

Benqiao He

List of Publications by Year in descending order

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110
papers

4,579
citations

81900

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118850

62
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112
docs citations

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times ranked

4440
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of microstructure for hollow fiber loose nanofiltration separation layer and its compactness-tailoring mechanism. <i>Journal of Hazardous Materials</i> , 2022, 421, 126800.	12.4	16
2	Ultrahigh-efficient separation of Mg ²⁺ /Li ⁺ using an in-situ reconstructed positively charged nanofiltration membrane under an electric field. <i>Journal of Membrane Science</i> , 2022, 641, 119880.	8.2	44
3	Enhanced UV-vis photoinduced hydrogen evolution of metalloporphyrin sensitized PSf/TiO ₂ MMMs by varying center metal ion complexed in porphyrin. <i>Fuel</i> , 2022, 312, 122810.	6.4	7
4	Preparation of Small-Pore Ultrafiltration Membranes with High Surface Porosity by In Situ CO ₂ Nanobubble-Assisted NIPS. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8633-8643.	8.0	17
5	High-Efficiency Separation of Mg ²⁺ /Sr ²⁺ through a NF Membrane under Electric Field. <i>Membranes</i> , 2022, 12, 57.	3.0	2
6	Efficiently rejecting and concentrating Li ⁺ by nanofiltration membrane under a reversed electric field. <i>Desalination</i> , 2022, 535, 115825.	8.2	10
7	Double Polyamide Layers with CaCO ₃ Nanoparticles as Scaffolds for High Performance Nanofiltration Membranes. <i>ACS Applied Nano Materials</i> , 2022, 5, 8279-8287.	5.0	0
8	Compactness-tailored hollow fiber loose nanofiltration separation layers based on chemical crosslinking and metal ion coordination for selective dye separation. <i>Journal of Membrane Science</i> , 2021, 620, 118948.	8.2	59
9	Pregelation of sulfonated polysulfone and water for tailoring the morphology and properties of polyethersulfone ultrafiltration membranes for dye/salt selective separation. <i>Journal of Membrane Science</i> , 2021, 618, 118746.	8.2	37
10	Preparation of PVDF membrane based on in-situ Template-TIPS technology and the investigation on membrane formation mechanism, microstructure regulation and permeability. <i>Journal of Membrane Science</i> , 2021, 620, 118839.	8.2	3
11	Polyaniline/polysulfone ultrafiltration membranes with improved permeability and anti-fouling behavior. <i>Journal of Water Process Engineering</i> , 2021, 40, 101903.	5.6	18
12	Multi-ionic electrolytes and E.coli removal from wastewater using chitosan-based in-situ mediated thin film composite nanofiltration membrane. <i>Journal of Environmental Management</i> , 2021, 294, 112996.	7.8	9
13	pH-responsive nanofiltration membrane containing chitosan for dye separation. <i>Journal of Membrane Science</i> , 2021, 635, 119445.	8.2	47
14	Significantly improved gas separation properties of sulfonated PIM-1 by direct sulfonation using SO ₃ solution. <i>Journal of Membrane Science</i> , 2021, 635, 119440.	8.2	26
15	Underwater superoleophobic APTES-SiO ₂ /PVA organohydrogel for low-temperature tolerant, self-healing, recoverable oil/water separation mesh. <i>Chemical Engineering Journal</i> , 2020, 382, 122925.	12.7	72
16	Environmentally-friendly halloysite nanotubes@chitosan/polyvinyl alcohol/non-woven fabric hybrid membranes with a uniform hierarchical porous structure for air filtration. <i>Journal of Membrane Science</i> , 2020, 594, 117445.	8.2	61
17	Multifunctional PVDF/CNT/GO mixed matrix membranes for ultrafiltration and fouling detection. <i>Journal of Hazardous Materials</i> , 2020, 384, 120978.	12.4	76
18	Improved water permeability and structural stability in a polysulfone-grafted graphene oxide composite membrane used for dye separation. <i>Journal of Membrane Science</i> , 2020, 595, 117547.	8.2	48

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19	N-isopropylacrylamide and spiropyran copolymer-grafted fluorescent carbon nanoparticles with dual responses to light and temperature stimuli. <i>Polymer Journal</i> , 2020, 52, 1289-1298.	2.7	2
20	Biodiesel Production through Heterogeneous Catalysis Using a Novel Poly(phenylene sulfide) Catalytic Membrane. <i>Energy & Fuels</i> , 2020, 34, 7422-7429.	5.1	20
21	Preparation of Crown Ether Functionalized Polysulfone Membrane by In Situ Surface Grafting for Selective Adsorption and Separation of Li^+ . <i>ChemistrySelect</i> , 2020, 5, 3321-3329.	1.5	14
22	Monolayer porphyrin assembled SPSf/PES membrane reactor for degradation of dyes under visible light irradiation coupling with continuous filtration. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 109, 62-70.	5.3	15
23	An ultrahighly permeable-selective nanofiltration membrane mediated by an <i>in situ</i> formed interlayer. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5275-5283.	10.3	116
24	Fabrication of hyperbranched polyether demulsifier modified PVDF membrane for demulsification and separation of oil-in-water emulsion. <i>Journal of Membrane Science</i> , 2020, 602, 117974.	8.2	70
25	Adsorption of silver ion from the aqueous solution using a polyvinylidene fluoride functional membrane bearing thiourea groups. <i>Journal of Water Process Engineering</i> , 2020, 34, 101184.	5.6	9
26	Enhanced anodic oxidation and energy saving for dye removal by integrating O ₂ -reducing biocathode into electrocatalytic reactor. <i>Chemosphere</i> , 2020, 252, 126460.	8.2	13
27	Esterification of glycerol with acetic acid using a sulfonated polyphenylene sulfide non-woven fabric as a catalyst. <i>International Journal of Chemical Reactor Engineering</i> , 2020, 18, .	1.1	2
28	Understanding the multiple functions of styrene-co-maleic anhydride in fabricating polyvinylidene fluoride hollow fiber membrane via coupled phase inversion process and its effect on surface infiltration behavior and membrane permeability. <i>Journal of Membrane Science</i> , 2019, 590, 117269.	8.2	36
29	Physically Cross-Linked Double-Network Hydrogel for High-Performance Oil/Water Separation Mesh. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21649-21658.	3.7	21
30	Ultra-low graphene oxide loading for water permeability, antifouling and antibacterial improvement of polyethersulfone/sulfonated polysulfone ultrafiltration membranes. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 319-331.	9.4	84
31	Polysulfone-graft-4-aminobenzo-15-crown-5-ether based tandem membrane chromatography for efficient adsorptive separation of lithium isotopes. <i>Journal of Chromatography A</i> , 2019, 1602, 206-216.	3.7	22
32	Integrating biocathode into electrocatalytic reactor to reduce applied voltage to generate hydroxyl radicals for advanced oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2487-2496.	3.2	5
33	Formoxylbenzo-15-crown-5 ether functionalized PVA/NWF composite membrane for enhanced $^7\text{Li}^+$ enrichment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 496-502.	5.3	16
34	Adsorption for copper(II) ion with chitosan-SP/PET composite adsorbent enhanced by electric field. <i>Adsorption Science and Technology</i> , 2019, 37, 274-287.	3.2	10
35	A three-stage fixed-bed electrochemical reactor for biologically treated landfill leachate treatment. <i>Chemical Engineering Journal</i> , 2019, 376, 121026.	12.7	31
36	Bifunctional semi-closed YF ₃ -doped 1D carbon nanofibers with 3D porous network structure including fluorinating interphases and polysulfide confinement for lithium-sulfur batteries. <i>Nanoscale</i> , 2019, 11, 21324-21339.	5.6	21

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37	Ultrahigh adsorption capacities for anionic and cationic dyes from wastewater using only chitosan. <i>Journal of Cleaner Production</i> , 2019, 214, 89-94.	9.3	108
38	A rubber-like, underwater superoleophobic hydrogel for efficient oil/water separation. <i>Chemical Engineering Journal</i> , 2019, 361, 364-372.	12.7	63
39	Chitosan-graft-benzo-15-crown-5-ether/PVA Blend Membrane with Sponge-Like Pores for Lithium Isotope Adsorptive Separation. <i>ACS Omega</i> , 2018, 3, 554-561.	3.5	24
40	A novel route for the removal of Cu(II) and Ni(II) ions via homogeneous adsorption by chitosan solution. <i>Journal of Cleaner Production</i> , 2018, 192, 801-808.	9.3	99
41	Factors affecting the separation performance of graphene oxide membranes: mechanical support, properties of graphene oxide, and exotic species. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1388-1393.	3.2	5
42	A novel green biosorbent from chitosan modified by sodium phytate for copper (II) ion removal. <i>Polymers for Advanced Technologies</i> , 2018, 29, 285-293.	3.2	18
43	In situ one-pot formation of crown ether functionalized polysulfone membranes for highly efficient lithium isotope adsorptive separation. <i>European Polymer Journal</i> , 2018, 109, 288-296.	5.4	25
44	Preparation of PSf-g-BN15C5/NWF composite membrane with sponge-like pore structure for lithium isotopes adsorptive separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 507-516.	5.3	15
45	Antibacterial and environmentally friendly chitosan/polyvinyl alcohol blend membranes for air filtration. <i>Carbohydrate Polymers</i> , 2018, 198, 241-248.	10.2	115
46	Preparation of polysulfone-graft-monoazabenzobenzocrown-5 ether porous membrane for lithium isotope separation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 317, 111-119.	1.5	15
47	Nano-V ₂ O ₅ /Ti porous membrane electrode with enhanced electrochemical activity for the high-efficiency oxidation of cyclohexane. <i>Green Chemistry</i> , 2018, 20, 3944-3953.	9.0	48
48	Corrosive environments tolerant, ductile and self-healing hydrogel for highly efficient oil/water separation. <i>Chemical Engineering Journal</i> , 2018, 354, 1185-1196.	12.7	44
49	The Effect of Diluent Mixture with Upper Critical Solution Temperature on Membrane Formation Process, Microstructure, and Performance of PVDF Hollow Fiber Membrane by TIPS Process. <i>Polymers</i> , 2018, 10, 719.	4.5	10
50	Effect of Solvent on Conversion and Selectivity during the Selective Oxidation of Cyclohexane by Nano-V ₂ O ₅ /Ti Membrane Electrode. <i>Journal of the Electrochemical Society</i> , 2018, 165, H460-H465.	2.9	6
51	Polyvinyl alcohol-graft-benzo-15-crown-5 ether for lithium isotopes separation by liquid-solid extraction. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 2061-2068.	1.5	23
52	Fabrication of PVDF-based blend membrane with a thin hydrophilic deposition layer and a network structure supporting layer via the thermally induced phase separation followed by non-solvent induced phase separation process. <i>Applied Surface Science</i> , 2017, 419, 429-438.	6.1	52
53	Continuous transesterification to produce biodiesel under HTCC/Na ₂ SiO ₃ /NWF composite catalytic membrane in flow-through membrane reactor. <i>Fuel</i> , 2017, 197, 51-57.	6.4	30
54	Spiropyran-modified silicon quantum dots with reversibly switchable photoluminescence. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	11

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55	Engineering Interface with One-Dimensional Co ₃ O ₄ Nanostructure in Catalytic Membrane Electrode: Toward an Advanced Electrocatalyst for Alcohol Oxidation. ACS Nano, 2017, 11, 12365-12377.	14.6	103
56	Preparation of PES/SPSf blend ultrafiltration membranes with high performance via H ₂ O-induced gelation phase separation. Journal of Membrane Science, 2017, 540, 136-145.	8.2	95
57	Synthesis of Butyl Acetate in a Membrane Reactor in a Flow-Through Mode. International Journal of Chemical Reactor Engineering, 2016, 14, 579-585.	1.1	6
58	The effect of sulfonated polysulfone on the compatibility and structure of polyethersulfone-based blend membranes. Journal of Membrane Science, 2016, 513, 1-11.	8.2	128
59	Synthesis of chlorinated polypropylene grafted poly(methyl methacrylate) using chlorinated polypropylene as macro-initiator via atom transfer radical polymerization and its application in lithium ion battery. Materials Letters, 2016, 176, 64-67.	2.6	6
60	A facile one-step synthesis of fluorescent silicon quantum dots and their application for detecting Cu ²⁺ . RSC Advances, 2016, 6, 14465-14467.	3.6	24
61	Preparation and catalytic performance of N-[(2-Hydroxy-3-trimethylammonium) propyl] chitosan chloride /Na ₂ SiO ₃ polymer-based catalyst for biodiesel production. Renewable Energy, 2016, 88, 51-57.	8.9	12
62	A filtration model for prediction of local flux distribution and optimization of submerged hollow fiber membrane module. AIChE Journal, 2015, 61, 4377-4386.	3.6	16
63	Controllable oxidation of cyclohexane to cyclohexanol and cyclohexanone by a nano-MnOx/Ti electrocatalytic membrane reactor. Journal of Catalysis, 2015, 329, 187-194.	6.2	58
64	Preparation and Characterization of Polysulfone-graft-4-aminobenzo-15-crown-5-ether for Lithium Isotope Separation. Industrial & Engineering Chemistry Research, 2015, 54, 3473-3479.	3.7	48
65	Biodiesel production from soybean oil by guanidinylated chitosan. Fuel, 2015, 159, 33-39.	6.4	24
66	The carbon nanoparticles grafted with copolymers of styrene and spiropyran with reversibly photoswitchable fluorescence. Carbon, 2015, 91, 30-37.	10.3	28
67	Preparation and characterization of positively charged polyamide composite nanofiltration hollow fiber membrane for lithium and magnesium separation. Desalination, 2015, 369, 26-36.	8.2	192
68	Continuous biodiesel production from acidic oil using a combination of cation- and anion-exchange resins. Fuel Processing Technology, 2015, 130, 1-6.	7.2	26
69	An innovative auto-catalytic esterification for the production of phytosterol esters: experiment and kinetics. RSC Advances, 2014, 4, 64319-64327.	3.6	21
70	An electrocatalytic reactor for the high selectivity production of sodium 2,2,3,3-tetrafluoropropionate from 2,2,3,3-tetrafluoro-1-propanol. Electrochimica Acta, 2014, 123, 33-41.	5.2	24
71	Surface grafting of fluorescent carbon nanoparticles with polystyrene via atom transfer radical polymerization. Carbon, 2014, 73, 155-162.	10.3	16
72	Synthesis of fluorescent carbon nanoparticles grafted with polystyrene and their fluorescent fibers processed by electrospinning. RSC Advances, 2014, 4, 57683-57690.	3.6	13

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73	Esterification of Acetic Acid and Ethanol in a Flow-Through Membrane Reactor Coupled with Pervaporation. <i>Chemical Engineering and Technology</i> , 2014, 37, 478-482.	1.5	16
74	Experimental investigation of local flux distribution and fouling behavior in double-end and dead-end submerged hollow fiber membrane modules. <i>Journal of Membrane Science</i> , 2014, 453, 18-26.	8.2	36
75	Controllable oxidation of glucose to gluconic acid and glucaric acid using an electrocatalytic reactor. <i>Electrochimica Acta</i> , 2014, 130, 170-178.	5.2	96
76	Direct monitoring of sub-critical flux fouling in a horizontal double-end submerged hollow fiber membrane module using ultrasonic time domain reflectometry. <i>Journal of Membrane Science</i> , 2014, 451, 226-233.	8.2	26
77	Reversible fluorescence modulation of spiropyran-functionalized carbon nanoparticles. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3716.	5.5	86
78	Electrocatalytic oxidation of n-propanol to produce propionic acid using an electrocatalytic membrane reactor. <i>Chemical Communications</i> , 2013, 49, 4501.	4.1	35
79	The surface modification of coal-based carbon membranes by different acids. <i>Desalination and Water Treatment</i> , 2013, 51, 5855-5862.	1.0	4
80	Ultrasonic visualization of sub-critical flux fouling in the double-end submerged hollow fiber membrane module. <i>Journal of Membrane Science</i> , 2013, 444, 394-401.	8.2	33
81	Continuous esterification to produce biodiesel by SPES/PES/NWF composite catalytic membrane in flow-through membrane reactor: Experimental and kinetic studies. <i>Bioresource Technology</i> , 2013, 129, 100-107.	9.6	52
82	Biodiesel production from waste chicken fat with low free fatty acids by an integrated catalytic process of composite membrane and sodium methoxide. <i>Bioresource Technology</i> , 2013, 139, 316-322.	9.6	79
83	Deactivation and <i>in Situ</i> Regeneration of Anion Exchange Resin in the Continuous Transesterification for Biodiesel Production. <i>Energy & Fuels</i> , 2012, 26, 3897-3902.	5.1	14
84	Novel Functionalized Nano-TiO ₂ Loading Electrocatalytic Membrane for Oily Wastewater Treatment. <i>Environmental Science & Technology</i> , 2012, 46, 6815-6821.	10.0	194
85	Continuous biodiesel production in a fixed bed reactor packed with anion-exchange resin as heterogeneous catalyst. <i>Bioresource Technology</i> , 2012, 113, 19-22.	9.6	84
86	Comprehensive kinetic studies of acidic oil continuous esterification by cation-exchange resin in fixed bed reactors. <i>Bioresource Technology</i> , 2012, 113, 65-72.	9.6	36
87	Sulfur removal from fuel using zeolites/polyimide mixed matrix membrane adsorbents. <i>Journal of Hazardous Materials</i> , 2012, 203-204, 204-212.	12.4	40
88	Biodiesel Production from Acidified Oils via Supercritical Methanol. <i>Energies</i> , 2011, 4, 2212-2223.	3.1	20
89	Gold nanocluster-based light-controlled fluorescence molecular switch. <i>Journal of Materials Chemistry</i> , 2011, 21, 5867.	6.7	25
90	Esterification of acidified oil with methanol by SPES/PES catalytic membrane. <i>Bioresource Technology</i> , 2011, 102, 5389-5393.	9.6	49

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91	An Electrocatalytic Membrane Reactor with Self-Cleaning Function for Industrial Wastewater Treatment. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2148-2150.	13.8	132
92	A continuous process for biodiesel production in a fixed bed reactor packed with cation-exchange resin as heterogeneous catalyst. <i>Bioresource Technology</i> , 2011, 102, 3607-3609.	9.6	110
93	Formation and structural evolution of biphenyl polyamide thin film on hollow fiber membrane during interfacial polymerization. <i>Journal of Membrane Science</i> , 2011, 373, 98-106.	8.2	58
94	Cation Ion-Exchange Resin/Polyethersulfone Hybrid Catalytic Membrane for Biodiesel Production. <i>Journal of Biobased Materials and Bioenergy</i> , 2011, 5, 85-91.	0.3	25
95	Preparation and characterization of PSSA/PVA catalytic membrane for biodiesel production. <i>Fuel</i> , 2010, 89, 2299-2304.	6.4	91
96	Biodiesel production using cation-exchange resin as heterogeneous catalyst. <i>Bioresource Technology</i> , 2010, 101, 1518-1521.	9.6	161
97	Preparation and characterization of the organic-inorganic hybrid membrane for biodiesel production. <i>Bioresource Technology</i> , 2010, 101, 1501-1505.	9.6	71
98	Non-invasive monitoring of fouling in hollow fiber membrane via UTDR. <i>Journal of Membrane Science</i> , 2009, 326, 103-110.	8.2	50
99	Induced Circular Dichroism of Anionic Porphyrin TPPS Aggregates in DNA Solutions. <i>Polymer Journal</i> , 2009, 41, 739-743.	2.7	4
100	Used lubricating oil recycling using a membrane filtration: Analysis of efficiency, structural and composing. <i>Desalination and Water Treatment</i> , 2009, 11, 73-80.	1.0	22
101	Random lasing in a dye doped cholesteric liquid crystal polymer solution. <i>Optical Materials</i> , 2008, 31, 375-379.	3.6	30
102	Honeycomb-Structured Porous Films Controlled by the Temperature of Water Bath. <i>Polymer Journal</i> , 2008, 40, 1180-1184.	2.7	16
103	The morphology and photoelectronic properties of poly(9,9-dioctylfluorene)/ethylcyanoethyl cellulose blends. <i>Journal of Applied Polymer Science</i> , 2007, 106, 1390-1397.	2.6	4
104	The Orientation and Photophysical Properties of Conjugated Polymers in Oriented Films. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 384-388.	2.2	5
105	Studies of Green Emission in Polyfluorenes Using a Model Polymer. <i>Polymer Journal</i> , 2007, 39, 1345-1350.	2.7	9
106	Synthesis of amphiphilic ethyl cellulose grafting poly(acrylic acid) copolymers and their self-assembly morphologies in water. <i>Polymer</i> , 2006, 47, 7927-7934.	3.8	82
107	Mechanochemical copolymerization of poly(vinyl chloride) with methyl methacrylate in an open mill machine. <i>Journal of Vinyl and Additive Technology</i> , 2006, 12, 42-48.	3.4	7
108	Highly Polarized Blue Luminescence from the Oriented Poly(9,9-dioctylfluorene)/Polyethylene Blending Films. <i>Macromolecules</i> , 2005, 38, 6762-6766.	4.8	21

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109	Preparation and properties of water-swellable elastomer. Journal of Applied Polymer Science, 2004, 93, 1719-1723.	2.6	24
110	Study on the Flame-retardance and Thermal Stability of the Acid Anhydride-cured Epoxy Resin Flame-retarded by Triphenyl Phosphate and Hydrated Alumina. Journal of Fire Sciences, 2001, 19, 369-377.	2.0	22