

Zhiwei Wang

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275
papers

10,160
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86
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293
ext. papers

12,649
ext. citations

9.2
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6.9
L-index

#	Paper	IF	Citations
275	Membrane cleaning in membrane bioreactors: A review. <i>Journal of Membrane Science</i> , 2014 , 468, 276-303.	3.6	494
274	Extracellular polymeric substances (EPS) properties and their effects on membrane fouling in a submerged membrane bioreactor. <i>Water Research</i> , 2009 , 43, 2504-12	12.5	434
273	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, 1533-40	12.5	341
272	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	9.6	279
271	Correlating microbial community structure and composition with aeration intensity in submerged membrane bioreactors by 454 high-throughput pyrosequencing. <i>Water Research</i> , 2013 , 47, 859-69	12.5	184
270	An anaerobic dynamic membrane bioreactor (AnDMBR) for landfill leachate treatment: performance and microbial community identification. <i>Bioresour. Technol.</i> , 2014 , 161, 29-39	11	170
269	Ultrahigh energy density of a N, O codoped carbon nanosphere based all-solid-state symmetric supercapacitor. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1177-1186	13	140
268	Cooking carbon with protic salt: Nitrogen and sulfur self-doped porous carbon nanosheets for supercapacitors. <i>Chemical Engineering Journal</i> , 2018 , 347, 233-242	14.7	134
267	Encapsulation of NiO nanoparticles in mesoporous carbon nanospheres for advanced energy storage. <i>Chemical Engineering Journal</i> , 2017 , 308, 240-247	14.7	129
266	Formation of dynamic membrane in an anaerobic membrane bioreactor for municipal wastewater treatment. <i>Chemical Engineering Journal</i> , 2010 , 165, 175-183	14.7	125
265	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	14.7	121
264	Synergistic design of a N, 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	13	110
263	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	8.3	109
262	Relationship between sludge characteristics and membrane flux determination in submerged membrane bioreactors. <i>Journal of Membrane Science</i> , 2006 , 284, 87-94	9.6	109
261	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2016 , 205, 132-141	6.7	109
260	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	13	106
259	Research and applications of membrane bioreactors in China: Progress and prospect. <i>Separation and Purification Technology</i> , 2008 , 62, 249-263	8.3	102

258	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	6.7	94
257	Assessment of SMP fouling by foulant-membrane interaction energy analysis. <i>Journal of Membrane Science</i> , 2013 , 446, 154-163	9.6	88
256	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	10.3	87
255	Performances of anaerobic and aerobic membrane bioreactors for the treatment of synthetic textile wastewater. <i>Bioresource Technology</i> , 2015 , 192, 564-73	11	86
254	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	9.6	86
253	Effect of hypochlorite cleaning on the physicochemical characteristics of polyvinylidene fluoride membranes. <i>Chemical Engineering Journal</i> , 2010 , 162, 1050-1056	14.7	86
252	Long-term investigation of a novel electrochemical membrane bioreactor for low-strength municipal wastewater treatment. <i>Water Research</i> , 2015 , 78, 98-110	12.5	84
251	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	10.3	83
250	Deep-eutectic-solvent synthesis of N/O self-doped hollow carbon nanorods for efficient energy storage. <i>Chemical Communications</i> , 2019 , 55, 11219-11222	5.8	82
249	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	12.5	81
248	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	4.8	81
247	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, 50-8	11	80
246	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). <i>Environmental Science & Technology</i> , 2019 , 53, 1527-1535	10.3	78
245	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	4.8	77
244	Role of dissolved organic matters (DOM) in membrane fouling of membrane bioreactors for municipal wastewater treatment. <i>Journal of Hazardous Materials</i> , 2010 , 178, 377-84	12.8	77
243	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	4.9	75
242	Sulfur-based autotrophic denitrification of drinking water using a membrane bioreactor. <i>Chemical Engineering Journal</i> , 2015 , 268, 180-186	14.7	75
241	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	14.7	74

240	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	2.5	72
239	Perspective on enhancing the anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121847	12.8	72
238	Development of an Electrochemical Ceramic Membrane Filtration System for Efficient Contaminant Removal from Waters. <i>Environmental Science & Technology</i> , 2018 , 52, 4117-4126	10.3	71
237	Applications of membrane bioreactors for water reclamation: Micropollutant removal, mechanisms and perspectives. <i>Bioresource Technology</i> , 2018 , 269, 532-543	11	71
236	Cost-effective Chlorella biomass production from dilute wastewater using a novel photosynthetic microbial fuel cell (PMFC). <i>Water Research</i> , 2017 , 108, 356-364	12.5	69
235	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	11.3	67
234	Antibiofouling Polyvinylidene Fluoride Membrane Modified by Quaternary Ammonium Compound: Direct Contact-Killing versus Induced Indirect Contact-Killing. <i>Environmental Science & Technology</i> , 2016 , 50, 5086-93	10.3	66
233	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	9.6	66
232	Sludge rheological and physiological characteristics in a pilot-scale submerged membrane bioreactor. <i>Desalination</i> , 2007 , 212, 152-164	10.3	65
231	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, 11436-45	5.1	61
230	A pilot-scale forward osmosis membrane system for concentrating low-strength municipal wastewater: performance and implications. <i>Scientific Reports</i> , 2016 , 6, 21653	4.9	61
229	Recent advances in membrane bio-technologies for sludge reduction and treatment. <i>Biotechnology Advances</i> , 2013 , 31, 1187-99	17.8	60
228	Supported Atomically-Precise Gold Nanoclusters for Enhanced Flow-through Electro-Fenton. <i>Environmental Science & Technology</i> , 2020 , 54, 5913-5921	10.3	59
227	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	8.3	59
226	Carbon nanotube filter functionalized with iron oxychloride for flow-through electro-Fenton. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118204	21.8	59
225	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	12.8	57
224	Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. <i>Chinese Chemical Letters</i> , 2020 , 31, 1226-1230	8.1	56
223	Organic matter recovery from municipal wastewater by using dynamic membrane separation process. <i>Chemical Engineering Journal</i> , 2013 , 219, 190-199	14.7	56

222	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	14.7	56
221	A forward osmosis membrane system for the post-treatment of MBR-treated landfill leachate. <i>Journal of Membrane Science</i> , 2014 , 471, 192-200	9.6	55
220	Large-scale fabrication of N-doped porous carbon nanosheets for dye adsorption and supercapacitor applications. <i>Nanoscale</i> , 2019 , 11, 8785-8797	7.7	54
219	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	14.3	54
218	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	9.3	53
217	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	6.1	53
216	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	14.7	53
215	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	14.7	52
214	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	10	52
213	Backpulsing technology applied in MF and UF processes for membrane fouling mitigation: A review. <i>Journal of Membrane Science</i> , 2019 , 587, 117136	9.6	51
212	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	9.6	51
211	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	10.3	51
210	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	12.5	49
209	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	13	49
208	Contaminant Removal from Source Waters Using Cathodic Electrochemical Membrane Filtration: Mechanisms and Implications. <i>Environmental Science & Technology</i> , 2017 , 51, 2757-2765	10.3	48
207	Disintegration and acidification of MBR sludge under alkaline conditions. <i>Chemical Engineering Journal</i> , 2013 , 231, 206-213	14.7	48
206	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	5.6	47
205	Potential Foulants and Fouling Indicators in MBRs: A Critical Review. <i>Separation Science and Technology</i> , 2013 , 48, 22-50	2.5	47

204	Alkali-assisted membrane cleaning for fouling control of anaerobic ceramic membrane bioreactor. <i>Bioresource Technology</i> , 2017 , 240, 25-32	11	46
203	Recover energy from domestic wastewater using anaerobic membrane bioreactor: Operating parameters optimization and energy balance analysis. <i>Energy</i> , 2016 , 98, 146-154	7.9	46
202	Soluble microbial products in membrane bioreactors in the presence of ZnO nanoparticles. <i>Journal of Membrane Science</i> , 2014 , 451, 169-176	9.6	46
201	Effect of ultrasonic power density on extracting loosely bound and tightly bound extracellular polymeric substances. <i>Desalination</i> , 2013 , 329, 35-40	10.3	46
200	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	9.6	45
199	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	8.9	45
198	Characterization of membrane foulants in a full-scale membrane bioreactor for supermarket wastewater treatment. <i>Process Biochemistry</i> , 2011 , 46, 1001-1009	4.8	45
197	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	8.1	44
196	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	21.8	44
195	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	12.5	43
194	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	12.5	43
193	Fouling behaviours of two membranes in a submerged membrane bioreactor for municipal wastewater treatment. <i>Journal of Membrane Science</i> , 2011 , 382, 60-69	9.6	43
192	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	10.3	43
191	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	9.6	43
190	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	10.3	42
189	Sludge reduction and process performance in a submerged membrane bioreactor with aquatic worms. <i>Chemical Engineering Journal</i> , 2011 , 172, 929-935	14.7	42
188	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	9.6	42
187	Effective control of membrane fouling by filamentous bacteria in a submerged membrane bioreactor. <i>Chemical Engineering Journal</i> , 2010 , 158, 608-615	14.7	40

186	Study on zeolite enhanced contact-adsorption regeneration-stabilization process for nitrogen removal. <i>Journal of Hazardous Materials</i> , 2008 , 156, 317-26	12.8	40
185	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered TiCO MXene via Adsorption Coupled with Catalytic Reduction Mechanism. <i>Environmental Science & Technology</i> , 2020 , 54, 16212-16220	10.3	40
184	Integration of a Photo-Fenton Reaction and a Membrane Filtration using CS/PAN@FeOOH/g-C3N4Electrospun Nanofibers: Synthesis, Characterization, Self-cleaning Performance and Mechanism. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119519	21.8	40
183	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	8.6	39
182	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	6.7	38
181	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	3.7	38
180	Fabrication of core@shell structural Fe-FeO@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	12.8	37
179	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122258	12.8	36
178	Metagenomes reveal microbial structures, functional potentials, and biofouling-related genes in a membrane bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 5109-21	5.7	36
177	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	12.5	36
176	Thin-film nanocomposite membranes incorporated with water stable metal-organic framework CuBTri for mitigating biofouling. <i>Journal of Membrane Science</i> , 2019 , 582, 289-297	9.6	35
175	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	2.5	35
174	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	4.9	34
173	Nano-TiO ₂ membrane adsorption reactor (MAR) for virus removal in drinking water. <i>Chemical Engineering Journal</i> , 2013 , 230, 180-187	14.7	34
172	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	9.6	34
171	Development of a moving-bed electrochemical membrane bioreactor to enhance removal of low-concentration antibiotic from wastewater. <i>Bioresource Technology</i> , 2019 , 293, 122022	11	33
170	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	2.6	33
169	Removal of Cu(II) ions from contaminated waters using a conducting microfiltration membrane. <i>Journal of Hazardous Materials</i> , 2017 , 339, 182-190	12.8	33

168	Application of flat-sheet membrane to thickening and digestion of waste activated sludge (WAS). <i>Journal of Hazardous Materials</i> , 2008 , 154, 535-42	12.8	33
167	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	14.7	33
166	Degradation of sulfadiazine in drinking water by a cathodic electrochemical membrane filtration process. <i>Electrochimica Acta</i> , 2018 , 277, 77-87	6.7	31
165	Supported ultralow loading Pt catalysts with high H ₂ O-, CO ₂ -, and SO ₂ -resistance for acetone removal. <i>Applied Catalysis A: General</i> , 2019 , 579, 106-115	5.1	30
164	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	5.8	30
163	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, 2301-9	10.3	30
162	Recent Advances in Microbial Fuel Cells Integrated with Sludge Treatment. <i>Chemical Engineering and Technology</i> , 2012 , 35, 1733-1743	2	30
161	Antifouling performance and mechanisms in an electrochemical ceramic membrane reactor for wastewater treatment. <i>Journal of Membrane Science</i> , 2019 , 570-571, 355-361	9.6	30
160	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	9.6	29
159	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	9.6	29
158	Membrane fouling properties under different filtration modes in a submerged membrane bioreactor. <i>Process Biochemistry</i> , 2010 , 45, 1699-1706	4.8	29
157	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	9.6	28
156	Simultaneous oxidation and sorption of highly toxic Sb(III) using a dual-functional electroactive filter. <i>Environmental Pollution</i> , 2019 , 251, 72-80	9.3	28
155	Three-dimensionally ordered macroporous CoCr ₂ O ₄ -supported AuPd alloy nanoparticles: Highly active catalysts for methane combustion. <i>Catalysis Today</i> , 2017 , 281, 467-476	5.3	28
154	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	9.6	27
153	One-step Sb(III) decontamination using a bifunctional photoelectrochemical filter. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121840	12.8	27
152	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	10.3	27
151	Enhanced removal of pharmaceuticals and personal care products from real municipal wastewater using an electrochemical membrane bioreactor. <i>Bioresource Technology</i> , 2020 , 311, 123579	11	26

150	Impacts of quaternary ammonium compounds on membrane bioreactor performance: Acute and chronic responses of microorganisms. <i>Water Research</i> , 2018 , 134, 153-161	12.5	26
149	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	9.6	25
148	Effect of the Presence of Carbon in TiO Electrodes on Anodic Oxidation of Contaminants. <i>Environmental Science & Technology</i> , 2020 , 54, 5227-5236	10.3	25
147	Effects of biopolymer discharge from MBR mixture on sludge characteristics and membrane fouling. <i>Chemical Engineering Journal</i> , 2012 , 193-194, 77-87	14.7	25
146	Identification of microbial communities in open and closed circuit bioelectrochemical MBRs by high-throughput 454 pyrosequencing. <i>PLoS ONE</i> , 2014 , 9, e93842	3.7	25
145	Temporal variations of cathode performance in air-cathode single-chamber microbial fuel cells with different separators. <i>Journal of Power Sources</i> , 2014 , 272, 24-33	8.9	24
144	Tunable-quaternary (N, S, O, P)-doped porous carbon microspheres with ultramicropores for CO ₂ capture. <i>Applied Surface Science</i> , 2020 , 507, 145130	6.7	24
143	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	3.7	23
142	Membrane fouling mechanisms in the process of using flat-sheet membrane for simultaneous thickening and digestion of activated sludge. <i>Separation and Purification Technology</i> , 2008 , 63, 676-683	8.3	23
141	Recent advances in membrane fouling caused by extracellular polymeric substances: a mini-review. <i>Desalination and Water Treatment</i> , 2013 , 51, 5121-5131		22
140	Influences of fractal dimension of membrane surface on interfacial interactions related to membrane fouling in a membrane bioreactor. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 79-87	9.3	21
139	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	11.3	21
138	Reinvestigation of membrane cleaning mechanisms using NaOCl: Role of reagent diffusion. <i>Journal of Membrane Science</i> , 2018 , 550, 278-285	9.6	21
137	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	10.2	20
136	A Bioelectrochemically-Assisted Membrane Bioreactor for Simultaneous Wastewater Treatment and Energy Production. <i>Chemical Engineering and Technology</i> , 2013 , 36, 2044-2050	2	20
135	Simulation and performance evaluation of the anoxic/anaerobic/aerobic process for biological nutrient removal. <i>Korean Journal of Chemical Engineering</i> , 2011 , 28, 1233-1240	2.8	20
134	China's wastewater treatment goals. <i>Science</i> , 2012 , 338, 604	33.3	20
133	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	3.7	20

132	Environmentally friendly room temperature synthesis of hierarchical porous Ni(OH) ₂ nanosheets for supercapacitor and catalysis applications. <i>Green Chemistry</i> , 2019 , 21, 5960-5968	10	20
131	Relationship between polymers compatibility and casting solution stability in fabricating PVDF/PVA membranes. <i>Journal of Membrane Science</i> , 2017 , 537, 263-271	9.6	19
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