Zhiwei Wang

List of Publications by Year
in descending order

287 papers	15,222 citations	12330 69 h-index	29157 104 g-index
293 all docs	293 docs citations	293 times ranked	10676 citing authors

#	Article	IF	Citations
1	Membrane cleaning in membrane bioreactors: A review. Journal of Membrane Science, 2014, 468, 276-307.	8.2	637
2	Extracellular polymeric substances (EPS) properties and their effects on membrane fouling in a submerged membrane bioreactor. Water Research, 2009, 43, 2504-2512.	11.3	518
3	Characterization of dissolved organic matter in a submerged membrane bioreactor by using three-dimensional excitation and emission matrix fluorescence spectroscopy. Water Research, 2009, 43, 1533-1540.	11.3	396
4	Membrane fouling in a submerged membrane bioreactor (MBR) under sub-critical flux operation: Membrane foulant and gel layer characterization. Journal of Membrane Science, 2008, 325, 238-244.	8.2	324
5	An anaerobic dynamic membrane bioreactor (AnDMBR) for landfill leachate treatment: Performance and microbial community identification. Bioresource Technology, 2014, 161, 29-39.	9.6	220
6	Correlating microbial community structure and composition with aeration intensity in submerged membrane bioreactors by 454 high-throughput pyrosequencing. Water Research, 2013, 47, 859-869.	11.3	218
7	Ultrahigh energy density of aÂN, O codoped carbon nanosphere based all-solid-state symmetric supercapacitor. Journal of Materials Chemistry A, 2019, 7, 1177-1186.	10.3	188
8	Encapsulation of NiO nanoparticles in mesoporous carbon nanospheres for advanced energy storage. Chemical Engineering Journal, 2017, 308, 240-247.	12.7	163
9	Cooking carbon with protic salt: Nitrogen and sulfur self-doped porous carbon nanosheets for supercapacitors. Chemical Engineering Journal, 2018, 347, 233-242.	12.7	160
10	Perspective on enhancing the anaerobic digestion of waste activated sludge. Journal of Hazardous Materials, 2020, 389, 121847.	12.4	160
11	Constructing interlayer to tailor structure and performance of thin-film composite polyamide membranes: A review. Advances in Colloid and Interface Science, 2020, 282, 102204.	14.7	154
12	Formation of dynamic membrane in an anaerobic membrane bioreactor for municipal wastewater treatment. Chemical Engineering Journal, 2010, 165, 175-183.	12.7	151
13	Template-Free, Self-Doped Approach to Porous Carbon Spheres with High N/O Contents for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 7024-7034.	6.7	147
14	Characterization of membrane foulants in an anaerobic non-woven fabric membrane bioreactor for municipal wastewater treatment. Chemical Engineering Journal, 2009, 155, 709-715.	12.7	138
15	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. Environmental Science & Technology, 2020, 54, 11611-11621.	10.0	137
16	Synergistic design of aÂN, O co-doped honeycomb carbon electrode and an ionogel electrolyte enabling all-solid-state supercapacitors with an ultrahigh energy density. Journal of Materials Chemistry A, 2019, 7, 816-826.	10.3	134
17	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. Electrochimica Acta, 2016, 205, 132-141.	5.2	130
18	A general strategy to synthesize high-level N-doped porous carbons via Schiff-base chemistry for supercapacitors. Journal of Materials Chemistry A, 2018, 6, 12334-12343.	10.3	130

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19	Acute Responses of Microorganisms from Membrane Bioreactors in the Presence of NaOCl: Protective Mechanisms of Extracellular Polymeric Substances. Environmental Science & Technology, 2017, 51, 3233-3241.	10.0	128
20	Recent advances in Cu-Fenton systems for the treatment of industrial wastewaters: Role of Cu complexes and Cu composites. Journal of Hazardous Materials, 2020, 392, 122261.	12.4	126
21	Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO2 nanosheet-supported Pt nanocatalysts. Applied Catalysis B: Environmental, 2020, 274, 118963.	20.2	125
22	Relationship between sludge characteristics and membrane flux determination in submerged membrane bioreactors. Journal of Membrane Science, 2006, 284, 87-94.	8.2	117
23	Carbon nanotube filter functionalized with iron oxychloride for flow-through electro-Fenton. Applied Catalysis B: Environmental, 2020, 260, 118204.	20.2	117
24	Research and applications of membrane bioreactors in China: Progress and prospect. Separation and Purification Technology, 2008, 62, 249-263.	7.9	114
25	Supported Atomically-Precise Gold Nanoclusters for Enhanced Flow-through Electro-Fenton. Environmental Science & Technology, 2020, 54, 5913-5921.	10.0	113
26	Microbial responses to membrane cleaning using sodium hypochlorite in membrane bioreactors: Cell integrity, key enzymes and intracellular reactive oxygen species. Water Research, 2016, 88, 293-300.	11.3	112
27	Performances of anaerobic and aerobic membrane bioreactors for the treatment of synthetic textile wastewater. Bioresource Technology, 2015, 192, 564-573.	9.6	111
28	Hydrophilic Selective Nanochannels Created by Metal Organic Frameworks in Nanofiltration Membranes Enhance Rejection of Hydrophobic Endocrine-Disrupting Compounds. Environmental Science & Technology, 2019, 53, 13776-13783.	10.0	111
29	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). Environmental Science & Technology, 2019, 53, 1527-1535.	10.0	111
30	Development of an Electrochemical Ceramic Membrane Filtration System for Efficient Contaminant Removal from Waters. Environmental Science & Technology, 2018, 52, 4117-4126.	10.0	110
31	Assessment of SMP fouling by foulantâ€“membrane interaction energy analysis. Journal of Membrane Science, 2013, 446, 154-163.	8.2	109
32	Long-term investigation of a novel electrochemical membrane bioreactor for low-strength municipal wastewater treatment. Water Research, 2015, 78, 98-110.	11.3	105
33	N, S Co-doped hierarchical porous carbon rods derived from protic salt: Facile synthesis for high energy density supercapacitors. Electrochimica Acta, 2018, 274, 378-388.	5.2	105
34	Sulfur-based autotrophic denitrification of drinking water using a membrane bioreactor. Chemical Engineering Journal, 2015, 268, 180-186.	12.7	104
35	High-energy flexible solid-state supercapacitors based on O, N, S-tridoped carbon electrodes and a 3.5â€V gel-type electrolyte. Chemical Engineering Journal, 2019, 372, 1216-1225.	12.7	103
36	Recent advances on electroactive CNT-based membranes for environmental applications: The perfect match of electrochemistry and membrane separation. Chinese Chemical Letters, 2020, 31, 2539-2548.	9.0	103

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37	Catalytic removal of volatile organic compounds using ordered porous transition metal oxide and supported noble metal catalysts. Chinese Journal of Catalysis, 2016, 37, 1193-1205.	14.0	101
38	Deep-eutectic-solvent synthesis of N/O self-doped hollow carbon nanorods for efficient energy storage. Chemical Communications, 2019, 55, 11219-11222.	4.1	101
39	Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C3N4Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. Applied Catalysis B: Environmental, 2021, 281, 119519.	20.2	99
40	Effects of solvent compositions on physicochemical properties and anti-fouling ability of PVDF microfiltration membranes for wastewater treatment. Desalination, 2012, 297, 79-86.	8.2	98
41	Chemical cleaning protocols for thin film composite (TFC) polyamide forward osmosis membranes used for municipal wastewater treatment. Journal of Membrane Science, 2015, 475, 184-192.	8.2	98
42	Porous metal organic framework CuBDC nanosheet incorporated thin-film nanocomposite membrane for high-performance forward osmosis. Journal of Membrane Science, 2019, 573, 46-54.	8.2	97
43	Comparison of biofouling mechanisms between cellulose triacetate (CTA) and thin-film composite (TFC) polyamide forward osmosis membranes in osmotic membrane bioreactors. Bioresource Technology, 2016, 202, 50-58.	9.6	96
44	Dually Charged MOF-Based Thin-Film Nanocomposite Nanofiltration Membrane for Enhanced Removal of Charged Pharmaceutically Active Compounds. Environmental Science & Technology, 2020, 54, 7619-7628.	10.0	95
45	Applications of membrane bioreactors for water reclamation: Micropollutant removal, mechanisms and perspectives. Bioresource Technology, 2018, 269, 532-543.	9.6	94
46	A novel composite conductive microfiltration membrane and its anti-fouling performance with an external electric field in membrane bioreactors. Scientific Reports, 2015, 5, 9268.	3.3	92
47	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered Ti₃C₂O_x MXene via Adsorption Coupled with Catalytic Reduction Mechanism. Environmental Science & Technology, 2020, 54, 16212-16220.	10.0	92
48	Effect of hypochlorite cleaning on the physiochemical characteristics of polyvinylidene fluoride membranes. Chemical Engineering Journal, 2010, 162, 1050-1056.	12.7	91
49	Membrane fouling in an anaerobic dynamic membrane bioreactor (AnDMBR) for municipal wastewater treatment: Characteristics of membrane foulants and bulk sludge. Process Biochemistry, 2011, 46, 1538-1544.	3.7	91
50	Microbial communities in an anaerobic dynamic membrane bioreactor (AnDMBR) for municipal wastewater treatment: Comparison of bulk sludge and cake layer. Process Biochemistry, 2013, 48, 510-516.	3.7	90
51	Role of dissolved organic matters (DOM) in membrane fouling of membrane bioreactors for municipal wastewater treatment. Journal of Hazardous Materials, 2010, 178, 377-384.	12.4	89
52	Highly-efficient and selective adsorption of anionic dyes onto hollow polymer microcapsules having a high surface-density of amino groups: Isotherms, kinetics, thermodynamics and mechanism. Journal of Colloid and Interface Science, 2019, 542, 123-135.	9.4	88
53	Backpulsing technology applied in MF and UF processes for membrane fouling mitigation: A review. Journal of Membrane Science, 2019, 587, 117136.	8.2	88
54	Metal-organic framework enables ultraselective polyamide membrane for desalination and water reuse. Science Advances, 2022, 8, eabm4149.	10.3	87

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55	Antibiofouling Polyvinylidene Fluoride Membrane Modified by Quaternary Ammonium Compound: Direct Contact-Killing versus Induced Indirect Contact-Killing. Environmental Science & Technology, 2016, 50, 5086-5093.	10.0	86
56	Cost-effective Chlorella biomass production from dilute wastewater using a novel photosynthetic microbial fuel cell (PMFC). Water Research, 2017, 108, 356-364.	11.3	85
57	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. Journal of Hazardous Materials, 2020, 392, 122258.	12.4	85
58	A Review of Membrane Fouling in MBRs: Characteristics and Role of Sludge Cake Formed on Membrane Surfaces. Separation Science and Technology, 2009, 44, 3571-3596.	2.5	84
59	Improving the pore-ion size compatibility between poly(ionic liquid)-derived carbons and high-voltage electrolytes for high energy-power supercapacitors. Chemical Engineering Journal, 2020, 382, 122945.	12.7	81
60	A universal strategy to obtain highly redox-active porous carbons for efficient energy storage. Journal of Materials Chemistry A, 2020, 8, 3717-3725.	10.3	79
61	Recent advances in membrane bio-technologies for sludge reduction and treatment. Biotechnology Advances, 2013, 31, 1187-1199.	11.7	78
62	Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. Chinese Chemical Letters, 2020, 31, 1226-1230.	9.0	78
63	Artificial intelligence-incorporated membrane fouling prediction for membrane-based processes in the past 20 years: A critical review. Water Research, 2022, 216, 118299.	11.3	78
64	Fabrication of core@shell structural Fe-Fe2O3@PHCP nanochains with high saturation magnetization and abundant amino groups for hexavalent chromium adsorption and reduction. Journal of Hazardous Materials, 2020, 384, 121483.	12.4	77
65	Contaminant Removal from Source Waters Using Cathodic Electrochemical Membrane Filtration: Mechanisms and Implications. Environmental Science & Technology, 2017, 51, 2757-2765.	10.0	76
66	Large-scale fabrication of N-doped porous carbon nanosheets for dye adsorption and supercapacitor applications. Nanoscale, 2019, 11, 8785-8797.	5.6	75
67	A pilot-scale forward osmosis membrane system for concentrating low-strength municipal wastewater: performance and implications. Scientific Reports, 2016, 6, 21653.	3.3	74
68	Dynamically vulcanized PP/EPDM blends with balanced stiffness and toughness via in-situ compatibilization of MAA and excess ZnO nanoparticles: Preparation, structure and properties. Composites Part B: Engineering, 2019, 160, 147-157.	12.0	74
69	Organic matter recovery from municipal wastewater by using dynamic membrane separation process. Chemical Engineering Journal, 2013, 219, 190-199.	12.7	72
70	Nitrogen-Enriched Hollow Porous Carbon Nanospheres with Tailored Morphology and Microstructure for All-Solid-State Symmetric Supercapacitors. ACS Applied Energy Materials, 2018, 1, 4293-4303.	5.1	72
71	Role of GAC-MnO2 catalyst for triggering the extracellular electron transfer and boosting CH4 production in syntrophic methanogenesis. Chemical Engineering Journal, 2020, 383, 123211.	12.7	72
72	Sludge rheological and physiological characteristics in a pilot-scale submerged membrane bioreactor. Desalination, 2007, 212, 152-164.	8.2	70

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73	Surface modification of polyvinylidene fluoride membrane by atom-transfer radical-polymerization of quaternary ammonium compound for mitigating biofouling. Journal of Membrane Science, 2019, 570-571, 286-293.	8.2	70
74	Effects of various factors on critical flux in submerged membrane bioreactors for municipal wastewater treatment. Separation and Purification Technology, 2008, 62, 56-63.	7.9	69
75	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N₂: Mechanisms and Implications. Environmental Science & Technology, 2021, 55, 10695-10703.	10.0	68
76	Membrane bioreactors fed with different COD/N ratio wastewater: impacts on microbial community, microbial products, and membrane fouling. Environmental Science and Pollution Research, 2015, 22, 11436-11445.	5.3	67
77	Self-Enhanced Decomplexation of Cu-Organic Complexes and Cu Recovery from Wastewaters Using an Electrochemical Membrane Filtration System. Environmental Science & Technology, 2021, 55, 655-664.	10.0	67
78	Coupling ammonia nitrogen adsorption and regeneration unit with a high-load anoxic/aerobic process to achieve rapid and efficient pollutants removal for wastewater treatment. Water Research, 2020, 170, 115280.	11.3	66
79	Supported ultralow loading Pt catalysts with high H2O-, CO2-, and SO2-resistance for acetone removal. Applied Catalysis A: General, 2019, 579, 106-115.	4.3	65
80	A forward osmosis membrane system for the post-treatment of MBR-treated landfill leachate. Journal of Membrane Science, 2014, 471, 192-200.	8.2	64
81	Recover energy from domestic wastewater using anaerobic membrane bioreactor: Operating parameters optimization and energy balance analysis. Energy, 2016, 98, 146-154.	8.8	64
82	Modification of microfiltration membranes by alkoxysilane polycondensation induced quaternary ammonium compounds grafting for biofouling mitigation. Journal of Membrane Science, 2018, 549, 165-172.	8.2	64
83	Schiff-Base/Resin Copolymer under Hypersaline Condition to High-Level N-Doped Porous Carbon Nanosheets for Supercapacitors. ACS Applied Nano Materials, 2018, 1, 4998-5007.	5.0	63
84	Disintegration and acidification of MBR sludge under alkaline conditions. Chemical Engineering Journal, 2013, 231, 206-213.	12.7	62
85	Integrating microbial fuel cells with anaerobic acidification and forward osmosis membrane for enhancing bio-electricity and water recovery from low-strength wastewater. Water Research, 2017, 110, 74-82.	11.3	62
86	Alkali-assisted membrane cleaning for fouling control of anaerobic ceramic membrane bioreactor. Bioresource Technology, 2017, 240, 25-32.	9.6	61
87	Distribution and transformation of molecular weight of organic matters in membrane bioreactor and conventional activated sludge process. Chemical Engineering Journal, 2009, 150, 396-402.	12.7	60
88	Insights into membrane fouling of submerged membrane bioreactors by characterizing different fouling layers formed on membrane surfaces. Chemical Engineering Journal, 2012, 179, 169-177.	12.7	59
89	Soluble microbial products in membrane bioreactors in the presence of ZnO nanoparticles. Journal of Membrane Science, 2014, 451, 169-176.	8.2	58
90	Thin-film nanocomposite membranes incorporated with water stable metal-organic framework CuBTTri for mitigating biofouling. Journal of Membrane Science, 2019, 582, 289-297.	8.2	58

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91	Effect of the Presence of Carbon in Ti₄O₇ Electrodes on Anodic Oxidation of Contaminants. Environmental Science & Technology, 2020, 54, 5227-5236.	10.0	58
92	Degradation of sulfadiazine in drinking water by a cathodic electrochemical membrane filtration process. Electrochimica Acta, 2018, 277, 77-87.	5.2	57
93	Tunable-quaternary (N, S, O, P)-doped porous carbon microspheres with ultramicropores for CO2 capture. Applied Surface Science, 2020, 507, 145130.	6.1	57
94	Metalâ€"Organic Framework Nanosheets for Thin-Film Composite Membranes with Enhanced Permeability and Selectivity. ACS Applied Nano Materials, 2020, 3, 9238-9248.	5.0	57
95	Effect of ultrasonic power density on extracting loosely bound and tightly bound extracellular polymeric substances. Desalination, 2013, 329, 35-40.	8.2	56
96	Permeability recovery of fouled forward osmosis membranes by chemical cleaning during a long-term operation of anaerobic osmotic membrane bioreactors treating low-strength wastewater. Water Research, 2017, 123, 505-512.	11.3	56
97	Modification of poly(vinylidene fluoride)/polyethersulfone blend membrane with polyvinyl alcohol for improving antifouling ability. Journal of Membrane Science, 2014, 466, 293-301.	8.2	55
98	A chloride-radical-mediated electrochemical filtration system for rapid and effective transformation of ammonia to nitrogen. Chemosphere, 2019, 229, 383-391.	8.2	55
99	Enhanced removal of pharmaceuticals and personal care products from real municipal wastewater using an electrochemical membrane bioreactor. Bioresource Technology, 2020, 311, 123579.	9.6	55
100	Power production from different types of sewage sludge using microbial fuel cells:ÂA comparative study with energetic and microbiological perspectives. Journal of Power Sources, 2013, 235, 280-288.	7.8	54
101	Simulated solar light driven photothermal catalytic purification of toluene over iron oxide supported single atom Pt catalyst. Applied Catalysis B: Environmental, 2021, 298, 120612.	20.2	54
102	QAC modified PVDF membranes: Antibiofouling performance, mechanisms, and effects on microbial communities in an MBR treating municipal wastewater. Water Research, 2017, 120, 256-264.	11.3	53
103	Development of a moving-bed electrochemical membrane bioreactor to enhance removal of low-concentration antibiotic from wastewater. Bioresource Technology, 2019, 293, 122022.	9.6	53
104	Support promotion effect on the SO2 and K+ co-poisoning resistance of MnO2/TiO2 for NH3-SCR of NO. Journal of Hazardous Materials, 2021, 416, 126117.	12.4	53
105	Characterization of membrane foulants in a full-scale membrane bioreactor for supermarket wastewater treatment. Process Biochemistry, 2011, 46, 1001-1009.	3.7	52
106	Potential Foulants and Fouling Indicators in MBRs: A Critical Review. Separation Science and Technology, 2013, 48, 22-50.	2.5	52
107	Design of shape-memory materials based on sea-island structured EPDM/PP TPVs via in-situ compatibilization of methacrylic acid and excess zinc oxide nanoparticles. Composites Science and Technology, 2018, 167, 431-439.	7.8	52
108	A ClO -mediated photoelectrochemical filtration system for highly-efficient and complete ammonia conversion. Journal of Hazardous Materials, 2020, 400, 123246.	12.4	51

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109	Study on zeolite enhanced contactâ€"adsorption regenerationâ€"stabilization process for nitrogen removal. Journal of Hazardous Materials, 2008, 156, 317-326.	12.4	50
110	Fouling behaviours of two membranes in a submerged membrane bioreactor for municipal wastewater treatment. Journal of Membrane Science, 2011, 382, 60-69.	8.2	50
111	Effects of packing carriers and ultrasonication on membrane fouling and sludge properties of anaerobic side-stream reactor coupled membrane reactors for sludge reduction. Journal of Membrane Science, 2019, 581, 312-320.	8.2	49
112	Enhanced removal of hydrophobic endocrine disrupting compounds from wastewater by nanofiltration membranes intercalated with hydrophilic MoS2 nanosheets: Role of surface properties and internal nanochannels. Journal of Membrane Science, 2021, 628, 119267.	8.2	49
113	Effective control of membrane fouling by filamentous bacteria in a submerged membrane bioreactor. Chemical Engineering Journal, 2010, 158, 608-615.	12.7	47
114	Enhanced antifouling behaviours of polyvinylidene fluoride membrane modified through blending with nano-TiO 2 /polyethylene glycol mixture. Applied Surface Science, 2015, 345, 418-427.	6.1	47
115	Antifouling performance and mechanisms in an electrochemical ceramic membrane reactor for wastewater treatment. Journal of Membrane Science, 2019, 570-571, 355-361.	8.2	47
116	Metagenomes reveal microbial structures, functional potentials, and biofouling-related genes in a membrane bioreactor. Applied Microbiology and Biotechnology, 2016, 100, 5109-5121.	3.6	46
117	A pilot-scale anaerobic membrane bioreactor under short hydraulic retention time for municipal wastewater treatment: performance and microbial community identification. Journal of Water Reuse and Desalination, 2018, 8, 58-67.	2.3	46
118	Fluorescent dissolved organic matter variations in a submerged membrane bioreactor under different sludge retention times. Journal of Membrane Science, 2010, 355, 151-157.	8.2	45
119	Impact of Temperature Seasonal Change on Sludge Characteristics and Membrane Fouling in a Submerged Membrane Bioreactor. Separation Science and Technology, 2010, 45, 920-927.	2.5	45
120	Sludge reduction and process performance in a submerged membrane bioreactor with aquatic worms. Chemical Engineering Journal, 2011, 172, 929-935.	12.7	44
121	Hydrophilic/underwater superoleophobic graphene oxide membrane intercalated by TiO2 nanotubes for oil/water separation. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	6.0	44
122	Heteroatom-doped porous carbon nanoparticle-decorated carbon cloth (HPCN/CC) as efficient anode electrode for microbial fuel cells (MFCs). Journal of Cleaner Production, 2022, 336, 130374.	9.3	44
123	Nano-TiO2 membrane adsorption reactor (MAR) for virus removal in drinking water. Chemical Engineering Journal, 2013, 230, 180-187.	12.7	43
124	Antifouling behaviours of PVDF/nano-TiO₂ composite membranes revealed by surface energetics and quartz crystal microbalance monitoring. RSC Advances, 2014, 4, 43590-43598.	3.6	43
125	Polyvinylidene fluoride membrane blended with quaternary ammonium compound for enhancing anti-biofouling properties: Effects of dosage. Journal of Membrane Science, 2016, 520, 66-75.	8.2	43
126	Removal of Cu(II) ions from contaminated waters using a conducting microfiltration membrane. Journal of Hazardous Materials, 2017, 339, 182-190.	12.4	43

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127	Impacts of quaternary ammonium compounds on membrane bioreactor performance: Acute and chronic responses of microorganisms. Water Research, 2018, 134, 153-161.	11.3	43
128	In-situ modification of PVDF membrane during phase-inversion process using carbon nanosphere sol as coagulation bath for enhancing anti-fouling ability. Journal of Membrane Science, 2017, 526, 272-280.	8.2	42
129	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. Environmental Science and Technology Letters, 2022, 9, 247-257.	8.7	42
130	Enhancing rejection performance of tetracycline resistance genes by a TiO2/AgNPs-modified nanofiber forward osmosis membrane. Chemical Engineering Journal, 2020, 382, 123052.	12.7	40
131	Rapid decontamination of tetracycline hydrolysis product using electrochemical CNT filter: Mechanism, impacting factors and pathways. Chemosphere, 2020, 244, 125525.	8.2	40
132	Direct Electron Transfer Coordinated by Oxygen Vacancies Boosts Selective Nitrate Reduction to N₂ on a Coâ€“CuO_x Electroactive Filter. Environmental Science & Technology, 2022, 56, 8673-8681.	10.0	39
133	Simultaneous oxidation and sorption of highly toxic Sb(III) using a dual-functional electroactive filter. Environmental Pollution, 2019, 251, 72-80.	7.5	38
134	Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. Chemosphere, 2020, 243, 125421.	8.2	38
135	Surface Modulation and Chromium Complexation: All-in-One Solution for the Cr(VI) Sequestration with Bifunctional Molecules. Environmental Science & Technology, 2020, 54, 8373-8379.	10.0	38
136	Preferential removal of 2,4-dichlorophenoxyacetic acid from contaminated waters using an electrocatalytic ceramic membrane filtration system: Mechanisms and implications. Chemical Engineering Journal, 2020, 387, 124132.	12.7	38
137	Application of flat-sheet membrane to thickening and digestion of waste activated sludge (WAS). Journal of Hazardous Materials, 2008, 154, 535-542.	12.4	37
138	Enhanced waste activated sludge digestion using a submerged anaerobic dynamic membrane bioreactor: performance, sludge characteristics and microbial community. Scientific Reports, 2016, 6, 20111.	3.3	37
139	Influence of Solution Chemistry and Soft Protein Coronas on the Interactions of Silver Nanoparticles with Model Biological Membranes. Environmental Science & Technology, 2016, 50, 2301-2309.	10.0	37
140	One-step Sb(III) decontamination using a bifunctional photoelectrochemical filter. Journal of Hazardous Materials, 2020, 389, 121840.	12.4	37
141	Advances in metal(loid) oxyanion removal by zerovalent iron: Kinetics, pathways, and mechanisms. Chemosphere, 2021, 280, 130766.	8.2	37
142	Membrane biofouling control using polyvinylidene fluoride membrane blended with quaternary ammonium compound assembled on carbon material. Journal of Membrane Science, 2017, 539, 229-237.	8.2	36
143	Comparison of antifouling behaviours of modified PVDF membranes by TiO2 sols with different nanoparticle size: Implications of casting solution stability. Journal of Membrane Science, 2017, 525, 378-386.	8.2	36
144	Three-dimensionally ordered macroporous CoCr 2 O 4 -supported Auâ€“Pd alloy nanoparticles: Highly active catalysts for methane combustion. Catalysis Today, 2017, 281, 467-476.	4.4	36

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145	Recent advances in nature-inspired antifouling membranes for water purification. Chemical Engineering Journal, 2022, 432, 134425.	12.7	36
146	Identifying microbial community evolution in membrane bioreactors coupled with anaerobic side-stream reactor, packing carriers and ultrasonication for sludge reduction by linear discriminant analysis. Bioresource Technology, 2019, 291, 121920.	9.6	35
147	Effect of support nature on catalytic activity of the bimetallic RuCo nanoparticles for the oxidative removal of 1,2-dichloroethane. Applied Catalysis B: Environmental, 2021, 285, 119804.	20.2	35
148	Recent Advances in Microbial Fuel Cells Integrated with Sludge Treatment. Chemical Engineering and Technology, 2012, 35, 1733-1743.	1.5	34
149	Long-term operation of an MBR in the presence of zinc oxide nanoparticles reveals no significant adverse effects on its performance. Journal of Membrane Science, 2014, 471, 258-264.	8.2	34
150	Relationship between polymers compatibility and casting solution stability in fabricating PVDF/PVA membranes. Journal of Membrane Science, 2017, 537, 263-271.	8.2	34
151	Environmentally friendly room temperature synthesis of hierarchical porous Î±-Ni(OH)₂ nanosheets for supercapacitor and catalysis applications. Green Chemistry, 2019, 21, 5960-5968.	9.0	34
152	Removal of p-chloroaniline from polluted waters using a cathodic electrochemical ceramic membrane reactor. Separation and Purification Technology, 2019, 211, 753-763.	7.9	33
153	Antibiofouling performance and mechanisms of a modified polyvinylidene fluoride membrane in an MBR for wastewater treatment: Role of silver@silica nanopollens. Water Research, 2020, 176, 115749.	11.3	33
154	Zr6O8-porphyrinic MOFs as promising catalysts for the boosting photocatalytic degradation of contaminants in high salinity wastewater. Chemical Engineering Journal, 2022, 440, 135883.	12.7	33
155	Boosting Cr(VI) detoxification and sequestration efficiency with carbon nanotube electrochemical filter functionalized with nanoscale polyaniline: Performance and mechanism. Science of the Total Environment, 2019, 695, 133926.	8.0	32
156	Pdâ€"O2 interaction and singlet oxygen formation in a novel reactive electrochemical membrane for ultrafast sulfamethoxazole oxidation. Chemical Engineering Journal, 2022, 428, 131194.	12.7	32
157	Analysis of Nitrification Efficiency and Microbial Community in a Membrane Bioreactor Fed with Low COD/N-Ratio Wastewater. PLoS ONE, 2013, 8, e63059.	2.5	32
158	Membrane fouling properties under different filtration modes in a submerged membrane bioreactor. Process Biochemistry, 2010, 45, 1699-1706.	3.7	31
159	Desalination: From Ancient to Present and Future. Water (Switzerland), 2021, 13, 2222.	2.7	31
160	Evaluating of the performance of natural mineral vermiculite modified PVDF membrane for oil/water separation by membrane fouling model and XDLVO theory. Journal of Membrane Science, 2022, 641, 119886.	8.2	31
161	Catalytic performance of cobalt oxide-supported gold-palladium nanocatalysts for the removal of toluene and o -xylene. Chinese Journal of Catalysis, 2017, 38, 207-216.	14.0	30
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