Xiaobin Yang

List of Publications by Year
in descending order

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34	2,865	159585 30	377865 34
papers	citations	h-index	g-index

35	35	35	2558
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monovalent Cation Exchange Membranes with Janus Charged Structure for Ion Separation. Engineering, 2023, 25, 204-213.	6.7	17
2	Bio-inspired mineral-hydrogel hybrid coating on hydrophobic PVDF membrane boosting oil/water emulsion separation. Separation and Purification Technology, 2022, 285, 120383.	7.9	98
3	Biomimetic nanoparticle-engineered superwettable membranes for efficient oil/water separation. Journal of Membrane Science, 2021, 618, 118525.	8.2	178
4	Constructing Scalable Superhydrophobic Membranes for Ultrafast Waterâ€“Oil Separation. ACS Nano, 2021, 15, 3500-3508.	14.6	175
5	Oxygen barrier property of synthesized polyacrylate coatings containing interâ€chain crossâ€linking architecture on <scp>PET</scp> film. Journal of Applied Polymer Science, 2021, 138, 50836.	2.6	3
6	Poly(sodium-p-styrenesulfonate)-grafted UiO-66 composite membranes boosting highly efficient molecular separation for environmental remediation. Advanced Composites and Hybrid Materials, 2021, 4, 562-573.	21.1	25
7	Green activation of sustainable resources to synthesize nitrogen-doped oxygen-riched porous carbon nanosheets towards high-performance supercapacitor. Chemical Engineering Journal, 2021, 412, 128673.	12.7	170
8	Porous Janus materials with unique asymmetries and functionality. Materials Today, 2021, 51, 626-647.	14.2	113
9	Water treatment based on atomically engineered materials: Atomic layer deposition and beyond. Matter, 2021, 4, 3515-3548.	10.0	66
10	Polyacrylate Decorating Poly(ethylene terephthalate) (PET) Film Surface for Boosting Oxygen Barrier Property. Coatings, 2021, 11, 1451.	2.6	2
11	Universal unilateral electro-spinning/spraying strategy to construct water-unidirectional Janus membranes with well-tuned hierarchical micro/nanostructures. Chemical Communications, 2020, 56, 478-481.	4.1	68
12	Mussel-/diatom-inspired silicified membrane for high-efficiency water remediation. Journal of Membrane Science, 2020, 597, 117753.	8.2	48
13	Mussel-inspired structure evolution customizing membrane interface hydrophilization. Journal of Membrane Science, 2020, 612, 118471.	8.2	40
14	Rational design of poly(ethylene oxide) based membranes for sustainable CO₂capture. Journal of Materials Chemistry A, 2020, 8, 24233-24252.	10.3	94
15	Selfâ€Cleaning Membranes: Visibleâ€Lightâ€Activated Photocatalytic Films toward Selfâ€Cleaning Membranes (Adv. Funct. Mater. 34/2020). Advanced Functional Materials, 2020, 30, 2070230.	14.9	36
16	Multi-hydrophilic functional network enables porous membranes excellent anti-fouling performance for highly efficient water remediation. Journal of Membrane Science, 2020, 608, 118191.	8.2	39
17	A de novo sacrificial-MOF strategy to construct enhanced-flux nanofiltration membranes for efficient dye removal. Chemical Engineering Science, 2020, 225, 115845.	3.8	100
18	Visibleâ€Lightâ€Activated Photocatalytic Films toward Selfâ€Cleaning Membranes. Advanced Functional Materials, 2020, 30, 2002847.	14.9	74

#	Article	IF	Citations
19	Polyphenolâ€Sensitized Atomic Layer Deposition for Membrane Interface Hydrophilization. Advanced Functional Materials, 2020, 30, 1910062.	14.9	70
20	Construction of superhydrophilic hierarchical polyacrylonitrile nanofiber membranes by in situ asymmetry engineering for unprecedently ultrafast oilâ€“water emulsion separation. Journal of Materials Chemistry A, 2020, 8, 16933-16942.	10.3	73
21	Bioadhesion-inspired surface engineering constructing robust, hydrophilic membranes for highly-efficient wastewater remediation. Journal of Membrane Science, 2019, 591, 117353.	8.2	76
22	Biomimetic hydrophilization engineering on membrane surface for highly-efficient water purification. Journal of Membrane Science, 2019, 589, 117223.	8.2	90
23	Boosting visible light photocatalytic activity via impregnation-induced RhB-sensitized MIL-125(Ti). Chemical Engineering Research and Design, 2019, 143, 90-99.	5.6	49
24	Boosting the charge storage of layered double hydroxides derived from carbon nanotube-tailored metal organic frameworks. Electrochimica Acta, 2019, 301, 117-125.	5.2	57
25	Interface-confined surface engineering constructing water-unidirectional Janus membrane. Journal of Membrane Science, 2019, 576, 9-16.	8.2	91
26	Nanoporous framework â€œreservoirâ€•maximizing low-molecular-weight enhancer impregnation into CO2-philic membranes for highly-efficient CO2 capture. Journal of Membrane Science, 2019, 570-571, 278-285.	8.2	55
27	Recent progress in carbon-based nanoarchitectures for advanced supercapacitors. Advanced Composites and Hybrid Materials, 2018, 1, 32-55.	21.1	92
28	Codepositing Mussel-Inspired Nanohybrids onto One-Dimensional Fibers under â€œGreenâ€•Conditions for Significantly Enhanced Surface/Interfacial Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 4412-4420.	6.7	66
29	Construction of oil-unidirectional membrane for integrated oil collection with lossless transportation and oil-in-water emulsion purification. Journal of Membrane Science, 2018, 549, 67-74.	8.2	107
30	Segregation-induced in situ hydrophilic modification of poly (vinylidene fluoride) ultrafiltration membranes via sticky poly (ethylene glycol) blending. Journal of Membrane Science, 2018, 563, 22-30.	8.2	159
31	Biomimetic Silicification on Membrane Surface for Highly Efficient Treatments of Both Oil-in-Water Emulsion and Protein Wastewater. ACS Applied Materials & Interfaces, 2018, 10, 29982-29991.	8.0	101
32	Building Nanoporous Metalâ€“Organic Frameworks â€œArmorâ€•on Fibers for High-Performance Composite Materials. ACS Applied Materials & Interfaces, 2017, 9, 5590-5599.	8.0	161
33	Bio-inspired Ni²⁺-polyphenol hydrophilic network to achieve unconventional high-flux nanofiltration membranes for environmental remediation. Chemical Communications, 2017, 53, 6128-6131.	4.1	84
34	Simply realizing â€œwater diodeâ€•Janus membranes for multifunctional smart applications. Materials Horizons, 2017, 4, 701-708.	12.2	186