

Jianqiang Wang

List of Publications by Year in descending order

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62
papers

3,482
citations

117625

34
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138484

58
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62
all docs

62
docs citations

62
times ranked

3870
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Oxide as an Effective Barrier on a Porous Nanofibrous Membrane for Water Treatment. ACS Applied Materials & Interfaces, 2016, 8, 6211-6218.	8.0	311
2	Polyacrylonitrile/polypyrrole core/shell nanofiber mat for the removal of hexavalent chromium from aqueous solution. Journal of Hazardous Materials, 2013, 244-245, 121-129.	12.4	249
3	<i>In Situ</i> Reduction of Silver by Polydopamine: A Novel Antimicrobial Modification of a Thin-Film Composite Polyamide Membrane. Environmental Science & Technology, 2016, 50, 9543-9550.	10.0	182
4	Robust superhydrophobic-superoleophilic polytetrafluoroethylene nanofibrous membrane for oil/water separation. Journal of Membrane Science, 2017, 540, 354-361.	8.2	178
5	Facile fabrication of nanofiber- and micro/nanosphere-coordinated PVDF membrane with ultrahigh permeability of viscous water-in-oil emulsions. Journal of Materials Chemistry A, 2018, 6, 7014-7020.	10.3	132
6	Catalytic PVDF membrane for continuous reduction and separation of p-nitrophenol and methylene blue in emulsified oil solution. Chemical Engineering Journal, 2018, 334, 579-586.	12.7	127
7	Does Hydrophilic Polydopamine Coating Enhance Membrane Rejection of Hydrophobic Endocrine-Disrupting Compounds?. Environmental Science and Technology Letters, 2016, 3, 332-338.	8.7	117
8	Polyacrylonitrile/polyaniline core/shell nanofiber mat for removal of hexavalent chromium from aqueous solution: mechanism and applications. RSC Advances, 2013, 3, 8978.	3.6	114
9	A One-Step Rapid Assembly of Thin Film Coating Using Green Coordination Complexes for Enhanced Removal of Trace Organic Contaminants by Membranes. Environmental Science & Technology, 2017, 51, 12638-12643.	10.0	110
10	Polydopamine coating on a thin film composite forward osmosis membrane for enhanced mass transport and antifouling performance. Journal of Membrane Science, 2018, 551, 234-242.	8.2	110
11	Membranes with selective laminar nanochannels of modified reduced graphene oxide for water purification. Carbon, 2016, 103, 94-100.	10.3	98
12	Polyethylenimine coated bacterial cellulose nanofiber membrane and application as adsorbent and catalyst. Journal of Colloid and Interface Science, 2015, 440, 32-38.	9.4	86
13	Polymeric catalytically active membranes for reaction-separation coupling: A review. Journal of Membrane Science, 2019, 583, 118-138.	8.2	79
14	Superhydrophilic carbonaceous-silver nanofibrous membrane for complex oil/water separation and removal of heavy metal ions, organic dyes and bacteria. Journal of Membrane Science, 2020, 614, 118491.	8.2	79
15	Hierarchically structured polyacrylonitrile nanofiber mat as highly efficient lead adsorbent for water treatment. Chemical Engineering Journal, 2015, 262, 775-784.	12.7	78
16	A highly selective surface coating for enhanced membrane rejection of endocrine disrupting compounds: Mechanistic insights and implications. Water Research, 2017, 121, 197-203.	11.3	77
17	Solvent-thermal induced roughening: A novel and versatile method to prepare superhydrophobic membranes. Journal of Membrane Science, 2018, 564, 465-472.	8.2	68
18	Electrosprayed polyamide nanofiltration membrane with intercalated structure for controllable structure manipulation and enhanced separation performance. Journal of Membrane Science, 2020, 602, 117971.	8.2	68

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19	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. Journal of Colloid and Interface Science, 2019, 553, 99-107.	9.4	66
20	Janus Polyvinylidene Fluoride Membrane with Extremely Opposite Wetting Surfaces via One Single-Step Unidirectional Segregation Strategy. ACS Applied Materials & Interfaces, 2018, 10, 24947-24954.	8.0	64
21	Sustaining fouling resistant membranes: Membrane fabrication, characterization and mechanism understanding of demulsification and fouling-resistance. Journal of Membrane Science, 2019, 581, 105-113.	8.2	57
22	Mechanism study of selective heavy metal ion removal with polypyrrole-functionalized polyacrylonitrile nanofiber mats. Applied Surface Science, 2014, 316, 245-250.	6.1	54
23	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. Journal of Colloid and Interface Science, 2019, 535, 239-244.	9.4	48
24	In situ generated micro-bubbles enhanced membrane antifouling for separation of oil-in-water emulsion. Journal of Membrane Science, 2021, 621, 119005.	8.2	48
25	Janus Membrane with Unparalleled Forward Osmosis Performance. Environmental Science and Technology Letters, 2019, 6, 79-85.	8.7	47
26	Exceptional interfacial solar evaporation via heteromorphic PTFE/CNT hollow fiber arrays. Journal of Materials Chemistry A, 2021, 9, 390-399.	10.3	45
27	Superhydrophilic and mechanical robust PVDF nanofibrous membrane through facile interfacial Span 80 welding for excellent oil/water separation. Applied Surface Science, 2019, 485, 179-187.	6.1	44
28	One-pot preparation of polyimide/Fe ₃ O ₄ magnetic nanofibers with solvent resistant properties. Composites Science and Technology, 2016, 133, 97-103.	7.8	41
29	Gravity-driven catalytic nanofibrous membranes prepared using a green template. Journal of Membrane Science, 2017, 525, 298-303.	8.2	40
30	Electrospun Self-Supporting Nanocomposite Films of Na ₉ [EuW ₁₀ O ₃₆]-32H ₂ O/PAN as pH-Modulated Luminescent Switch. Industrial & Engineering Chemistry Research, 2013, 52, 2598-2603.	3.7	39
31	Preparation of Fe ₂ O ₃ /polyacrylonitrile nanofiber mat as an effective lead adsorbent. Environmental Science: Nano, 2016, 3, 894-901.	4.3	39
32	A novel gravity-driven nanofibrous membrane for point-of-use water disinfection: polydopamine-induced in situ silver incorporation. Scientific Reports, 2017, 7, 2334.	3.3	39
33	Novel polyethyleneimine/TMC-based nanofiltration membrane prepared on a polydopamine coated substrate. Frontiers of Chemical Science and Engineering, 2018, 12, 273-282.	4.4	39
34	Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for "Nonfouling" Emulsion Separation via Coalescence Demulsification. ACS Applied Materials & Interfaces, 2021, 13, 4731-4739.	8.0	36
35	Novel Janus membrane with unprecedented osmosis transport performance. Journal of Materials Chemistry A, 2019, 7, 632-638.	10.3	34
36	Functionalization of polyacrylonitrile nanofiber using ATRP method for boric acid removal from aqueous solution. Journal of Water Process Engineering, 2014, 3, 98-104.	5.6	30

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37	Poly(vinyl alcohol)/polydopamine hybrid nanofiltration membrane fabricated through aqueous electrospraying with excellent antifouling and chlorine resistance. <i>Journal of Membrane Science</i> , 2021, 632, 119385.	8.2	30
38	ZIF-67 derived nanofibrous catalytic membranes for ultrafast removal of antibiotics under flow-through filtration via non-radical dominated pathway. <i>Journal of Membrane Science</i> , 2021, 639, 119782.	8.2	28
39	Carbonaceous microsphere/nanofiber composite superhydrophilic membrane with enhanced anti-adhesion property towards oil and anionic surfactant: Membrane fabrication and applications. <i>Separation and Purification Technology</i> , 2020, 235, 116189.	7.9	26
40	Electrosprayed polydopamine membrane: Surface morphology, chemical stability and separation performance study. <i>Separation and Purification Technology</i> , 2020, 244, 116857.	7.9	26
41	Thiol-functionalized electrospun polyacrylonitrile nanofibrous membrane for highly efficient removal of mercury ions. <i>Chemical Engineering Research and Design</i> , 2016, 113, 1-8.	5.6	25
42	“Living” electrospray – A controllable polydopamine nano-coating strategy with zero liquid discharge for separation. <i>Journal of Membrane Science</i> , 2019, 586, 170-176.	8.2	25
43	Polydopamine enabled palladium loaded nanofibrous membrane and its catalytic performance for trichloroethene dechlorination. <i>Applied Catalysis A: General</i> , 2018, 559, 122-126.	4.3	23
44	Poly(N,N-dimethylaminoethyl methacrylate) modification of a regenerated cellulose membrane using ATRP method for copper(ii) ion removal. <i>RSC Advances</i> , 2013, 3, 20625.	3.6	22
45	Gravity-driven catalytic nanofibrous membrane with microsphere and nanofiber coordinated structure for ultrafast continuous reduction of 4-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 108-115.	9.4	22
46	Interfacial polymerized polyamide nanofiltration membrane by demulsification of hexane-in-water droplets through hydrophobic PTFE membrane: Membrane performance and formation mechanism. <i>Separation and Purification Technology</i> , 2021, 275, 119227.	7.9	20
47	Electrosprayed polyamide nanofiltration membrane with uniform and tunable pores for sub-nm precision molecule separation. <i>Separation and Purification Technology</i> , 2022, 282, 120131.	7.9	20
48	Functionalization of polyacrylonitrile nanofiber mat via surface-initiated atom transfer radical polymerization for copper ions removal from aqueous solution. <i>Desalination and Water Treatment</i> , 2015, 54, 2856-2867.	1.0	18
49	Fabrication and Formation Mechanism of Ag Nanoplate-Decorated Nanofiber Mats and Their Application in SERS. <i>Chemistry - an Asian Journal</i> , 2016, 11, 86-92.	3.3	17
50	Confined Channels Induced Coalescence Demulsification and Slippery Interfaces Constructed Fouling Resist-Release for Long-Lasting Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30224-30234.	8.0	17
51	Removal of perfluorooctane sulfonate by a gravity-driven membrane: Filtration performance and regeneration behavior. <i>Separation and Purification Technology</i> , 2017, 174, 136-144.	7.9	16
52	Self-assembly of various silver nanocrystals on PmPD/PAN nanofibers as a high-performance 3D SERS substrate. <i>Analyst</i> , 2015, 140, 5707-5715.	3.5	13
53	The influence of polyamic acid molecular weight on the membrane structure and performance of polyimide solvent-resistant nanofiltration. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 777-785.	3.2	12
54	Microstructure, Texture, and Mechanical Properties of Continuously Extruded and Rolled AZ31 Magnesium Alloy Sheets. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6692-6703.	2.5	10

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55	Reversible filtration redox of methylene blue in dimethylsulfoxide by manganese oxide loaded carbonaceous nanofibrous membrane through Fenton-like oxidation. Journal of Colloid and Interface Science, 2021, 588, 436-445.	9.4	10
56	In-situ formation of epoxy derived polyethylene glycol crosslinking network on polyamide nanofiltration membrane with enhanced antifouling performance. Journal of Membrane Science, 2022, 658, 120713.	8.2	7
57	Bone/muscle-inspired polymer porous matrix toughened carbon nanofibrous catalytic membranes for robust emerging contaminants removal. Chemical Engineering Journal, 2022, 442, 136069.	12.7	6
58	Catalytic conversion controlled interfacial polymerization for polyamide membranes. Reactive and Functional Polymers, 2018, 131, 84-88.	4.1	4
59	High-Temperature Magic-Angle Spin Nuclear Magnetic Resonance Reveals Sodium Ion-Doped Crystal-Phase Formation in FLiNaK Eutectic Salt Solidification. Journal of Physical Chemistry C, 2021, 125, 4704-4709.	3.1	4
60	Fabrication of Lanthanum Strontium Manganite Ceramics via Agar Gel Casting and Solid State Sintering. Materials, 2019, 12, 848.	2.9	3
61	Air nanobubbles (ANBs) incorporated sandwich-structured carbon nanotube membranes (CNM) for highly permeable and stable forward osmosis. , 2022, 2, 100026.		3
62	Second interfacial polymerization decorating defects of TFC NF membrane formed by 1D nanochannels for improving separation performance. Journal of Environmental Chemical Engineering, 2022, 10, 106896.	6.7	2