

Hua Bai

List of Publications by Year in descending order

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110
papers

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34016

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22764

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113
all docs

113
docs citations

113
times ranked

22451
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemically reduced graphene oxide: Preparation, composites, and applications. Carbon, 2022, 191, 301-332.	5.4	44
2	Three-Dimensional Printing and Recycling of Multifunctional Composite Material Based on Commercial Epoxy Resin and Graphene Nanoplatelet. ACS Applied Materials & Interfaces, 2022, 14, 13758-13767.	4.0	16
3	Improving the volumetric specific capacitance of flexible polyaniline electrode: solution casting method and effect of reduced graphene oxide sheets. Science China Materials, 2021, 64, 571-580.	3.5	2
4	Continuous and Patterned Conducting Polymer Coatings on Diverse Substrates: Rapid Fabrication by Oxidant-Intermediated Surface Polymerization and Application in Flexible Devices. ACS Applied Materials & Interfaces, 2021, 13, 5583-5591.	4.0	10
5	Electric field-induced switching among multiple conductance pathways in single-molecule junctions. Chemical Communications, 2021, 57, 7160-7163.	2.2	8
6	Thymine as a Biocompatible Surface Passivator for a Highly Efficient and Stable Planar Perovskite Solar Cell. ACS Applied Energy Materials, 2021, 4, 3310-3316.	2.5	6
7	3D printed stretchable smart fibers and textiles for self-powered e-skin. Nano Energy, 2021, 84, 105866.	8.2	75
8	Spontaneous Adsorption of Graphene Oxide on Multiple Polymeric Surfaces. Langmuir, 2021, 37, 8829-8839.	1.6	3
9	Manipulating the elasticity of chemically modified graphene aerogel through water surface plasticization. Carbon, 2021, 184, 43-52.	5.4	5
10	Bioinspired Compartmentalization Strategy for Coating Polymers with Self-Organized Prismatic Films. Chemistry of Materials, 2021, 33, 9240-9251.	3.2	7
11	Superacid-doped polyaniline as a soluble polymeric active electrolyte for supercapacitors. Soft Matter, 2020, 16, 7305-7311.	1.2	10
12	3D Printing of a Polydimethylsiloxane/Polytetrafluoroethylene Composite Elastomer and its Application in a Triboelectric Nanogenerator. ACS Applied Materials & Interfaces, 2020, 12, 57441-57449.	4.0	55
13	High-Quality Concentrated Precursor Solution in <i>N,N</i> -Dimethylformamide for Thick Methylammonium Triiodoplumbate Layer in Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25972-25979.	4.0	5
14	Facile synthesis of multi-functional elastic polyaniline/polyvinyl alcohol composite gels by a solution assembly method. RSC Advances, 2020, 10, 22019-22026.	1.7	14
15	A mixed solvent for rapid fabrication of large-area methylammonium lead iodide layers by one-step coating at room temperature. Journal of Materials Chemistry A, 2019, 7, 18275-18284.	5.2	28
16	Effects of CO ₂ accumulation during cycling of a Li-O ₂ battery on the transition of discharge product and performance fading. Nano Energy, 2019, 66, 104171.	8.2	8
17	Organic Solvent-Assisted Lyophilization: A Universal Method of Preparing Two-Dimensional Material Nanoscrolls. ACS Omega, 2019, 4, 7420-7427.	1.6	6
18	Three-Dimensional Printing of Polyaniline/Reduced Graphene Oxide Composite for High-Performance Planar Supercapacitor. ACS Applied Materials & Interfaces, 2018, 10, 10437-10444.	4.0	175

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19	A self-assembly route to porous polyaniline/reduced graphene oxide composite materials with molecular-level uniformity for high-performance supercapacitors. <i>Energy and Environmental Science</i> , 2018, 11, 1280-1286.	15.6	213
20	A high-performance electrochemical supercapacitor based on a polyaniline/reduced graphene oxide electrode and a copper(II) ion active electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 131-136.	1.3	41
21	Nanocombing Effect Leads to Nanowire-Based, in-Plane, Uniaxial Thin Films. <i>ACS Nano</i> , 2018, 12, 12701-12712.	7.3	12
22	Hierarchical porous carbon microspheres with superhydrophilic surface for efficient adsorption and detection of water-soluble contaminants. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12153-12161.	5.2	35
23	Inhibiting the growth of lithium dendrites at high current densities with oriented graphene foam. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15603-15609.	5.2	25
24	A Hydrogel of Ultrathin Pure Polyaniline Nanofibers: Oxidant-Templating Preparation and Supercapacitor Application. <i>ACS Nano</i> , 2018, 12, 5888-5894.	7.3	177
25	Porosity-Enhanced Polymers from Hyper-Cross-Linked Polymer Precursors. <i>Macromolecules</i> , 2017, 50, 956-962.	2.2	46
26	Breath Figure in Reactive Vapor: A New Route to Nanopore Array. <i>Langmuir</i> , 2017, 33, 347-352.	1.6	11
27	One-step preparation of hierarchically porous polyureas: Simultaneous foaming and hyper-crosslinking. <i>Polymer</i> , 2017, 108, 332-338.	1.8	16
28	Degradation-induced capacitance: a new insight into the superior capacitive performance of polyaniline/graphene composites. <i>Energy and Environmental Science</i> , 2017, 10, 2372-2382.	15.6	156
29	Benzoyl Peroxide as an Efficient Dopant for Spiro-OMeTAD in Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 3098-3104.	3.6	37
30	Microporous Organic Polymers Based on Hyper-Crosslinked Coal Tar: Preparation and Application for Gas Adsorption. <i>ChemSusChem</i> , 2017, 10, 618-623.	3.6	30
31	Influence of microstructural features on thermal expansion coefficient in graphene/epoxy composites. <i>Heliyon</i> , 2016, 2, e00094.	1.4	18
32	Preparation of PAN nanofiltration membranes by supercritical-CO ₂ -induced phase separation. <i>Journal of Supercritical Fluids</i> , 2016, 118, 89-95.	1.6	7
33	Phase-Separated Polyaniline/Graphene Composite Electrodes for High-Rate Electrochemical Supercapacitors. <i>Advanced Materials</i> , 2016, 28, 10211-10216.	11.1	130
34	Pitch-based hyper-cross-linked polymers with high performance for gas adsorption. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16490-16498.	5.2	110
35	A Facile Method to Prepare Three-Dimensional Fe ₂ O ₃ /Graphene Composites as the Electrode Materials for Supercapacitors. <i>Chinese Journal of Chemistry</i> , 2016, 34, 67-72.	2.6	35
36	Hybrid microporous polymers from double-decker-shaped silsesquioxane building blocks via Friedel-Crafts reaction. <i>Polymer</i> , 2016, 101, 388-394.	1.8	14

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37	Bottom-Up Preparation of Ultrathin 2D Aluminum Oxide Nanosheets by Duplicating Graphene Oxide. <i>Advanced Materials</i> , 2016, 28, 1703-1708.	11.1	69
38	Massive preparation of pitch-based organic microporous polymers for gas storage. <i>Chemical Communications</i> , 2016, 52, 2780-2783.	2.2	62
39	Metallic Fabrics as the Current Collector for High-Performance Graphene-Based Flexible Solid-State Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4724-4729.	4.0	119
40	Hyper-Cross-Linked Organic Microporous Polymers Based on Alternating Copolymerization of Bismaleimide. <i>ACS Macro Letters</i> , 2016, 5, 377-381.	2.3	67
41	Multi-length scale porous polymer films from hypercrosslinked breath figure arrays. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 179-184.	5.0	20
42	Hierarchically porous polystyrene membranes fabricated via a CO ₂ -expanded liquid selective swelling and in situ hyper-cross-linking method. <i>RSC Advances</i> , 2015, 5, 68639-68645.	1.7	5
43	One-step synthesis of polyhydroquinone-graphene hydrogel composites for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16033-16039.	5.2	31
44	Ultra-light and elastic graphene foams with a hierarchical structure and a high oil absorption capacity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22687-22694.	5.2	34
45	Breath Figure: A Nature-Inspired Preparation Method for Ordered Porous Films. <i>Chemical Reviews</i> , 2015, 115, 9801-9868.	23.0	374
46	Magnetron Sputtered Zinc Oxide Nanorods as Thickness-Insensitive Cathode Interlayer for Perovskite Planar-Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20585-20589.	4.0	63
47	Synthesis of metal nanoparticle-graphene hydrogel composites by substrate-enhanced electroless deposition and their application in electrochemical sensors. <i>RSC Advances</i> , 2014, 4, 9133.	1.7	28
48	Mechanism investigation and suppression of self-discharge in active electrolyte enhanced supercapacitors. <i>Energy and Environmental Science</i> , 2014, 7, 1750-1759.	15.6	267
49	Polymeric nanoporous materials fabricated with supercritical CO ₂ and CO ₂ -expanded liquids. <i>Chemical Society Reviews</i> , 2014, 43, 6938-6953.	18.7	65
50	Electrochemical supercapacitor with polymeric active electrolyte. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10526-10531.	5.2	46
51	Formation of Breath Figure Arrays in Methanol Vapor Assisted by Surface Active Agents. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8921-8927.	4.0	17
52	Poly(dimethylsiloxane) Oil Absorbent with a Three-Dimensionally Interconnected Porous Structure and Swellable Skeleton. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10201-10206.	4.0	206
53	Breath Figure Arrays: Unconventional Fabrications, Functionalizations, and Applications. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12240-12255.	7.2	163
54	Basic aluminum sulfate-graphene hydrogel composites: preparation and application for removal of fluoride. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13101.	5.2	73

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55	Formation of nanoscale networks: selectively swelling amphiphilic block copolymers with CO ₂ -expanded liquids. <i>Nanoscale</i> , 2013, 5, 1195.	2.8	17
56	Graphene oxide-chitosan composite hydrogels as broad-spectrum adsorbents for water purification. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1992-2001.	5.2	582
57	Breath figure in non-aqueous vapor. <i>Soft Matter</i> , 2013, 9, 506-514.	1.2	52
58	Robust Microsieves with Excellent Solvent Resistance: Cross-Linkage of Perforated Polymer Films with Honeycomb Structure. <i>ACS Macro Letters</i> , 2013, 2, 27-30.	2.3	61
59	Three-dimensional porous graphene-based composite materials: electrochemical synthesis and application. <i>Journal of Materials Chemistry</i> , 2012, 22, 20968.	6.7	224
60	Electrochemically reduced graphene porous material as light absorber for light-driven thermoelectric generator. <i>Journal of Materials Chemistry</i> , 2012, 22, 17800.	6.7	42
61	Synthesis of CaCO ₃ /graphene composite crystals for ultra-strong structural materials. <i>RSC Advances</i> , 2012, 2, 2154.	1.7	40
62	Constructing honeycomb micropatterns on nonplanar substrates with high glass transition temperature polymers. <i>Journal of Colloid and Interface Science</i> , 2012, 380, 99-104.	5.0	27
63	Load-tolerant, highly strain-responsive graphene sheets. <i>Journal of Materials Chemistry</i> , 2011, 21, 2057.	6.7	55
64	Disassembly-driven colorimetric and fluorescent sensor for anionic surfactants in water based on a conjugated polyelectrolyte/dye complex. <i>Soft Matter</i> , 2011, 7, 6873.	1.2	25
65	Highly conductive and flexible mesoporous graphitic films prepared by graphitizing the composites of graphene oxide and nanodiamond. <i>Journal of Materials Chemistry</i> , 2011, 21, 7154.	6.7	85
66	A graphene oxide/hemoglobin composite hydrogel for enzymatic catalysis in organic solvents. <i>Chemical Communications</i> , 2011, 47, 4962.	2.2	225
67	Size Fractionation of Graphene Oxide Sheets by pH-Assisted Selective Sedimentation. <i>Journal of the American Chemical Society</i> , 2011, 133, 6338-6342.	6.6	293
68	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. <i>Journal of Materials Chemistry</i> , 2011, 21, 13978.	6.7	51
69	Colorimetric Assays for Acetylcholinesterase Activity and Inhibitor Screening Based on the Disassembly/Assembly of a Water-Soluble Polythiophene Derivative. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1306-1310.	4.0	81
70	High-performance supercapacitor electrodes based on graphene hydrogels modified with 2-aminoanthraquinone moieties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11193.	1.3	167
71	On the Gelation of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5545-5551.	1.5	603
72	Layer-by-layer assembly of graphene/polyaniline multilayer films and their application for electrochromic devices. <i>Polymer</i> , 2011, 52, 5567-5572.	1.8	145

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73	Graphene oxide/conducting polymer composite hydrogels. <i>Journal of Materials Chemistry</i> , 2011, 21, 18653.	6.7	283
74	Colorimetric and fluorescent dual probe based on a polythiophene derivative for the detection of cysteine and homocysteine. <i>Chemical Communications</i> , 2011, 47, 7431.	2.2	99
75	Electrochemical detection of dioxygen and hydrogen peroxide by hemin immobilized on chemically converted graphene. <i>Journal of Electroanalytical Chemistry</i> , 2011, 657, 34-38.	1.9	52
76	Functional Composite Materials Based on Chemically Converted Graphene. <i>Advanced Materials</i> , 2011, 23, 1089-1115.	11.1	973
77	Functional Composite Materials Based on Chemically Converted Graphene (<i>Adv. Mater.</i> 9/2011). <i>Advanced Materials</i> , 2011, 23, 1088-1088.	11.1	13
78	Electrically conductive and mechanically strong biomimetic chitosan/reduced graphene oxide composite films. <i>Journal of Materials Chemistry</i> , 2010, 20, 9032.	6.7	231
79	Preparation of Gold Nanoparticle/Graphene Composites with Controlled Weight Contents and Their Application in Biosensors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1822-1826.	1.5	389
80	Electrochemical Deposition of Polypyrrole/Sulfonated Graphene Composite Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22783-22789.	1.5	236
81	Three-Dimensional Self-Assembly of Graphene Oxide and DNA into Multifunctional Hydrogels. <i>ACS Nano</i> , 2010, 4, 7358-7362.	7.3	788
82	An Asymmetrically Surface-Modified Graphene Film Electrochemical Actuator. <i>ACS Nano</i> , 2010, 4, 6050-6054.	7.3	242
83	A pH-sensitive graphene oxide composite hydrogel. <i>Chemical Communications</i> , 2010, 46, 2376.	2.2	617
84	Electrosynthesis of oligo(methoxyl pyrene) for turn-on fluorescence detection of volatile aromatic compounds. <i>Journal of Materials Chemistry</i> , 2010, 20, 2993.	6.7	23
85	Chemically converted graphene as substrate for immobilizing and enhancing the activity of a polymeric catalyst. <i>Chemical Communications</i> , 2010, 46, 4740.	2.2	287
86	Analyte-induced aggregation of conjugated polyelectrolytes: role of the charged moieties and its sensing application. <i>Chemical Communications</i> , 2010, 46, 5094.	2.2	39
87	Micro-nanoscale binary structured silver films fabricated by electrochemical deposition. <i>Materials Chemistry and Physics</i> , 2009, 114, 120-124.	2.0	17
88	A water-soluble cationic oligopyrene derivative: Spectroscopic studies and sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 563-571.	4.0	55
89	Composite nanofibers of conducting polymers and hydrophobic insulating polymers: Preparation and sensing applications. <i>Polymer</i> , 2009, 50, 3292-3301.	1.8	88
90	Strong and ductile poly(vinyl alcohol)/graphene oxide composite films with a layered structure. <i>Carbon</i> , 2009, 47, 3538-3543.	5.4	671

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91	Flexible Sandwich Photodetectors Based on Thick Polythiophene Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7411-7415.	1.5	13
92	Non-covalent functionalization of graphene sheets by sulfonated polyaniline. <i>Chemical Communications</i> , 2009, , 1667.	2.2	569
93	Conducting polymer nanomaterials: electrosynthesis and applications. <i>Chemical Society Reviews</i> , 2009, 38, 2397.	18.7	615
94	Fluorescence detection of mercury ions in aqueous media with the complex of a cationic oligopyrene derivative and oligothymine. <i>Analyst</i> , The, 2009, 134, 2081.	1.7	28
95	Chemically Converted Graphene Induced Molecular Flattening of 5,10,15,20-Tetrakis(1-methyl-4-pyridinio)porphyrin and Its Application for Optical Detection of Cadmium(II) Ions. <i>Journal of the American Chemical Society</i> , 2009, 131, 13490-13497.	6.6	497
96	Polypyrrole Actuator with a Bioadhesive Surface for Accumulating Bacteria from Physiological Media. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 951-955.	4.0	39
97	Pyrenyl Excimers Induced by the Crystallization of POSS Moieties: Spectroscopic Studies and Sensing Applications. <i>ChemPhysChem</i> , 2008, 9, 1908-1913.	1.0	9
98	Rapid nitroaromatic compounds sensing based on oligopyrene. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 777-782.	4.0	66
99	Flexible Graphene Films via the Filtration of Water-Soluble Noncovalent Functionalized Graphene Sheets. <i>Journal of the American Chemical Society</i> , 2008, 130, 5856-5857.	6.6	3,085
100	Layer-by-Layer Deposited Multilayer Films of Oligo(pyrenebutyric acid) and a Perylene Diimide Derivative: Structure and Photovoltaic Properties. <i>Langmuir</i> , 2008, 24, 4380-4387.	1.6	32
101	Electrochemical Fabrication of Superhydrophobic Surfaces on Metal and Semiconductor Substrates. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 1819-1839.	1.4	15
102	Drying Enhanced Adhesion of Polythiophene Nanotubule Arrays on Smooth Surfaces. <i>ACS Nano</i> , 2008, 2, 2342-2348.	7.3	52
103	Gas Sensors Based on Conducting Polymers. <i>Sensors</i> , 2007, 7, 267-307.	2.1	1,323
104	Electrosynthesis of polypyrrole/sulfonated polyaniline composite films and their applications for ammonia gas sensing. <i>Polymer</i> , 2007, 48, 4015-4020.	1.8	73
105	Aligned three-dimensional microstructures of conducting polymer composites. <i>Polymer</i> , 2007, 48, 5259-5267.	1.8	36
106	Memory devices based on organic electric bistable materials. <i>Science Bulletin</i> , 2007, 52, 2017-2023.	1.7	5
107	Controlled one-step fabrication of highly oriented ZnO nanoneedle/nanorods arrays at near room temperature. <i>Chemical Communications</i> , 2006, , 1655.	2.2	69
108	Synthesis and characterization of poly(1,5-naphthylene vinylene) and its copolymers with poly(2-methoxy-5-(2-ethylhexyloxy)-p-phenylene vinylene). <i>Polymer</i> , 2006, 47, 1533-1537.	1.8	13

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109	Electrosynthesis of small polypyrrole microcontainers. Journal of Electroanalytical Chemistry, 2006, 597, 13-18.	1.9	19
110	Copper Hydroxide Nanoneedle and Nanotube Arrays Fabricated by Anodization of Copper. Journal of Physical Chemistry B, 2005, 109, 22836-22842.	1.2	149