

Zhiwei Wang

List of Publications by Year in descending order

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287
papers

15,222
citations

12322

69
h-index

29127

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. <i>Journal of Membrane Science</i> , 2014, 468, 276-307.	4.1	637
2	Extracellular polymeric substances (EPS) properties and their effects on membrane fouling in a submerged membrane bioreactor. <i>Water Research</i> , 2009, 43, 2504-2512.	5.3	518
3	Characterization of dissolved organic matter in a submerged membrane bioreactor by using three-dimensional excitation and emission matrix fluorescence spectroscopy. <i>Water Research</i> , 2009, 43, 1533-1540.	5.3	396
4	Membrane fouling in a submerged membrane bioreactor (MBR) under sub-critical flux operation: Membrane foulant and gel layer characterization. <i>Journal of Membrane Science</i> , 2008, 325, 238-244.	4.1	324
5	An anaerobic dynamic membrane bioreactor (AnDMBR) for landfill leachate treatment: Performance and microbial community identification. <i>Bioresource Technology</i> , 2014, 161, 29-39.	4.8	220
6	Correlating microbial community structure and composition with aeration intensity in submerged membrane bioreactors by 454 high-throughput pyrosequencing. <i>Water Research</i> , 2013, 47, 859-869.	5.3	218
7	Ultrahigh energy density of aN, O codoped carbon nanosphere based all-solid-state symmetric supercapacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1177-1186.	5.2	188
8	Encapsulation of NiO nanoparticles in mesoporous carbon nanospheres for advanced energy storage. <i>Chemical Engineering Journal</i> , 2017, 308, 240-247.	6.6	163
9	Cooking carbon with protic salt: Nitrogen and sulfur self-doped porous carbon nanosheets for supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 347, 233-242.	6.6	160
10	Perspective on enhancing the anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020, 389, 121847.	6.5	160
11	Constructing interlayer to tailor structure and performance of thin-film composite polyamide membranes: A review. <i>Advances in Colloid and Interface Science</i> , 2020, 282, 102204.	7.0	154
12	Formation of dynamic membrane in an anaerobic membrane bioreactor for municipal wastewater treatment. <i>Chemical Engineering Journal</i> , 2010, 165, 175-183.	6.6	151
13	Template-Free, Self-Doped Approach to Porous Carbon Spheres with High N/O Contents for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7024-7034.	3.2	147
14	Characterization of membrane foulants in an anaerobic non-woven fabric membrane bioreactor for municipal wastewater treatment. <i>Chemical Engineering Journal</i> , 2009, 155, 709-715.	6.6	138
15	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. <i>Environmental Science & Technology</i> , 2020, 54, 11611-11621.	4.6	137
16	Synergistic design of aN, O co-doped honeycomb carbon electrode and an ionogel electrolyte enabling all-solid-state supercapacitors with an ultrahigh energy density. <i>Journal of Materials Chemistry A</i> , 2019, 7, 816-826.	5.2	134
17	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2016, 205, 132-141.	2.6	130
18	A general strategy to synthesize high-level N-doped porous carbons via Schiff-base chemistry for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12334-12343.	5.2	130

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19	Acute Responses of Microorganisms from Membrane Bioreactors in the Presence of NaOCl: Protective Mechanisms of Extracellular Polymeric Substances. <i>Environmental Science & Technology</i> , 2017, 51, 3233-3241.	4.6	128
20	Recent advances in Cu-Fenton systems for the treatment of industrial wastewaters: Role of Cu complexes and Cu composites. <i>Journal of Hazardous Materials</i> , 2020, 392, 122261.	6.5	126
21	Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO ₂ nanosheet-supported Pt nanocatalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 118963.	10.8	125
22	Relationship between sludge characteristics and membrane flux determination in submerged membrane bioreactors. <i>Journal of Membrane Science</i> , 2006, 284, 87-94.	4.1	117
23	Carbon nanotube filter functionalized with iron oxychloride for flow-through electro-Fenton. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118204.	10.8	117
24	Research and applications of membrane bioreactors in China: Progress and prospect. <i>Separation and Purification Technology</i> , 2008, 62, 249-263.	3.9	114
25	Supported Atomically-Precise Gold Nanoclusters for Enhanced Flow-through Electro-Fenton. <i>Environmental Science & Technology</i> , 2020, 54, 5913-5921.	4.6	113
26	Microbial responses to membrane cleaning using sodium hypochlorite in membrane bioreactors: Cell integrity, key enzymes and intracellular reactive oxygen species. <i>Water Research</i> , 2016, 88, 293-300.	5.3	112
27	Performances of anaerobic and aerobic membrane bioreactors for the treatment of synthetic textile wastewater. <i>Bioresource Technology</i> , 2015, 192, 564-573.	4.8	111
28	Hydrophilic Selective Nanochannels Created by Metal Organic Frameworks in Nanofiltration Membranes Enhance Rejection of Hydrophobic Endocrine-Disrupting Compounds. <i>Environmental Science & Technology</i> , 2019, 53, 13776-13783.	4.6	111
29	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). <i>Environmental Science & Technology</i> , 2019, 53, 1527-1535.	4.6	111
30	Development of an Electrochemical Ceramic Membrane Filtration System for Efficient Contaminant Removal from Waters. <i>Environmental Science & Technology</i> , 2018, 52, 4117-4126.	4.6	110
31	Assessment of SMP fouling by foulant-membrane interaction energy analysis. <i>Journal of Membrane Science</i> , 2013, 446, 154-163.	4.1	109
32	Long-term investigation of a novel electrochemical membrane bioreactor for low-strength municipal wastewater treatment. <i>Water Research</i> , 2015, 78, 98-110.	5.3	105
33	N, S Co-doped hierarchical porous carbon rods derived from protic salt: Facile synthesis for high energy density supercapacitors. <i>Electrochimica Acta</i> , 2018, 274, 378-388.	2.6	105
34	Sulfur-based autotrophic denitrification of drinking water using a membrane bioreactor. <i>Chemical Engineering Journal</i> , 2015, 268, 180-186.	6.6	104
35	High-energy flexible solid-state supercapacitors based on O, N, S-tridoped carbon electrodes and a 3.5 V gel-type electrolyte. <i>Chemical Engineering Journal</i> , 2019, 372, 1216-1225.	6.6	103
36	Recent advances on electroactive CNT-based membranes for environmental applications: The perfect match of electrochemistry and membrane separation. <i>Chinese Chemical Letters</i> , 2020, 31, 2539-2548.	4.8	103

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37	Catalytic removal of volatile organic compounds using ordered porous transition metal oxide and supported noble metal catalysts. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1193-1205.	6.9	101
38	Deep-eutectic-solvent synthesis of N/O self-doped hollow carbon nanorods for efficient energy storage. <i>Chemical Communications</i> , 2019, 55, 11219-11222.	2.2	101
39	Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C ₃ N ₄ Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119519.	10.8	99
40	Effects of solvent compositions on physicochemical properties and anti-fouling ability of PVDF microfiltration membranes for wastewater treatment. <i>Desalination</i> , 2012, 297, 79-86.	4.0	98
41	Chemical cleaning protocols for thin film composite (TFC) polyamide forward osmosis membranes used for municipal wastewater treatment. <i>Journal of Membrane Science</i> , 2015, 475, 184-192.	4.1	98
42	Porous metal organic framework CuBDC nanosheet incorporated thin-film nanocomposite membrane for high-performance forward osmosis. <i>Journal of Membrane Science</i> , 2019, 573, 46-54.	4.1	97
43	Comparison of biofouling mechanisms between cellulose triacetate (CTA) and thin-film composite (TFC) polyamide forward osmosis membranes in osmotic membrane bioreactors. <i>Bioresource Technology</i> , 2016, 202, 50-58.	4.8	96
44	Dually Charged MOF-Based Thin-Film Nanocomposite Nanofiltration Membrane for Enhanced Removal of Charged Pharmaceutically Active Compounds. <i>Environmental Science & Technology</i> , 2020, 54, 7619-7628.	4.6	95
45	Applications of membrane bioreactors for water reclamation: Micropollutant removal, mechanisms and perspectives. <i>Bioresource Technology</i> , 2018, 269, 532-543.	4.8	94
46	A novel composite conductive microfiltration membrane and its anti-fouling performance with an external electric field in membrane bioreactors. <i>Scientific Reports</i> , 2015, 5, 9268.	1.6	92
47	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered Ti ₃ C ₂ O _x MXene via Adsorption Coupled with Catalytic Reduction Mechanism. <i>Environmental Science & Technology</i> , 2020, 54, 16212-16220.	4.6	92
48	Effect of hypochlorite cleaning on the physicochemical characteristics of polyvinylidene fluoride membranes. <i>Chemical Engineering Journal</i> , 2010, 162, 1050-1056.	6.6	91
49	Membrane fouling in an anaerobic dynamic membrane bioreactor (AnDMBR) for municipal wastewater treatment: Characteristics of membrane foulants and bulk sludge. <i>Process Biochemistry</i> , 2011, 46, 1538-1544.	1.8	91
50	Microbial communities in an anaerobic dynamic membrane bioreactor (AnDMBR) for municipal wastewater treatment: Comparison of bulk sludge and cake layer. <i>Process Biochemistry</i> , 2013, 48, 510-516.	1.8	90
51	Role of dissolved organic matters (DOM) in membrane fouling of membrane bioreactors for municipal wastewater treatment. <i>Journal of Hazardous Materials</i> , 2010, 178, 377-384.	6.5	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. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 123-135.	5.0	88
53	Backpulsing technology applied in MF and UF processes for membrane fouling mitigation: A review. <i>Journal of Membrane Science</i> , 2019, 587, 117136.	4.1	88
54	Metal-organic framework enables ultrasensitive polyamide membrane for desalination and water reuse. <i>Science Advances</i> , 2022, 8, eabm4149.	4.7	87

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55	Antibiofouling Polyvinylidene Fluoride Membrane Modified by Quaternary Ammonium Compound: Direct Contact-Killing versus Induced Indirect Contact-Killing. <i>Environmental Science & Technology</i> , 2016, 50, 5086-5093.	4.6	86
56	Cost-effective Chlorella biomass production from dilute wastewater using a novel photosynthetic microbial fuel cell (PMFC). <i>Water Research</i> , 2017, 108, 356-364.	5.3	85
57	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. <i>Journal of Hazardous Materials</i> , 2020, 392, 122258.	6.5	85
58	A Review of Membrane Fouling in MBRs: Characteristics and Role of Sludge Cake Formed on Membrane Surfaces. <i>Separation Science and Technology</i> , 2009, 44, 3571-3596.	1.3	84
59	Improving the pore-ion size compatibility between poly(ionic liquid)-derived carbons and high-voltage electrolytes for high energy-power supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 382, 122945.	6.6	81
60	A universal strategy to obtain highly redox-active porous carbons for efficient energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3717-3725.	5.2	79
61	Recent advances in membrane bio-technologies for sludge reduction and treatment. <i>Biotechnology Advances</i> , 2013, 31, 1187-1199.	6.0	78
62	Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. <i>Chinese Chemical Letters</i> , 2020, 31, 1226-1230.	4.8	78
63	Artificial intelligence-incorporated membrane fouling prediction for membrane-based processes in the past 20 years: A critical review. <i>Water Research</i> , 2022, 216, 118299.	5.3	78
64	Fabrication of core@shell structural Fe-Fe ₂ O ₃ @PHCP nanochains with high saturation magnetization and abundant amino groups for hexavalent chromium adsorption and reduction. <i>Journal of Hazardous Materials</i> , 2020, 384, 121483.	6.5	77
65	Contaminant Removal from Source Waters Using Cathodic Electrochemical Membrane Filtration: Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2017, 51, 2757-2765.	4.6	76
66	Large-scale fabrication of N-doped porous carbon nanosheets for dye adsorption and supercapacitor applications. <i>Nanoscale</i> , 2019, 11, 8785-8797.	2.8	75
67	A pilot-scale forward osmosis membrane system for concentrating low-strength municipal wastewater: performance and implications. <i>Scientific Reports</i> , 2016, 6, 21653.	1.6	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. <i>Composites Part B: Engineering</i> , 2019, 160, 147-157.	5.9	74
69	Organic matter recovery from municipal wastewater by using dynamic membrane separation process. <i>Chemical Engineering Journal</i> , 2013, 219, 190-199.	6.6	72
70	Nitrogen-Enriched Hollow Porous Carbon Nanospheres with Tailored Morphology and Microstructure for All-Solid-State Symmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018, 1, 4293-4303.	2.5	72
71	Role of GAC-MnO ₂ catalyst for triggering the extracellular electron transfer and boosting CH ₄ production in syntrophic methanogenesis. <i>Chemical Engineering Journal</i> , 2020, 383, 123211.	6.6	72
72	Sludge rheological and physiological characteristics in a pilot-scale submerged membrane bioreactor. <i>Desalination</i> , 2007, 212, 152-164.	4.0	70

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73	Surface modification of polyvinylidene fluoride membrane by atom-transfer radical-polymerization of quaternary ammonium compound for mitigating biofouling. <i>Journal of Membrane Science</i> , 2019, 570-571, 286-293.	4.1	70
74	Effects of various factors on critical flux in submerged membrane bioreactors for municipal wastewater treatment. <i>Separation and Purification Technology</i> , 2008, 62, 56-63.	3.9	69
75	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N_2 : Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2021, 55, 10695-10703.	4.6	68
76	Membrane bioreactors fed with different COD/N ratio wastewater: impacts on microbial community, microbial products, and membrane fouling. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11436-11445.	2.7	67
77	Self-Enhanced Decomplexation of Cu-Organic Complexes and Cu Recovery from Wastewaters Using an Electrochemical Membrane Filtration System. <i>Environmental Science & Technology</i> , 2021, 55, 655-664.	4.6	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. <i>Water Research</i> , 2020, 170, 115280.	5.3	66
79	Supported ultralow loading Pt catalysts with high H_2O -, CO_2 -, and SO_2 -resistance for acetone removal. <i>Applied Catalysis A: General</i> , 2019, 579, 106-115.	2.2	65
80	A forward osmosis membrane system for the post-treatment of MBR-treated landfill leachate. <i>Journal of Membrane Science</i> , 2014, 471, 192-200.	4.1	64
81	Recover energy from domestic wastewater using anaerobic membrane bioreactor: Operating parameters optimization and energy balance analysis. <i>Energy</i> , 2016, 98, 146-154.	4.5	64
82	Modification of microfiltration membranes by alkoxysilane polycondensation induced quaternary ammonium compounds grafting for biofouling mitigation. <i>Journal of Membrane Science</i> , 2018, 549, 165-172.	4.1	64
83	Schiff-Base/Resin Copolymer under Hypersaline Condition to High-Level N-Doped Porous Carbon Nanosheets for Supercapacitors. <i>ACS Applied Nano Materials</i> , 2018, 1, 4998-5007.	2.4	63
84	Disintegration and acidification of MBR sludge under alkaline conditions. <i>Chemical Engineering Journal</i> , 2013, 231, 206-213.	6.6	62
85	Integrating microbial fuel cells with anaerobic acidification and forward osmosis membrane for enhancing bio-electricity and water recovery from low-strength wastewater. <i>Water Research</i> , 2017, 110, 74-82.	5.3	62
86	Alkali-assisted membrane cleaning for fouling control of anaerobic ceramic membrane bioreactor. <i>Bioresource Technology</i> , 2017, 240, 25-32.	4.8	61
87	Distribution and transformation of molecular weight of organic matters in membrane bioreactor and conventional activated sludge process. <i>Chemical Engineering Journal</i> , 2009, 150, 396-402.	6.6	60
88	Insights into membrane fouling of submerged membrane bioreactors by characterizing different fouling layers formed on membrane surfaces. <i>Chemical Engineering Journal</i> , 2012, 179, 169-177.	6.6	59
89	Soluble microbial products in membrane bioreactors in the presence of ZnO nanoparticles. <i>Journal of Membrane Science</i> , 2014, 451, 169-176.	4.1	58
90	Thin-film nanocomposite membranes incorporated with water stable metal-organic framework CuBTTri for mitigating biofouling. <i>Journal of Membrane Science</i> , 2019, 582, 289-297.	4.1	58

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91	Effect of the Presence of Carbon in Ti ₄ O ₇ Electrodes on Anodic Oxidation of Contaminants. <i>Environmental Science & Technology</i> , 2020, 54, 5227-5236.	4.6	58
92	Degradation of sulfadiazine in drinking water by a cathodic electrochemical membrane filtration process. <i>Electrochimica Acta</i> , 2018, 277, 77-87.	2.6	57
93	Tunable-quaternary (N, S, O, P)-doped porous carbon microspheres with ultramicropores for CO ₂ capture. <i>Applied Surface Science</i> , 2020, 507, 145130.	3.1	57
94	Metal-Organic Framework Nanosheets for Thin-Film Composite Membranes with Enhanced Permeability and Selectivity. <i>ACS Applied Nano Materials</i> , 2020, 3, 9238-9248.	2.4	57
95	Effect of ultrasonic power density on extracting loosely bound and tightly bound extracellular polymeric substances. <i>Desalination</i> , 2013, 329, 35-40.	4.0	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. <i>Water Research</i> , 2017, 123, 505-512.	5.3	56
97	Modification of poly(vinylidene fluoride)/polyethersulfone blend membrane with polyvinyl alcohol for improving antifouling ability. <i>Journal of Membrane Science</i> , 2014, 466, 293-301.	4.1	55
98	A chloride-radical-mediated electrochemical filtration system for rapid and effective transformation of ammonia to nitrogen. <i>Chemosphere</i> , 2019, 229, 383-391.	4.2	55
99	Enhanced removal of pharmaceuticals and personal care products from real municipal wastewater using an electrochemical membrane bioreactor. <i>Bioresource Technology</i> , 2020, 311, 123579.	4.8	55
100	Power production from different types of sewage sludge using microbial fuel cells: A comparative study with energetic and microbiological perspectives. <i>Journal of Power Sources</i> , 2013, 235, 280-288.	4.0	54
101	Simulated solar light driven photothermal catalytic purification of toluene over iron oxide supported single atom Pt catalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120612.	10.8	54
102	QAC modified PVDF membranes: Antibiofouling performance, mechanisms, and effects on microbial communities in an MBR treating municipal wastewater. <i>Water Research</i> , 2017, 120, 256-264.	5.3	53
103	Development of a moving-bed electrochemical membrane bioreactor to enhance removal of low-concentration antibiotic from wastewater. <i>Bioresource Technology</i> , 2019, 293, 122022.	4.8	53
104	Support promotion effect on the SO ₂ and K ⁺ co-poisoning resistance of MnO ₂ /TiO ₂ for NH ₃ -SCR of NO. <i>Journal of Hazardous Materials</i> , 2021, 416, 126117.	6.5	53
105	Characterization of membrane foulants in a full-scale membrane bioreactor for supermarket wastewater treatment. <i>Process Biochemistry</i> , 2011, 46, 1001-1009.	1.8	52
106	Potential Foulants and Fouling Indicators in MBRs: A Critical Review. <i>Separation Science and Technology</i> , 2013, 48, 22-50.	1.3	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. <i>Composites Science and Technology</i> , 2018, 167, 431-439.	3.8	52
108	A ClO ⁻ mediated photoelectrochemical filtration system for highly-efficient and complete ammonia conversion. <i>Journal of Hazardous Materials</i> , 2020, 400, 123246.	6.5	51

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109	Study on zeolite enhanced contact adsorption regeneration stabilization process for nitrogen removal. <i>Journal of Hazardous Materials</i> , 2008, 156, 317-326.	6.5	50
110	Fouling behaviours of two membranes in a submerged membrane bioreactor for municipal wastewater treatment. <i>Journal of Membrane Science</i> , 2011, 382, 60-69.	4.1	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. <i>Journal of Membrane Science</i> , 2019, 581, 312-320.	4.1	49
112	Enhanced removal of hydrophobic endocrine disrupting compounds from wastewater by nanofiltration membranes intercalated with hydrophilic MoS ₂ nanosheets: Role of surface properties and internal nanochannels. <i>Journal of Membrane Science</i> , 2021, 628, 119267.	4.1	49
113	Effective control of membrane fouling by filamentous bacteria in a submerged membrane bioreactor. <i>Chemical Engineering Journal</i> , 2010, 158, 608-615.	6.6	47
114	Enhanced antifouling behaviours of polyvinylidene fluoride membrane modified through blending with nano-TiO ₂ /polyethylene glycol mixture. <i>Applied Surface Science</i> , 2015, 345, 418-427.	3.1	47
115	Antifouling performance and mechanisms in an electrochemical ceramic membrane reactor for wastewater treatment. <i>Journal of Membrane Science</i> , 2019, 570-571, 355-361.	4.1	47
116	Metagenomes reveal microbial structures, functional potentials, and biofouling-related genes in a membrane bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5109-5121.	1.7	46
117	A pilot-scale anaerobic membrane bioreactor under short hydraulic retention time for municipal wastewater treatment: performance and microbial community identification. <i>Journal of Water Reuse and Desalination</i> , 2018, 8, 58-67.	1.2	46
118	Fluorescent dissolved organic matter variations in a submerged membrane bioreactor under different sludge retention times. <i>Journal of Membrane Science</i> , 2010, 355, 151-157.	4.1	45
119	Impact of Temperature Seasonal Change on Sludge Characteristics and Membrane Fouling in a Submerged Membrane Bioreactor. <i>Separation Science and Technology</i> , 2010, 45, 920-927.	1.3	45
120	Sludge reduction and process performance in a submerged membrane bioreactor with aquatic worms. <i>Chemical Engineering Journal</i> , 2011, 172, 929-935.	6.6	44
121	Hydrophilic/underwater superoleophobic graphene oxide membrane intercalated by TiO ₂ nanotubes for oil/water separation. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	44
122	Heteroatom-doped porous carbon nanoparticle-decorated carbon cloth (HPCN/CC) as efficient anode electrode for microbial fuel cells (MFCs). <i>Journal of Cleaner Production</i> , 2022, 336, 130374.	4.6	44
123	Nano-TiO ₂ membrane adsorption reactor (MAR) for virus removal in drinking water. <i>Chemical Engineering Journal</i> , 2013, 230, 180-187.	6.6	43
124	Antifouling behaviours of PVDF/nano-TiO ₂ composite membranes revealed by surface energetics and quartz crystal microbalance monitoring. <i>RSC Advances</i> , 2014, 4, 43590-43598.	1.7	43
125	Polyvinylidene fluoride membrane blended with quaternary ammonium compound for enhancing anti-biofouling properties: Effects of dosage. <i>Journal of Membrane Science</i> , 2016, 520, 66-75.	4.1	43
126	Removal of Cu(II) ions from contaminated waters using a conducting microfiltration membrane. <i>Journal of Hazardous Materials</i> , 2017, 339, 182-190.	6.5	43

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127	Impacts of quaternary ammonium compounds on membrane bioreactor performance: Acute and chronic responses of microorganisms. <i>Water Research</i> , 2018, 134, 153-161.	5.3	43
128	In-situ modification of PVDF membrane during phase-inversion process using carbon nanosphere sol as coagulation bath for enhancing anti-fouling ability. <i>Journal of Membrane Science</i> , 2017, 526, 272-280.	4.1	42
129	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. <i>Environmental Science and Technology Letters</i> , 2022, 9, 247-257.	3.9	42
130	Enhancing rejection performance of tetracycline resistance genes by a TiO ₂ /AgNPs-modified nanofiber forward osmosis membrane. <i>Chemical Engineering Journal</i> , 2020, 382, 123052.	6.6	40
131	Rapid decontamination of tetracycline hydrolysis product using electrochemical CNT filter: Mechanism, impacting factors and pathways. <i>Chemosphere</i> , 2020, 244, 125525.	4.2	40
132	Direct Electron Transfer Coordinated by Oxygen Vacancies Boosts Selective Nitrate Reduction to N ₂ on a Co ²⁺ /CuO Electroactive Filter. <i>Environmental Science & Technology</i> , 2022, 56, 8673-8681.	4.6	39
133	Simultaneous oxidation and sorption of highly toxic Sb(III) using a dual-functional electroactive filter. <i>Environmental Pollution</i> , 2019, 251, 72-80.	3.7	38
134	Effects of humic matter on the anaerobic digestion of sewage sludge: New insights from sludge structure. <i>Chemosphere</i> , 2020, 243, 125421.	4.2	38
135	Surface Modulation and Chromium Complexation: All-in-One Solution for the Cr(VI) Sequestration with Bifunctional Molecules. <i>Environmental Science & Technology</i> , 2020, 54, 8373-8379.	4.6	38
136	Preferential removal of 2,4-dichlorophenoxyacetic acid from contaminated waters using an electrocatalytic ceramic membrane filtration system: Mechanisms and implications. <i>Chemical Engineering Journal</i> , 2020, 387, 124132.	6.6	38
137	Application of flat-sheet membrane to thickening and digestion of waste activated sludge (WAS). <i>Journal of Hazardous Materials</i> , 2008, 154, 535-542.	6.5	37
138	Enhanced waste activated sludge digestion using a submerged anaerobic dynamic membrane bioreactor: performance, sludge characteristics and microbial community. <i>Scientific Reports</i> , 2016, 6, 20111.	1.6	37
139	Influence of Solution Chemistry and Soft Protein Coronas on the Interactions of Silver Nanoparticles with Model Biological Membranes. <i>Environmental Science & Technology</i> , 2016, 50, 2301-2309.	4.6	37
140	One-step Sb(III) decontamination using a bifunctional photoelectrochemical filter. <i>Journal of Hazardous Materials</i> , 2020, 389, 121840.	6.5	37
141	Advances in metal(loid) oxyanion removal by zerovalent iron: Kinetics, pathways, and mechanisms. <i>Chemosphere</i> , 2021, 280, 130766.	4.2	37
142	Membrane biofouling control using polyvinylidene fluoride membrane blended with quaternary ammonium compound assembled on carbon material. <i>Journal of Membrane Science</i> , 2017, 539, 229-237.	4.1	36
143	Comparison of antifouling behaviours of modified PVDF membranes by TiO ₂ sols with different nanoparticle size: Implications of casting solution stability. <i>Journal of Membrane Science</i> , 2017, 525, 378-386.	4.1	36
144	Three-dimensionally ordered macroporous CoCr ₂ O ₄ -supported Au ⁰ /Pd alloy nanoparticles: Highly active catalysts for methane combustion. <i>Catalysis Today</i> , 2017, 281, 467-476.	2.2	36

#	ARTICLE	IF	CITATIONS
145	Recent advances in nature-inspired antifouling membranes for water purification. <i>Chemical Engineering Journal</i> , 2022, 432, 134425.	6.6	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. <i>Bioresource Technology</i> , 2019, 291, 121920.	4.8	35
147	Effect of support nature on catalytic activity of the bimetallic RuCo nanoparticles for the oxidative removal of 1,2-dichloroethane. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119804.	10.8	35
148	Recent Advances in Microbial Fuel Cells Integrated with Sludge Treatment. <i>Chemical Engineering and Technology</i> , 2012, 35, 1733-1743.	0.9	34
149	Long-term operation of an MBR in the presence of zinc oxide nanoparticles reveals no significant adverse effects on its performance. <i>Journal of Membrane Science</i> , 2014, 471, 258-264.	4.1	34
150	Relationship between polymers compatibility and casting solution stability in fabricating PVDF/PVA membranes. <i>Journal of Membrane Science</i> , 2017, 537, 263-271.	4.1	34
151	Environmentally friendly room temperature synthesis of hierarchical porous $\text{Ni}(\text{OH})_2$ nanosheets for supercapacitor and catalysis applications. <i>Green Chemistry</i> , 2019, 21, 5960-5968.	4.6	34
152	Removal of p-chloroaniline from polluted waters using a cathodic electrochemical ceramic membrane reactor. <i>Separation and Purification Technology</i> , 2019, 211, 753-763.	3.9	33
153	Antibiofouling performance and mechanisms of a modified polyvinylidene fluoride membrane in an MBR for wastewater treatment: Role of silver@silica nanopollens. <i>Water Research</i> , 2020, 176, 115749.	5.3	33
154	Zr6O8-porphyrinic MOFs as promising catalysts for the boosting photocatalytic degradation of contaminants in high salinity wastewater. <i>Chemical Engineering Journal</i> , 2022, 440, 135883.	6.6	33
155	Boosting Cr(VI) detoxification and sequestration efficiency with carbon nanotube electrochemical filter functionalized with nanoscale polyaniline: Performance and mechanism. <i>Science of the Total Environment</i> , 2019, 695, 133926.	3.9	32
156	Pd^{II} - O_2 interaction and singlet oxygen formation in a novel reactive electrochemical membrane for ultrafast sulfamethoxazole oxidation. <i>Chemical Engineering Journal</i> , 2022, 428, 131194.	6.6	32
157	Analysis of Nitrification Efficiency and Microbial Community in a Membrane Bioreactor Fed with Low COD/N-Ratio Wastewater. <i>PLoS ONE</i> , 2013, 8, e63059.	1.1	32
158	Membrane fouling properties under different filtration modes in a submerged membrane bioreactor. <i>Process Biochemistry</i> , 2010, 45, 1699-1706.	1.8	31
159	Desalination: From Ancient to Present and Future. <i>Water (Switzerland)</i> , 2021, 13, 2222.	1.2	31
160	Evaluating of the performance of natural mineral vermiculite modified PVDF membrane for oil/water separation by membrane fouling model and XDLVO theory. <i>Journal of Membrane Science</i> , 2022, 641, 119886.	4.1	31
161	Catalytic performance of cobalt oxide-supported gold-palladium nanocatalysts for the removal of toluene and o-xylene. <i>Chinese Journal of Catalysis</i> , 2017, 38, 207-216.	6.9	30
162	Reinvestigation of membrane cleaning mechanisms using NaOCl: Role of reagent diffusion. <i>Journal of Membrane Science</i> , 2018, 550, 278-285.	4.1	30

#	ARTICLE	IF	CITATIONS
163	Identification of Microbial Communities in Open and Closed Circuit Bioelectrochemical MBRs by High-Throughput 454 Pyrosequencing. PLoS ONE, 2014, 9, e93842.	1.1	30
164	Aramid Nanofiber Membranes Reinforced by MXene Nanosheets for Recovery of Dyes from Textile Wastewater. ACS Applied Nano Materials, 2021, 4, 6328-6336.	2.4	29
165	Tuning the primary selective nanochannels of MOF thin-film nanocomposite nanofiltration membranes for efficient removal of hydrophobic endocrine disrupting compounds. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	29
166	Influences of fractal dimension of membrane surface on interfacial interactions related to membrane fouling in a membrane bioreactor. Journal of Colloid and Interface Science, 2017, 500, 79-87.	5.0	28
167	Magnetic hollow poly(cyclotriphosphazene-co-4,4'-sulfonyldiphenol)-Fe ₃ O ₄ hybrid nanocapsules for adsorbing Safranin T and catalytic oxidation of 3,3',5,5'-tetramethylbenzidine. Journal of Colloid and Interface Science, 2019, 556, 278-291.	5.0	28
168	Highly Active and Stable Palladium Catalysts on Novel Ceria-Alumina Supports for Efficient Oxidation of Carbon Monoxide and Hydrocarbons. Environmental Science & Technology, 2021, 55, 7624-7633.	4.6	28
169	Robust dual-layer Janus membranes with the incorporation of polyphenol/Fe ³⁺ complex for enhanced anti-oil fouling performance in membrane distillation. Desalination, 2021, 515, 115184.	4.0	28
170	Tuning of nanofiltration membrane by multifunctionalized nanovesicles to enable an ultrahigh dye/salt separation at high salinity. Journal of Membrane Science, 2022, 644, 120094.	4.1	28
171	China's Wastewater Treatment Goals. Science, 2012, 338, 604-604.	6.0	27
172	Effects of biopolymer discharge from MBR mixture on sludge characteristics and membrane fouling. Chemical Engineering Journal, 2012, 193-194, 77-87.	6.6	27
173	Temporal variations of cathode performance in air-cathode single-chamber microbial fuel cells with different separators. Journal of Power Sources, 2014, 272, 24-33.	4.0	27
174	Enzyme-assisted mechanical production of microfibrillated cellulose from Northern Bleached Softwood Kraft pulp. Cellulose, 2017, 24, 3929-3942.	2.4	27
175	An electrochemical membrane biofilm reactor for removing sulfonamides from wastewater and suppressing antibiotic resistance development: Performance and mechanisms. Journal of Hazardous Materials, 2021, 404, 124198.	6.5	27
176	Mechanistic insights into chemical conditioning by polyacrylamide with different charge densities and its impacts on sludge dewaterability. Chemical Engineering Journal, 2021, 410, 128425.	6.6	27
177	An anaerobic dynamic membrane bioreactor for enhancing sludge digestion: Impact of solids retention time on digestion efficacy. Bioresource Technology, 2021, 329, 124864.	4.8	27
178	Recent advances in electrocatalytic membrane for the removal of micropollutants from water and wastewater. IScience, 2022, 25, 104342.	1.9	27
179	Membrane fouling mechanisms in the process of using flat-sheet membrane for simultaneous thickening and digestion of activated sludge. Separation and Purification Technology, 2008, 63, 676-683.	3.9	26
180	Simulation and performance evaluation of the anoxic/anaerobic/aerobic process for biological nutrient removal. Korean Journal of Chemical Engineering, 2011, 28, 1233-1240.	1.2	26

#	ARTICLE	IF	CITATIONS
181	Modeling of multimode anaerobic/anoxic/aerobic wastewater treatment process at low temperature for process optimization. <i>Chemical Engineering Journal</i> , 2015, 281, 644-650.	6.6	26
182	Efficacy of a novel electrochemical membrane-aerated biofilm reactor for removal of antibiotics from micro-polluted surface water and suppression of antibiotic resistance genes. <i>Bioresource Technology</i> , 2021, 338, 125527.	4.8	26
183	Efficient removal of micropollutants from low-conductance surface water using an electrochemical Janus ceramic membrane filtration system. <i>Water Research</i> , 2022, 220, 118627.	5.3	26
184	Insights into the effect of preparation variables on morphology and performance of polyacrylonitrile membranes using Plackett-Burman design experiments. <i>Chemical Engineering Journal</i> , 2012, 193-194, 50-58.	6.6	25
185	Start-Up of an Anaerobic Dynamic Membrane Digester for Waste Activated Sludge Digestion: Temporal Variations in Microbial Communities. <i>PLoS ONE</i> , 2014, 9, e93710.	1.1	25
186	CFD simulations of fiber-fiber interaction in a hollow fiber membrane bundle: Fiber distance and position matters. <i>Separation and Purification Technology</i> , 2019, 209, 707-713.	3.9	25
187	Ultra-fast detoxification of Sb(III) using a flow-through TiO ₂ -nanotubes-array-mesh based photoelectrochemical system. <i>Chemical Engineering Journal</i> , 2020, 387, 124155.	6.6	25
188	A Bioelectrochemically-Assisted Membrane Bioreactor for Simultaneous Wastewater Treatment and Energy Production. <i>Chemical Engineering and Technology</i> , 2013, 36, 2044-2050.	0.9	24
189	Enhanced power production from waste activated sludge in rotating-cathode microbial fuel cells: The effects of aquatic worm predation. <i>Chemical Engineering Journal</i> , 2014, 248, 415-421.	6.6	24
190	Study on enhancing sludge methanogenesis by adding acetylene black and effect on the characteristics & microbial community of anaerobic granular sludge. <i>RSC Advances</i> , 2019, 9, 23086-23095.	1.7	24
191	Highly Selective Recovery of Phosphorus from Wastewater via Capacitive Deionization Enabled by Ferrocene-polyaniline-Functionalized Carbon Nanotube Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31962-31972.	4.0	24
192	Recent advances in membrane fouling caused by extracellular polymeric substances: a mini-review. <i>Desalination and Water Treatment</i> , 2013, 51, 5121-5131.	1.0	23
193	Use of Extracellular Polymer Substance as an Additive to Improve Biogas Yield and Digestion Performance. <i>Energy & Fuels</i> , 2019, 33, 12628-12636.	2.5	23
194	Biological nutrient removal in the anaerobic side-stream reactor coupled membrane bioreactors for sludge reduction. <i>Bioresource Technology</i> , 2020, 295, 122241.	4.8	23
195	Omniphobic membrane via bioinspired silicification for the treatment of RO concentrate by membrane distillation. <i>Journal of Membrane Science</i> , 2022, 647, 120267.	4.1	23
196	Preparation and characterization of poly (vinylidene fluoride)/TiO ₂ hybrid membranes. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 492-502.	3.3	22
197	Functional Surface Coating on Cellulosic Flexible Substrates with Improved Water-Resistant and Antimicrobial Properties by Use of ZnO Nanoparticles. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	1.5	22
198	Evaluating influence of filling fraction of carriers packed in anaerobic side-stream reactors on membrane fouling and microbial community of the coupled membrane bioreactors. <i>Journal of Hazardous Materials</i> , 2020, 388, 122030.	6.5	22

#	ARTICLE	IF	CITATIONS
199	Degradation of p-chloroaniline using an electrochemical ceramic microfiltration membrane with built-in electrodes. <i>Electrochimica Acta</i> , 2018, 292, 655-666.	2.6	21
200	Magnetic poly(cyclotriphosphazene-co-4,4- SO_2 -sulfonyldiphenol) nanotubes modified with glacial acetic acid for removing methylene blue: Adsorption performance and mechanism. <i>European Polymer Journal</i> , 2019, 120, 109198.	2.6	21
201	Ultra-rapid detoxification of Sb(III) using a flow-through electro-fenton system. <i>Chemosphere</i> , 2020, 245, 125604.	4.2	21
202	Efficacy of electrochemical membrane bioreactor for virus removal from wastewater: Performance and mechanisms. <i>Bioresource Technology</i> , 2021, 330, 124946.	4.8	21
203	Modification of ultrafiltration membrane with antibacterial agent intercalated layered nanosheets: Toward superior antibiofouling performance for water treatment. <i>Water Research</i> , 2022, 219, 118539.	5.3	21
204	Identification of sustainable flux in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2009, 162, 1397-1403.	6.5	20
205	Electrogenesis reduces the combustion efficiency of sewage sludge. <i>Applied Energy</i> , 2014, 114, 283-289.	5.1	20
206	Management of concentrate and waste streams for membrane-based algal separation in water treatment: A review. <i>Water Research</i> , 2020, 183, 115969.	5.3	20
207	Calcium ions affect sludge digestion performance via changing extracellular polymeric substances in anaerobic bioreactor. <i>Biomass and Bioenergy</i> , 2020, 137, 105548.	2.9	20
208	Recent advances in membrane biofilm reactor for micropollutants removal: Fundamentals, performance and microbial communities. <i>Bioresource Technology</i> , 2022, 343, 126139.	4.8	20
209	Influence of Surface Functional Groups on Deposition and Release of TiO_2 Nanoparticles. <i>Environmental Science & Technology</i> , 2017, 51, 7467-7475.	4.6	19
210	Microfiltration membranes modified by silver-decorated biomimetic silica nanopollens for mitigating biofouling: Synergetic effects of nanopollens and silver nanoparticles. <i>Journal of Membrane Science</i> , 2020, 597, 117773.	4.1	19
211	Repurposing hydrolysis acidification tank in municipal wastewater treatment plants for sludge reduction and biological nutrient removal. <i>Chemical Engineering Journal</i> , 2020, 396, 125327.	6.6	19
212	Floc destruction and its impact on dewatering properties in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. <i>Bioresource Technology</i> , 2009, 100, 1937-1942.	4.8	18
213	Occurrence and fate of potential pathogenic bacteria as revealed by pyrosequencing in a full-scale membrane bioreactor treating restaurant wastewater. <i>RSC Advances</i> , 2015, 5, 24469-24478.	1.7	18
214	In situ extracting organic-bound calcium: A novel approach to mitigating organic fouling in forward osmosis treating wastewater via gradient diffusion thin-films. <i>Water Research</i> , 2019, 156, 102-109.	5.3	18
215	Fouling is the beginning: upcycling biopolymer-fouled substrates for fabricating high-permeance thin-film composite polyamide membranes. <i>Green Chemistry</i> , 2021, 23, 1013-1025.	4.6	18
216	One-step phosphite removal by an electroactive CNT filter functionalized with $\text{TiO}_2/\text{CeO}_x$ nanocomposites. <i>Science of the Total Environment</i> , 2020, 710, 135514.	3.9	17

#	ARTICLE	IF	CITATIONS
217	Role of EPS in membrane fouling of a submerged anaerobic-anoxic-oxic (A-A-O) membrane bioreactor for municipal wastewater treatment. <i>Desalination and Water Treatment</i> , 2011, 34, 88-93.	1.0	16
218	Understanding mechanisms of sludge in situ reduction in anaerobic side-stream reactor coupled membrane bioreactors packed with carriers at different filling fractions. <i>Bioresource Technology</i> , 2020, 316, 123925.	4.8	16
219	State-of-the-art management technologies of dissolved methane in anaerobically-treated low-strength wastewaters: A review. <i>Water Research</i> , 2021, 200, 117269.	5.3	16
220	Emerging Challenges and Opportunities for Electrified Membranes to Enhance Water Treatment. <i>Environmental Science & Technology</i> , 2022, 56, 3832-3835.	4.6	16
221	In situ molten salt derived iron oxide supported platinum catalyst with high catalytic performance for o-xylene elimination. <i>Catalysis Today</i> , 2020, 351, 30-36.	2.2	15
222	Cleaning—Healing—Interfacial Polymerization Strategy for Upcycling Real End-of-Life Polyvinylidene Fluoride Microfiltration Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10352-10360.	3.2	15
223	Study on the mechanism of inhibiting the calcification of anaerobic granular sludge induced by the addition of trace signal molecule (3O-C6-HSL). <i>Bioresource Technology</i> , 2022, 344, 126232.	4.8	15
224	Effective and Selective Removal of Phosphate from Wastewater Using Guanidinium-Functionalized Polyelectrolyte-Modified Electrodes in Capacitive Deionization. <i>ACS ES&T Water</i> , 2022, 2, 237-246.	2.3	15
225	Dynamic Membrane Formation in Anaerobic Dynamic Membrane Bioreactors: Role of Extracellular Polymeric Substances. <i>PLoS ONE</i> , 2015, 10, e0139703.	1.1	14
226	Simulation and assessment of sludge concentration and rheology in the process of waste activated sludge treatment. <i>Journal of Environmental Sciences</i> , 2009, 21, 1639-1645.	3.2	13
227	3DOM LaMnAl ₁₁ O ₁₉ -supported AuPd alloy nanoparticles: Highly active catalysts for methane combustion in a continuous-flow microreactor. <i>Catalysis Today</i> , 2018, 308, 71-80.	2.2	13
228	Fabrication of High-Performance Thin-Film Composite Nanofiltration Membrane by Dynamic Calcium-Carboxyl Intra-Bridging during Post-Treatment. <i>Membranes</i> , 2020, 10, 137.	1.4	13
229	Electrochemical Membrane Bioreactors for Sustainable Wastewater Treatment: Principles and Challenges. <i>Current Environmental Engineering</i> , 2015, 2, 38-49.	0.6	12
230	Effective Removal of Sulfanilic Acid From Water Using a Low-Pressure Electrochemical RuO ₂ -TiO ₂ @Ti/PVDF Composite Membrane. <i>Frontiers in Chemistry</i> , 2018, 6, 395.	1.8	12
231	Modification of polyvinylidene fluoride membrane by quaternary ammonium compounds loaded on silica nanopollens for mitigating biofouling. <i>Journal of Membrane Science</i> , 2020, 597, 117679.	4.1	12
232	Rapid and selective electrochemical transformation of ammonia to N ₂ by substoichiometric TiO ₂ -based electrochemical system. <i>RSC Advances</i> , 2020, 10, 1219-1225.	1.7	12
233	In situ growth of nano-ZnO/GQDs on cellulose paper for dual repelling function against water and bacteria. <i>Materials Letters</i> , 2021, 283, 128838.	1.3	12
234	Evaluation of nutrient removal performance and resource recovery potential of anaerobic/anoxic/aerobic membrane bioreactor with limited aeration. <i>Bioresource Technology</i> , 2021, 340, 125728.	4.8	12

#	ARTICLE	IF	CITATIONS
235	Temporal variations of membrane foulants in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. <i>Bioresource Technology</i> , 2011, 102, 6863-6869.	4.8	11
236	Development of an Electrochemical Ceramic Membrane Bioreactor for the Removal of PPCPs from Wastewater. <i>Water (Switzerland)</i> , 2020, 12, 1838.	1.2	11
237	COD fractionation and parameter estimation for combined sewers by respirometric tests. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1596-1601.	1.6	10
238	Aqueous nitrate removal by D417 resin: thermodynamic, kinetic and response surface methodology studies. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 856-867.	0.8	10
239	Bifunctional nanoscale magnetic chains with high saturation magnetization and catalytic activity. <i>Journal of Colloid and Interface Science</i> , 2018, 525, 152-160.	5.0	10
240	Microbial responses to transient shock loads of quaternary ammonium compounds with different length of alkyl chain in a membrane bioreactor. <i>AMB Express</i> , 2018, 8, 118.	1.4	10
241	Simultaneous solid-liquid separation and wastewater disinfection using an electrochemical dynamic membrane filtration system. <i>Environmental Research</i> , 2020, 180, 108861.	3.7	10
242	Mitigation of Membrane Fouling Using an Electroactive Polyether Sulfone Membrane. <i>Membranes</i> , 2020, 10, 21.	1.4	10
243	Sludge Derived Carbon Modified Anode in Microbial Fuel Cell for Performance Improvement and Microbial Community Dynamics. <i>Membranes</i> , 2022, 12, 120.	1.4	10
244	Bioelectricity generation through microbial fuel cell using organic matters recovered from municipal wastewater. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 290-297.	1.3	9
245	Insights into iron induced fouling of ion-exchange membranes revealed by a quartz crystal microbalance with dissipation monitoring. <i>RSC Advances</i> , 2017, 7, 36555-36561.	1.7	9
246	Uniqueness of biofouling in forward osmosis systems: Mechanisms and control. <i>Critical Reviews in Environmental Science and Technology</i> , 2018, 48, 1031-1066.	6.6	9
247	Characterization of antibiofouling behaviors of PVDF membrane modified by quaternary ammonium compound combined use of QCM-D, FCM, and CLSM. <i>Journal of Water Reuse and Desalination</i> , 2019, 9, 18-30.	1.2	9
248	Sulfate removal by Mg-Al layered double hydroxide precipitates: Mechanism, settleability, techno-economic analysis and recycling as demulsifier. <i>Journal of Cleaner Production</i> , 2020, 242, 118503.	4.6	9
249	Nanoparticle fouling and its combination with organic fouling during forward osmosis process for silver nanoparticles removal from simulated wastewater. <i>Scientific Reports</i> , 2016, 6, 25859.	1.6	8
250	Formation and removal of dissolved organic nitrogen (DON) in membrane bioreactor and conventional activated sludge processes. <i>Environmental Science and Pollution Research</i> , 2015, 22, 12633-12643.	2.7	7
251	Effects of Cellulosic Base Sheet Pore Structure and Soybean Oil-Based Polymer Layer on Cellulosic Packaging Performance as a Barrier for Water and Water Vapor. <i>BioResources</i> , 2016, 11, .	0.5	7
252	Biofouling suppresses effluent toxicity in an electrochemical filtration system for remediation of sulfanilic acid-contaminated water. <i>Water Research</i> , 2022, 219, 118545.	5.3	7

#	ARTICLE	IF	CITATIONS
253	Mechanisms of phosphorus removal from wastewater by ion exchange resin. , 0, 79, 347-355.		6
254	Effective factors for the performance of a co-generation system for bioethanol and electricity production via microbial fuel cell technology. <i>Biochemical Engineering Journal</i> , 2022, 178, 108309.	1.8	6
255	Effects of different <i>N</i> -acyl-serine lactone signaling molecules on the performance of anaerobic granular sludge. <i>RSC Advances</i> , 2022, 12, 5439-5446.	1.7	6
256	Mechanistic insights into CO ₂ pressure regulating microbial competition in a hydrogen-based membrane biofilm reactor for denitrification. <i>Chemosphere</i> , 2022, 303, 134875.	4.2	5
257	Humic Acid Modified Selective Nanofiltration Membrane for Efficient Separation of PFASs and Mineral Salts. <i>ACS ES&T Water</i> , 2022, 2, 1152-1160.	2.3	5
258	A hybrid membrane process for simultaneous thickening and digestion of waste activated sludge. <i>Frontiers of Environmental Science and Engineering in China</i> , 2010, 4, 272-279.	0.8	4
259	Chemical Cleaning of Membranes in a Long-Term Operated Full-Scale MBR for Restaurant Wastewater Treatment. <i>Separation Science and Technology</i> , 2011, 46, 2481-2488.	1.3	4
260	Effects of Adhesive Aging on the Characteristics of Stickies and Their Removal during Paper Recycling. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9698-9704.	1.8	4
261	Effect of Worm Predation on Changes in Waste Activated Sludge Properties. <i>Water Environment Research</i> , 2016, 88, 387-393.	1.3	4
262	Membrane Fouling Mechanisms: Membrane Characteristics and Mixed Liquor Properties. <i>Environmental Engineering Science</i> , 2018, 35, 751-759.	0.8	4
263	Facile synthesis of cobalt Disulfide/Carbon nanotube composite as High-performance supercapacitors electrode. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115570.	1.9	4
264	Membrane fouling properties in a submerged membrane bioreactor for saline wastewater treatment at high ammonium content. <i>Desalination and Water Treatment</i> , 2015, 53, 1735-1743.	1.0	3
265	Performance and microbial protein expression during anaerobic treatment of alkali-decrement wastewater using a strengthened circulation anaerobic reactor. <i>Bioresource Technology</i> , 2019, 273, 40-48.	4.8	3
266	Fabrication of anti-algae coatings by using quaternary ammonium compounds for wastewater treatment facilities: Anti-algae performance and mechanisms. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 587, 124309.	2.3	3
267	Stimulatory effects on bacteria induced by chemical cleaning cause severe biofouling of membranes. <i>Journal of Water Reuse and Desalination</i> , 2020, 10, 82-94.	1.2	3
268	Electrocoagulation pretreatment reduced the synergistic inhibition of anaerobic granular sludge by micro stickies and Ca ²⁺ and delayed the calcification of granular sludge. <i>Industrial Crops and Products</i> , 2022, 178, 114584.	2.5	3
269	Parameter estimation protocol for secondary clarifier models based on sludge volume index and operational parameters. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011, 6, 266-273.	0.8	2
270	Analysis of the Differences in the Microbial Community and Structure of Calcified ONP Granular Sludge and Bagasse Granular Sludge. <i>BioResources</i> , 2018, 13, .	0.5	2

#	ARTICLE	IF	CITATIONS
271	Effects of graphene derivatives on polyvinylidene fluoride membrane modification evaluated with XDLVO theory and quartz crystal microbalance with dissipation. <i>Water Environment Research</i> , 2021, 93, 360-369.	1.3	2
272	Application of Anaerobic Membrane Bioreactor to the Treatment of Low-Strength Municipal Wastewater. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings]</i> International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
273	Dissolved organic matters transformation and sludge characteristics in zeolite-enhanced contact-adsorption regeneration-stabilization process. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 396-405.	0.8	1
274	Techniques for understanding mechanisms underlying membrane fouling. , 2020, , 81-102.		1
275	Fluorescent N-functionalized carbon nanodots from carboxymethylcellulose for sensing of high-valence metal ions and cell imaging. <i>RSC Advances</i> , 2021, 11, 34898-34907.	1.7	1
276	Analysis of dissolved and colloidal substances in old corrugated containers™ whitewater and dissolved substances™ impact on colloidal substances™ stability. <i>BioResources</i> , 2020, 15, 6668-6679.	0.5	1
277	Electrochemical membrane materials and modules. , 2022, , 81-110.		1
278	Efficient treatment of landfill leachate using an electrochemical ceramic membrane filtration system: Chlorine-mediated oxidation. <i>Chemical Engineering Journal</i> , 2022, 450, 138102.	6.6	1
279	The application of membrane bioreactor technology to the treatment of wastewater from a multifunctional supermarket. <i>Environmental Progress and Sustainable Energy</i> , 2010, 29, 52-59.	1.3	0
280	A Dual-Functional Electroactive Filter Towards Simultaneously Sb(III) Oxidation and Sequestration. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	0
281	Bioelectrochemical MBR. , 2014, , 1-2.		0
282	Membrane Bioreactors for Treatment of Tannery Effluents. , 2015, , 1-2.		0
283	Ultrafiltration Membrane Bioreactor. , 2015, , 1-2.		0
284	Membrane Biotechnology. , 2015, , 1-3.		0
285	Ultrafiltration Membrane Bioreactor. , 2016, , 1950-1951.		0
286	Introduction to electrochemical membrane technology: current status and recent developments. , 2022, , 1-42.		0
287	Intentional Fouling Enabled In Situ Healing of Compromised Reverse Osmosis Membranes for Desalination and Water Purification. <i>ACS ES&T Engineering</i> , 2022, 2, 1964-1973.	3.7	0