_2O Porous Nanohybrid with Dual-Electrocatalyst Performances. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600658.	1.9	34
54	Viologen-Immobilized 2D Polymer Film Enabling Highly Efficient Electrochromic Device for Solar-Powered Smart Window. <i>Advanced Materials</i> , 2022, 34, e2106073.	11.1	32

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55	A Nonaqueous Na ⁺ /ion Hybrid Micro ⁺ Supercapacitor with Wide Potential Window and Ultrahigh Areal Energy Density. <i>Batteries and Supercaps</i> , 2019, 2, 918-923.	2.4	30
56	Polymer Brushes on Graphitic Carbon Nitride for Patterning and as a SERS Active Sensing Layer via Incorporated Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9797-9805.	4.0	29
57	An Efficient Rechargeable Aluminium ⁺ Amine Battery Working Under Quaternization Chemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	29
58	Vacancy modification of Prussian-blue nano-thin films for high energy-density micro-supercapacitors with ultralow RC time constant. <i>Nano Energy</i> , 2019, 60, 8-16.	8.2	26
59	Electronic Doping of Metal ⁺ Organic Frameworks for High ⁺ Performance Flexible Micro ⁺ Supercapacitors. <i>Small Structures</i> , 2021, 2, 2000095.	6.9	25
60	Ambient ⁺ Stable Two ⁺ Dimensional Titanium Carbide (MXene) Enabled by Iodine Etching. <i>Angewandte Chemie</i> , 2021, 133, 8771-8775.	1.6	16
61	Functional Electrolytes: Game Changers for Smart Electrochemical Energy Storage Devices. <i>Small Science</i> , 2022, 2, 2100080.	5.8	16
62	Interfacial synthesis of crystalline quasi-two-dimensional polyaniline thin films for high-performance flexible on-chip micro-supercapacitors. <i>Chinese Chemical Letters</i> , 2022, 33, 3921-3924.	4.8	13
63	Spinel LiMn ₂ O ₄ Cathode Materials in Wide Voltage Window: Single-Crystalline versus Polycrystalline. <i>Crystals</i> , 2022, 12, 317.	1.0	10
64	Mussel ⁺ Inspired Nitrogen ⁺ Doped Porous Carbon as Anode Materials for Sodium ⁺ ion Batteries. <i>Energy Technology</i> , 2019, 7, 1800763.	1.8	9
65	Topochemical Synthesis of Two ⁺ Dimensional Transition ⁺ Metal Phosphides Using Phosphorene Templates. <i>Angewandte Chemie</i> , 2020, 132, 473-478.	1.6	8
66	Surface ⁺ Modified Phthalocyanine ⁺ Based Two ⁺ Dimensional Conjugated Metal ⁺ Organic Framework Films for Polarity ⁺ Selective Chemiresistive Sensing. <i>Angewandte Chemie</i> , 2021, 133, 18814-18820.	1.6	7
67	An Efficient Rechargeable Aluminium ⁺ Amine Battery Working Under Quaternization Chemistry. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	7
68	How different mesophases affect the interactive crystallisation of a block co-oligomer. <i>Polymer</i> , 2014, 55, 1893-1900.	1.8	4
69	Facile assembly of layer-interlocked graphene heterostructures as flexible electrodes for Li-ion batteries. <i>Faraday Discussions</i> , 2021, 227, 321-331.	1.6	1