Hua Bai

List of Publications by Year
in descending order

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110 papers	17,896 citations	34105 52 h-index	22832 112 g-index
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.	10.3	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.	8.0	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.	6.3	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.	8.0	10
5	Electric field-induced switching among multiple conductance pathways in single-molecule junctions. Chemical Communications, 2021, 57, 7160-7163.	4.1	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.	5.1	6
7	3D printed stretchable smart fibers and textiles for self-powered e-skin. Nano Energy, 2021, 84, 105866.	16.0	75
8	Spontaneous Adsorption of Graphene Oxide on Multiple Polymeric Surfaces. Langmuir, 2021, 37, 8829-8839.	3.5	3
9	Manipulating the elasticity of chemically modified graphene aerogel through water surface plasticization. Carbon, 2021, 184, 43-52.	10.3	5
10	Bioinspired Compartmentalization Strategy for Coating Polymers with Self-Organized Prismatic Films. Chemistry of Materials, 2021, 33, 9240-9251.	6.7	7
11	Superacid-doped polyaniline as a soluble polymeric active electrolyte for supercapacitors. Soft Matter, 2020, 16, 7305-7311.	2.7	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.	8.0	55
13	High-Quality Concentrated Precursor Solution in N,N-Dimethylformamide for Thick Methylammonium Triiodoplumbate Layer in Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25972-25979.	8.0	5
14	Facile synthesis of multi-functional elastic polyaniline/polyvinyl alcohol composite gels by a solution assembly method. RSC Advances, 2020, 10, 22019-22026.	3.6	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.	10.3	28
16	Effects of CO2 accumulation during cycling of a Liâ€“O2 battery on the transition of discharge product and performance fading. Nano Energy, 2019, 66, 104171.	16.0	8
17	Organic Solvent-Assisted Lyophilization: A Universal Method of Preparing Two-Dimensional Material Nanoscrolls. ACS Omega, 2019, 4, 7420-7427.	3.5	6
18	Three-Dimensional Printing of Polyaniline/Reduced Graphene Oxide Composite for High-Performance Planar Supercapacitor. ACS Applied Materials & Interfaces, 2018, 10, 10437-10444.	8.0	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. Energy and Environmental Science, 2018, 11, 1280-1286.	30.8	213
20	A high-performance electrochemical supercapacitor based on a polyaniline/reduced graphene oxide electrode and a copper(<scp>ii</scp>) ion active electrolyte. Physical Chemistry Chemical Physics, 2018, 20, 131-136.	2.8	41
21	Nanocombing Effect Leads to Nanowire-Based, in-Plane, Uniaxial Thin Films. ACS Nano, 2018, 12, 12701-12712.	14.6	12
22	Hierarchical porous carbon microspheres with superhydrophilic surface for efficient adsorption and detection of water-soluble contaminants. Journal of Materials Chemistry A, 2018, 6, 12153-12161.	10.3	35
23	Inhibiting the growth of lithium dendrites at high current densities with oriented graphene foam. Journal of Materials Chemistry A, 2018, 6, 15603-15609.	10.3	25
24	A Hydrogel of Ultrathin Pure Polyaniline Nanofibers: Oxidant-Templating Preparation and Supercapacitor Application. ACS Nano, 2018, 12, 5888-5894.	14.6	177
25	Porosity-Enhanced Polymers from Hyper-Cross-Linked Polymer Precursors. Macromolecules, 2017, 50, 956-962.	4.8	46
26	Breath Figure in Reactive Vapor: A New Route to Nanopore Array. Langmuir, 2017, 33, 347-352.	3.5	11
27	One-step preparation of hierarchically porous polyureas: Simultaneous foaming and hyper-crosslinking. Polymer, 2017, 108, 332-338.	3.8	16
28	Degradation-induced capacitance: a new insight into the superior capacitive performance of polyaniline/graphene composites. Energy and Environmental Science, 2017, 10, 2372-2382.	30.8	156
29	Benzoyl Peroxide as an Efficient Dopant for Spiroâ€OMeTAD in Perovskite Solar Cells. ChemSusChem, 2017, 10, 3098-3104.	6.8	37
30	Microporous Organic Polymers Based on Hyperâ€Crosslinked Coal Tar: Preparation and Application for Gas Adsorption. ChemSusChem, 2017, 10, 618-623.	6.8	30
31	Influence of microstructural features on thermal expansion coefficient in graphene/epoxy composites. Heliyon, 2016, 2, e00094.	3.2	18
32	Preparation of PAN nanofiltration membranes by supercritical-CO 2 -induced phase separation. Journal of Supercritical Fluids, 2016, 118, 89-95.	3.2	7
33	Phaseâ€Separated Polyaniline/Graphene Composite Electrodes for Highâ€Rate Electrochemical Supercapacitors. Advanced Materials, 2016, 28, 10211-10216.	21.0	130
34	Pitch-based hyper-cross-linked polymers with high performance for gas adsorption. Journal of Materials Chemistry A, 2016, 4, 16490-16498.	10.3	110
35	A Facile Method to Prepare Threeâ€Dimensional Fe₂O₃/Graphene Composites as the Electrode Materials for Supercapacitors. Chinese Journal of Chemistry, 2016, 34, 67-72.	4.9	35
36	Hybrid microporous polymers from double-decker-shaped silsesquioxane building blocks via Friedel-Crafts reaction. Polymer, 2016, 101, 388-394.	3.8	14

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37	Bottomâ€Up Preparation of Ultrathin 2D Aluminum Oxide Nanosheets by Duplicating Graphene Oxide. Advanced Materials, 2016, 28, 1703-1708.	21.0	69
38	Massive preparation of pitch-based organic microporous polymers for gas storage. Chemical Communications, 2016, 52, 2780-2783.	4.1	62
39	Metallic Fabrics as the Current Collector for High-Performance Graphene-Based Flexible Solid-State Supercapacitor. ACS Applied Materials & Interfaces, 2016, 8, 4724-4729.	8.0	119
40	Hyper-Cross-Linked Organic Microporous Polymers Based on Alternating Copolymerization of Bismaleimide. ACS Macro Letters, 2016, 5, 377-381.	4.8	67
41	Multi-length scale porous polymer films from hypercrosslinked breath figure arrays. Journal of Colloid and Interface Science, 2016, 461, 179-184.	9.4	20
42	Hierarchically porous polystyrene membranes fabricated via a CO₂-expanded liquid selective swelling and in situ hyper-cross-linking method. RSC Advances, 2015, 5, 68639-68645.	3.6	5
43	One-step synthesis of polyhydroquinoneâ€“graphene hydrogel composites for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 16033-16039.	10.3	31
44	Ultra-light and elastic graphene foams with a hierarchical structure and a high oil absorption capacity. Journal of Materials Chemistry A, 2015, 3, 22687-22694.	10.3	34
45	Breath Figure: A Nature-Inspired Preparation Method for Ordered Porous Films. Chemical Reviews, 2015, 115, 9801-9868.	47.7	374
46	Magnetron Sputtered Zinc Oxide Nanorods as Thickness-Insensitive Cathode Interlayer for Perovskite Planar-Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 20585-20589.	8.0	63
47	Synthesis of metal nanoparticle@graphene hydrogel composites by substrate-enhanced electroless deposition and their application in electrochemical sensors. RSC Advances, 2014, 4, 9133.	3.6	28
48	Mechanism investigation and suppression of self-discharge in active electrolyte enhanced supercapacitors. Energy and Environmental Science, 2014, 7, 1750-1759.	30.8	267
49	Polymeric nanoporous materials fabricated with supercritical CO₂ and CO₂-expanded liquids. Chemical Society Reviews, 2014, 43, 6938-6953.	38.1	65
50	Electrochemical supercapacitor with polymeric active electrolyte. Journal of Materials Chemistry A, 2014, 2, 10526-10531.	10.3	46
51	Formation of Breath Figure Arrays in Methanol Vapor Assisted by Surface Active Agents. ACS Applied Materials & Interfaces, 2014, 6, 8921-8927.	8.0	17
52	Poly(dimethylsiloxane) Oil Absorbent with a Three-Dimensionally Interconnected Porous Structure and Swellable Skeleton. ACS Applied Materials & Interfaces, 2013, 5, 10201-10206.	8.0	206
53	Breath Figure Arrays: Unconventional Fabrications, Functionalizations, and Applications. Angewandte Chemie - International Edition, 2013, 52, 12240-12255.	13.8	163
54	Basic aluminum sulfate@graphene hydrogel composites: preparation and application for removal of fluoride. Journal of Materials Chemistry A, 2013, 1, 13101.	10.3	73

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55	Formation of nanoscale networks: selectively swelling amphiphilic block copolymers with CO2-expanded liquids. Nanoscale, 2013, 5, 1195.	5.6	17
56	Graphene oxideâ€“chitosan composite hydrogels as broad-spectrum adsorbents for water purification. Journal of Materials Chemistry A, 2013, 1, 1992-2001.	10.3	582
57	Breath figure in non-aqueous vapor. Soft Matter, 2013, 9, 506-514.	2.7	52
58	Robust Microsieves with Excellent Solvent Resistance: Cross-Linkage of Perforated Polymer Films with Honeycomb Structure. ACS Macro Letters, 2013, 2, 27-30.	4.8	61
59	Three-dimensional porous graphene-based composite materials: electrochemical synthesis and application. Journal of Materials Chemistry, 2012, 22, 20968.	6.7	224
60	Electrochemically reduced graphene porous material as light absorber for light-driven thermoelectric generator. Journal of Materials Chemistry, 2012, 22, 17800.	6.7	42
61	Synthesis of CaCO3/graphene composite crystals for ultra-strong structural materials. RSC Advances, 2012, 2, 2154.	3.6	40
62	Constructing honeycomb micropatterns on nonplanar substrates with high glass transition temperature polymers. Journal of Colloid and Interface Science, 2012, 380, 99-104.	9.4	27
63	Load-tolerant, highly strain-responsive graphene sheets. Journal of Materials Chemistry, 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. Soft Matter, 2011, 7, 6873.	2.7	25
65	Highly conductive and flexible mesoporous graphitic films prepared by graphitizing the composites of graphene oxide and nanodiamond. Journal of Materials Chemistry, 2011, 21, 7154.	6.7	85
66	A graphene oxide/hemoglobin composite hydrogel for enzymatic catalysis in organic solvents. Chemical Communications, 2011, 47, 4962.	4.1	225
67	Size Fractionation of Graphene Oxide Sheets by pH-Assisted Selective Sedimentation. Journal of the American Chemical Society, 2011, 133, 6338-6342.	13.7	293
68	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. Journal of Materials Chemistry, 2011, 21, 13978.	6.7	51
69	Colorimetric Assays for Acetylcholinesterase Activity and Inhibitor Screening Based on the Disassemblyâ€“Assembly of a Water-Soluble Polythiophene Derivative. ACS Applied Materials & Interfaces, 2011, 3, 1306-1310.	8.0	81
70	High-performance supercapacitor electrodes based on graphene hydrogels modified with 2-aminoanthraquinone moieties. Physical Chemistry Chemical Physics, 2011, 13, 11193.	2.8	167
71	On the Gelation of Graphene Oxide. Journal of Physical Chemistry C, 2011, 115, 5545-5551.	3.1	603
72	Layer-by-layer assembly of graphene/polyaniline multilayer films and their application for electrochromic devices. Polymer, 2011, 52, 5567-5572.	3.8	145

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73	Graphene oxide/conducting polymer composite hydrogels. Journal of Materials Chemistry, 2011, 21, 18653.	6.7	283
74	Colorimetric and fluorescent dual probe based on a polythiophene derivative for the detection of cysteine and homocysteine. Chemical Communications, 2011, 47, 7431.	4.1	99
75	Electrochemical detection of dioxygen and hydrogen peroxide by hemin immobilized on chemically converted graphene. Journal of Electroanalytical Chemistry, 2011, 657, 34-38.	3.8	52
76	Functional Composite Materials Based on Chemically Converted Graphene. Advanced Materials, 2011, 23, 1089-1115.	21.0	973
77	Functional Composite Materials Based on Chemically Converted Graphene (Adv. Mater. 9/2011). Advanced Materials, 2011, 23, 1088-1088.	21.0	13
78	Electrically conductive and mechanically strong biomimetic chitosan/reduced graphene oxide composite films. Journal of Materials Chemistry, 2010, 20, 9032.	6.7	231
79	Preparation of Gold Nanoparticle/Graphene Composites with Controlled Weight Contents and Their Application in Biosensors. Journal of Physical Chemistry C, 2010, 114, 1822-1826.	3.1	389
80	Electrochemical Deposition of Polypyrrole/Sulfonated Graphene Composite Films. Journal of Physical Chemistry C, 2010, 114, 22783-22789.	3.1	236
81	Three-Dimensional Self-Assembly of Graphene Oxide and DNA into Multifunctional Hydrogels. ACS Nano, 2010, 4, 7358-7362.	14.6	788
82	An Asymmetrically Surface-Modified Graphene Film Electrochemical Actuator. ACS Nano, 2010, 4, 6050-6054.	14.6	242
83	A pH-sensitive graphene oxide composite hydrogel. Chemical Communications, 2010, 46, 2376.	4.1	617
84	Electrosynthesis of oligo(methoxyl pyrene) for turn-on fluorescence detection of volatile aromatic compounds. Journal of Materials Chemistry, 2010, 20, 2993.	6.7	23
85	Chemically converted graphene as substrate for immobilizing and enhancing the activity of a polymeric catalyst. Chemical Communications, 2010, 46, 4740.	4.1	287
86	Analyte-induced aggregation of conjugated polyelectrolytes: role of the charged moieties and its sensing application. Chemical Communications, 2010, 46, 5094.	4.1	39
87	Micro-nanoscale binary structured silver films fabricated by electrochemical deposition. Materials Chemistry and Physics, 2009, 114, 120-124.	4.0	17
88	A water-soluble cationic oligopyrene derivative: Spectroscopic studies and sensing applications. Sensors and Actuators B: Chemical, 2009, 138, 563-571.	7.8	55
89	Composite nanofibers of conducting polymers and hydrophobic insulating polymers: Preparation and sensing applications. Polymer, 2009, 50, 3292-3301.	3.8	88
90	Strong and ductile poly(vinyl alcohol)/graphene oxide composite films with a layered structure. Carbon, 2009, 47, 3538-3543.	10.3	671

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91	Flexible Sandwich Photodetectors Based on Thick Polythiophene Films. Journal of Physical Chemistry C, 2009, 113, 7411-7415.	3.1	13
92	Non-covalent functionalization of graphene sheets by sulfonated polyaniline. Chemical Communications, 2009, , 1667.	4.1	569
93	Conducting polymer nanomaterials: electrosynthesis and applications. Chemical Society Reviews, 2009, 38, 2397.	38.1	615
94	Fluorescence detection of mercury ions in aqueous media with the complex of a cationic oligopyrene derivative and oligothymine. Analyst, The, 2009, 134, 2081.	3.5	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. Journal of the American Chemical Society, 2009, 131, 13490-13497.	13.7	497
96	Polypyrrole Actuator with a Bioadhesive Surface for Accumulating Bacteria from Physiological Media. ACS Applied Materials & Interfaces, 2009, 1, 951-955.	8.0	39
97	Pyrenyl Excimers Induced by the Crystallization of POSS Moieties: Spectroscopic Studies and Sensing Applications. ChemPhysChem, 2008, 9, 1908-1913.	2.1	9
98	Rapid nitroaromatic compounds sensing based on oligopyrene. Sensors and Actuators B: Chemical, 2008, 130, 777-782.	7.8	66
99	Flexible Graphene Films via the Filtration of Water-Soluble Noncovalent Functionalized Graphene Sheets. Journal of the American Chemical Society, 2008, 130, 5856-5857.	13.7	3,085
100	Layer-by-Layer Deposited Multilayer Films of Oligo(pyrenebutyric acid) and a Perylene Diimide Derivative:â€‰ Structure and Photovoltaic Properties. Langmuir, 2008, 24, 4380-4387.	3.5	32
101	Electrochemical Fabrication of Superhydrophobic Surfaces on Metal and Semiconductor Substrates. Journal of Adhesion Science and Technology, 2008, 22, 1819-1839.	2.6	15
102	Drying Enhanced Adhesion of Polythiophene Nanotubule Arrays on Smooth Surfaces. ACS Nano, 2008, 2, 2342-2348.	14.6	52
103	Gas Sensors Based on Conducting Polymers. Sensors, 2007, 7, 267-307.	3.8	1,323
104	Electrosynthesis of polypyrrole/sulfonated polyaniline composite films and their applications for ammonia gas sensing. Polymer, 2007, 48, 4015-4020.	3.8	73
105	Aligned three-dimensional microstructures of conducting polymer composites. Polymer, 2007, 48, 5259-5267.	3.8	36
106	Memory devices based on organic electric bistable materials. Science Bulletin, 2007, 52, 2017-2023.	1.7	5
107	Controlled one-step fabrication of highly oriented ZnO nanoneedle/nanorods arrays at near room temperature. Chemical Communications, 2006, , 1655.	4.1	69
108	Synthesis and characterization of poly(1,5-naphthylene vinylene) and its copolymers with poly(2-methoxy-5-(2â€²-ethylhexyloxy)-p-phenylene vinylene). Polymer, 2006, 47, 1533-1537.	3.8	13

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109	Electrosynthesis of small polypyrrole microcontainers. Journal of Electroanalytical Chemistry, 2006, 597, 13-18.	3.8	19
110	Copper Hydroxide Nanoneedle and Nanotube Arrays Fabricated by Anodization of Copper. Journal of Physical Chemistry B, 2005, 109, 22836-22842.	2.6	149