

Bo-Wu Zhang

List of Publications by Year in descending order

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58
papers

3,848
citations

201674

27
h-index

144013

57
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58
all docs

58
docs citations

58
times ranked

6126
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion sieving in graphene oxide membranes via cationic control of interlayer spacing. <i>Nature</i> , 2017, 550, 380-383.	27.8	1,171
2	Ultra-light, compressible and fire-resistant graphene aerogel as a highly efficient and recyclable absorbent for organic liquids. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2934.	10.3	380
3	Laundering Durability of Superhydrophobic Cotton Fabric. <i>Advanced Materials</i> , 2010, 22, 5473-5477.	21.0	276
4	Graphene Oxide-Based Antibacterial Cotton Fabrics. <i>Advanced Healthcare Materials</i> , 2013, 2, 1259-1266.	7.6	207
5	Radiation induced reduction: an effective and clean route to synthesize functionalized graphene. <i>Journal of Materials Chemistry</i> , 2012, 22, 7775.	6.7	163
6	Antifouling microfiltration membranes prepared from acrylic acid or methacrylic acid grafted poly(vinylidene fluoride) powder synthesized via pre-irradiation induced graft polymerization. <i>Journal of Membrane Science</i> , 2010, 350, 252-258.	8.2	126
7	Electrospun nanofibrous adsorbents for uranium extraction from seawater. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2552-2558.	10.3	103
8	Preparation of polymer decorated graphene oxide by γ -ray induced graft polymerization. <i>Nanoscale</i> , 2012, 4, 1742.	5.6	89
9	Microfiltration membranes with pH dependent property prepared from poly(methacrylic acid) grafted polyethersulfone powder. <i>Journal of Membrane Science</i> , 2009, 330, 363-368.	8.2	83
10	Flexible graphene fibers prepared by chemical reduction-induced self-assembly. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6359.	10.3	78
11	Graphene Oxide Transparent Hybrid Film and Its Ultraviolet Shielding Property. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17558-17564.	8.0	76
12	A Study on the Degree of Amidoximation of Polyacrylonitrile Fibers and Its Effect on Their Capacity to Adsorb Uranyl Ions. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3101-3106.	3.7	71
13	Poly (vinylidene fluoride) dielectric composites with both ionic nanoclusters and well dispersed graphene oxide. <i>Composites Science and Technology</i> , 2017, 138, 98-105.	7.8	70
14	Poly (vinyl alcohol) modification of poly(vinylidene fluoride) microfiltration membranes for oil/water emulsion separation via an unconventional radiation method. <i>Journal of Membrane Science</i> , 2021, 619, 118792.	8.2	69
15	Preparation of the antifouling microfiltration membranes from poly(N,N-dimethylacrylamide) grafted poly(vinylidene fluoride) (PVDF) powder. <i>Journal of Materials Chemistry</i> , 2011, 21, 11908.	6.7	61
16	Engineering nano-porous graphene oxide by hydroxyl radicals. <i>Carbon</i> , 2016, 105, 291-296.	10.3	49
17	Antisuperbug Cotton Fabric with Excellent Laundering Durability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19866-19871.	8.0	47
18	γ -ray irradiation effects on graphene oxide in an ethylenediamine aqueous solution. <i>Radiation Physics and Chemistry</i> , 2014, 94, 80-83.	2.8	41

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19	Gamma-ray irradiation-induced reduction and self-assembly of graphene oxide into three-dimensional graphene aerogel. <i>Materials Letters</i> , 2016, 177, 76-79.	2.6	40
20	Electrical Switchability and Dry-Wash Durability of Conductive Textiles. <i>Scientific Reports</i> , 2015, 5, 11255.	3.3	39
21	Designing breathable superhydrophobic cotton fabrics. <i>RSC Advances</i> , 2015, 5, 27752-27758.	3.6	39
22	Polyethylenimine nanofibrous adsorbent for highly effective removal of anionic dyes from aqueous solution. <i>Science China Materials</i> , 2016, 59, 38-50.	6.3	33
23	Microfiltration membranes prepared from acryl amide grafted poly(vinylidene fluoride) powder and their pH sensitive behaviour. <i>Journal of Membrane Science</i> , 2010, 362, 298-305.	8.2	32
24	Synthesis of Few-Layer Reduced Graphene Oxide for Lithium-Ion Battery Electrode Materials. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13348-13355.	3.7	32
25	Covalent immobilization of metal-organic frameworks onto the surface of nylon—a new approach to the functionalization and coloration of textiles. <i>Scientific Reports</i> , 2016, 6, 22796.	3.3	32
26	Novel multifunctional nanofibers based on thermoplastic polyurethane and ionic liquid: towards antibacterial, anti-electrostatic and hydrophilic nonwovens by electrospinning. <i>Nanotechnology</i> , 2015, 26, 105704.	2.6	28
27	Constructing CNTs-based composite membranes for oil/water emulsion separation via radiation-induced “grafting to”-strategy. <i>Carbon</i> , 2021, 178, 678-687.	10.3	28
28	A promising clean way to textile colouration: cotton fabric covalently-bonded with carbon black, cobalt blue, cobalt green, and iron oxide red nanoparticles. <i>Green Chemistry</i> , 2019, 21, 6611-6621.	9.0	26
29	Functionalization of C60 with gold nanoparticles. <i>Carbon</i> , 2010, 48, 3570-3574.	10.3	25
30	Tailored Graphene Oxide Membranes for the Separation of Ions and Molecules. <i>ACS Applied Nano Materials</i> , 2019, 2, 6611-6621.	5.0	23
31	Electrospun nanofibrous polyethylenimine mat: a potential adsorbent for the removal of chromate and arsenate from drinking water. <i>RSC Advances</i> , 2016, 6, 30739-30746.	3.6	21
32	Synergistic nanofibrous adsorbent for uranium extraction from seawater. <i>RSC Advances</i> , 2016, 6, 81995-82005.	3.6	21
33	Preparation of freestanding graphene-based laminar membrane for clean-water intake via forward osmosis process. <i>RSC Advances</i> , 2017, 7, 1326-1335.	3.6	21
34	Built-up superhydrophobic composite membrane with carbon nanotubes for water desalination. <i>RSC Advances</i> , 2014, 4, 16561.	3.6	20
35	Functionalizing cotton fabric via covalently grafting polyaniline for solar-driven interfacial evaporation of brine. <i>Applied Surface Science</i> , 2022, 598, 153665.	6.1	20
36	“Lotus-effect”-tape: imparting superhydrophobicity to solid materials with an electrospun Janus composite mat. <i>RSC Advances</i> , 2016, 6, 17215-17221.	3.6	19

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37	Crosslinking imidazolium-intercalated GO membrane for acid recovery from low concentration solution. Carbon, 2021, 183, 830-839.	10.3	16
38	Fabrication of PES-based membranes with a high and stable desalination performance for membrane distillation. RSC Advances, 2016, 6, 107840-107850.	3.6	15
39	Engineering stable laminated graphene oxide hybrid membranes via imidazolium cations complexation. Journal of Membrane Science, 2020, 613, 118519.	8.2	13
40	Graft polymerization of acrylic acid and methacrylic acid onto poly(vinylidene fluoride) powder in presence of metallic salt and sulfuric acid. Radiation Physics and Chemistry, 2011, 80, 159-163.	2.8	12
41	Photo-enhanced oxidizability of tetrazolium salts and its impact on superoxide assaying. Chemical Communications, 2016, 52, 11595-11598.	4.1	12
42	High-selective removal of ultra-low level mercury ions from aqueous solution using oligothymonucleic acid functionalized polyethylene film. Science China Chemistry, 2012, 55, 2202-2208.	8.2	11
43	Graphene oxide: A potential bodyguard protecting proteins from photosensitive damage. Carbon, 2016, 109, 487-494.	10.3	11
44	Green and efficient synthesis of an adsorbent fiber by preirradiation-induced grafting of PDMAEMA and its Au(III) adsorption and reduction performance. Journal of Applied Polymer Science, 2017, 134, .	2.6	11
45	Engineering robust RGO/PVA composite membrane for acid recovery via electron beam irradiation. Carbon, 2022, 191, 243-254.	10.3	11
46	Building up Graphene-Based Conductive Polymer Composite Thin Films Using Reduced Graphene Oxide Prepared by γ -Ray Irradiation. Scientific World Journal, The, 2013, 2013, 1-7.	2.1	9
47	One-step synthesis of well-dispersed polypyrrole copolymers under gamma-ray irradiation. Polymer Chemistry, 2021, 12, 645-649.	3.9	9
48	Radiation-induced cross-linking: a novel avenue to permanent 3D modification of polymeric membranes. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	9
49	Regulation of hydrophilic performance for chlorinated polyethylene grafting acrylic acid via co-irradiation. Materials Letters, 2022, 311, 131576.	2.6	8
50	Fabrication of stable MWCNT bucky paper for solar-driven interfacial evaporation by coupling γ -ray irradiation with borate crosslinking. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	7
51	Preirradiation-induced emulsion graft polymerization of glycidyl methacrylate onto poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	6
52	Radiation induced graft polymerization of multi-walled carbon nanotubes for superhydrophobic composite membrane preparation. Science China Chemistry, 2016, 59, 303-309.	8.2	6
53	Introducing reactive groups into polymer chains by radiation induced grafting technique. Plastics, Rubber and Composites, 2010, 39, 79-82.	2.0	5
54	The Fabrication of Multifunctional SLIPS Films by Electrospinning. ChemNanoMat, 2017, 3, 869-873.	2.8	5

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55	The synthesis of 3D graphene/Au composites via γ -ray irradiation and their use for catalytic reduction of 4-nitrophenol. Nanotechnology, 2020, 31, 235604.	2.6	5
56	A photoenhanced oxidation of amino acids and the cross-linking of lysozyme mediated by tetrazolium salts. Physical Chemistry Chemical Physics, 2021, 23, 3761-3770.	2.8	5
57	Stability study of Disperse Blue 79 under ionizing radiation. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	3.4	3
58	A promising scalable route to construct GO-based laminate membranes for antifouling ultrafiltration. Materials Advances, 0, , .	5.4	0