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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

228 papers	6,545 citations	42 h-index	71 g-index
234 ext. papers	8,380 ext. citations	7.7 avg, IF	6.75 L-index

#	Paper	IF	Citations
228	Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. <i>Advanced Materials</i> , 2018 , 30, e1704561	24	301
227	Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. <i>Water Research</i> , 2018 , 144, 215-225	12.5	296
226	First-principles and direct design approaches for the control of pharmaceutical crystallization. <i>Journal of Process Control</i> , 2005 , 15, 493-504	3.9	246
225	Quasi-polymeric construction of stable perovskite-type LaFeO/g-CN heterostructured photocatalyst for improved Z-scheme photocatalytic activity via solid p-n heterojunction interfacial effect. <i>Journal of Hazardous Materials</i> , 2018 , 347, 412-422	12.8	220
224	Formation of quasi-core-shell In ₂ S ₃ /anatase TiO ₂ @metallic Ti ₃ C ₂ T _x hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 233, 213-225	21.8	211
223	Membrane-based separation for oily wastewater: A practical perspective. <i>Water Research</i> , 2019 , 156, 347-365	12.5	188
222	Construction of hierarchical 2D-2D Zn ₃ In ₂ S ₆ /fluorinated polymeric carbon nitride nanosheets photocatalyst for boosting photocatalytic degradation and hydrogen production performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 233, 58-69	21.8	155
221	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn ₂ In ₂ S ₅ /Ti ₃ C ₂ (O, OH) _x hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 290-301	21.8	155
220	Photogenerated charge transfer via interfacial internal electric field for significantly improved photocatalysis in direct Z-scheme oxygen-doped carbon nitrogen/CoAl-layered double hydroxide heterojunction. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 530-540	21.8	152
219	Behavior of oil droplets at the membrane surface during crossflow microfiltration of oil/water emulsions. <i>Journal of Membrane Science</i> , 2016 , 500, 211-224	9.6	143
218	Comparative performance of concentration and temperature controlled batch crystallizations. <i>Journal of Process Control</i> , 2008 , 18, 399-407	3.9	133
217	Metal-organic framework membranes for wastewater treatment and water regeneration. <i>Coordination Chemistry Reviews</i> , 2020 , 404, 213116	23.2	132
216	Petal-like CdS nanostructures coated with exfoliated sulfur-doped carbon nitride via chemically activated chain termination for enhanced visible-light-driven photocatalytic water purification and H ₂ generation. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 181-191	21.8	123
215	Plasmonic Bi nanoparticles and BiOCl sheets as cocatalyst deposited on perovskite-type ZnSn(OH) ₆ microparticle with facet-oriented polyhedron for improved visible-light-driven photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 543-553	21.8	120
214	Recent Advances in Crystallization control. <i>Chemical Engineering Research and Design</i> , 2007 , 85, 893-905	5.5	105
213	Chemical looping gasification of biomass with Fe ₂ O ₃ /CaO as the oxygen carrier for hydrogen-enriched syngas production. <i>Chemical Engineering Journal</i> , 2020 , 379, 122346	14.7	81
212	Cluster characteristics of Geldart Group B particles in a pilot-scale CFB riser. I. Monodisperse systems. <i>Chemical Engineering Science</i> , 2012 , 68, 72-81	4.4	79

211	Unsteady-state shear strategies to enhance mass-transfer for the implementation of ultrapermeable membranes in reverse osmosis: A review. <i>Desalination</i> , 2015 , 356, 328-348	10.3	75
210	Review of cluster characteristics in circulating fluidized bed (CFB) risers. <i>Chemical Engineering Science</i> , 2017 , 158, 70-95	4.4	70
209	Thermochromic Ionogel: A New Class of Stimuli Responsive Materials with Super Cyclic Stability for Solar Modulation. <i>Chemistry of Materials</i> , 2017 , 29, 6947-6955	9.6	62
208	Understanding oily wastewater treatment via membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 539, 284-294	9.6	61
207	Cluster characteristics of Geldart group B particles in a pilot-scale CFB riser. II. Polydisperse systems. <i>Chemical Engineering Science</i> , 2012 , 68, 82-93	4.4	61
206	Ultrafiltration of saline oil-in-water emulsions stabilized by an anionic surfactant: Effect of surfactant concentration and divalent counterions. <i>Journal of Membrane Science</i> , 2017 , 537, 384-395	9.6	60
205	Membrane fouling by emulsified oil: A review. <i>Separation and Purification Technology</i> , 2020 , 248, 1169198.3	9.3	60
204	Photothermal-enhanced and fouling-resistant membrane for solar-assisted membrane distillation. <i>Journal of Membrane Science</i> , 2018 , 565, 254-265	9.6	59
203	Effect of cross-flow velocity, oil concentration and salinity on the critical flux of an oil-in-water emulsion in microfiltration. <i>Journal of Membrane Science</i> , 2017 , 530, 11-19	9.6	58
202	Effects of composition faults in ternary metal chalcogenides (Zn In ₂ S ₃ ⁺ , x = 1B) layered crystals for visible-light-driven catalytic hydrogen generation and carbon dioxide reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117810	21.8	57
201	Stable polymorphs: difficult to make and difficult to predict. <i>CrystEngComm</i> , 2007 , 9, 128	3.3	57
200	Impact of the surface energy of particulate foulants on membrane fouling. <i>Journal of Membrane Science</i> , 2016 , 510, 101-111	9.6	52
199	Axial segregation in bubbling gas-fluidized beds with Gaussian and lognormal distributions of Geldart Group B particles. <i>AIChE Journal</i> , 2010 , 56, 3049-3061	3.6	51
198	Fast Pyrolysis of Cellulose, Hemicellulose, and Lignin: Effect of Operating Temperature on Bio-oil Yield and Composition and Insights into the Intrinsic Pyrolysis Chemistry. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15838-15852	3.9	49
197	Species segregation of binary mixtures and a continuous size distribution of Group B particles in riser flow. <i>Chemical Engineering Science</i> , 2011 , 66, 4595-4604	4.4	49
196	Review of entrainment correlations in gas-solid fluidization. <i>Chemical Engineering Journal</i> , 2015 , 260, 152-171	14.7	48
195	Particle cluster dynamics during fluidization. <i>Chemical Engineering Science</i> , 2013 , 100, 39-51	4.4	48
194	Automated In-line Technique Using FBRM to Achieve Consistent Product Quality in Cooling Crystallization. <i>Crystal Growth and Design</i> , 2007 , 7, 1416-1422	3.5	45

193	Zwitterionic grafting of sulfobetaine methacrylate (SBMA) on hydrophobic PVDF membranes for enhanced anti-fouling and anti-wetting in the membrane distillation of oil emulsions. <i>Journal of Membrane Science</i> , 2019 , 588, 117196	9.6	44
192	Evaluation of correlations for minimum fluidization velocity (U) in gas-solid fluidization. <i>Powder Technology</i> , 2018 , 323, 454-485	5.2	44
191	Assessment of oil fouling by oil-membrane interaction energy analysis. <i>Journal of Membrane Science</i> , 2018 , 560, 21-29	9.6	44
190	Effect of mechanical scouring by granular activated carbon (GAC) on membrane fouling mitigation. <i>Desalination</i> , 2017 , 403, 80-87	10.3	42
189	The behavior of suspensions and macromolecular solutions in crossflow microfiltration: An update. <i>Journal of Membrane Science</i> , 2020 , 601, 117865	9.6	42
188	Analyzing external and internal membrane fouling by oil emulsions via 3D optical coherence tomography. <i>Journal of Membrane Science</i> , 2018 , 548, 632-640	9.6	42
187	Polarity Reversal in Homologous Series of Surfactant-Free Janus Nanoparticles: Toward the Next Generation of Amphiphiles. <i>Langmuir</i> , 2016 , 32, 6376-86	4	42
186	Contaminant rejection in the presence of humic acid by membrane distillation for surface water treatment. <i>Journal of Membrane Science</i> , 2017 , 541, 291-299	9.6	42
185	Cluster characteristics of continuous size distributions and binary mixtures of Group B particles in dilute riser flow. <i>Chemical Engineering Journal</i> , 2011 , 178, 348-358	14.7	41
184	Link between bubbling and segregation patterns in gas-fluidized beds with continuous size distributions. <i>AIChE Journal</i> , 2011 , 57, 3003-3011	3.6	39
183	Introduction of amino groups into polyphosphazene framework supported on CNT and coated Fe ₃ O ₄ nanoparticles for enhanced selective U(VI) adsorption. <i>Applied Surface Science</i> , 2019 , 466, 893-902	6.7	39
182	Correlating the hydrodynamics of fluidized granular activated carbon (GAC) with membrane-fouling mitigation. <i>Journal of Membrane Science</i> , 2016 , 510, 38-49	9.6	37
181	Effect of a macromolecular- or bio-fouling layer on membrane distillation. <i>Journal of Membrane Science</i> , 2014 , 456, 66-76	9.6	37
180	Characterizing the scouring efficiency of Granular Activated Carbon (GAC) particles in membrane fouling mitigation via wavelet decomposition of accelerometer signals. <i>Journal of Membrane Science</i> , 2016 , 498, 105-115	9.6	36
179	Elutriation and Species Segregation Characteristics of Polydisperse Mixtures of Group B Particles in a dilute CFB Riser. <i>AIChE Journal</i> , 2013 , 59, 84-95	3.6	35
178	Understanding membrane fouling by oil-in-water emulsion via experiments and molecular dynamics simulations. <i>Journal of Membrane Science</i> , 2018 , 566, 140-150	9.6	34
177	Dry powder inhaler formulation of high-payload antibiotic nanoparticle complex intended for bronchiectasis therapy: Spray drying versus spray freeze drying preparation. <i>International Journal of Pharmaceutics</i> , 2016 , 499, 38-46	6.5	33
176	Influence of backwashing on the pore size of hollow fiber ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017 , 521, 33-42	9.6	33

175	Multifunctional Piezoelectric Heterostructure of BaTiO@Graphene: Decomplexation of Cu-EDTA and Recovery of Cu. <i>Environmental Science & Technology</i> , 2019 , 53, 8342-8351	10.3	32
174	Tetrabromobisphenol A (TBBPA) inhibits denitrification via regulating carbon metabolism to decrease electron donation and bacterial population. <i>Water Research</i> , 2019 , 162, 190-199	12.5	32
173	Effect of spacer and crossflow velocity on the critical flux of bidisperse suspensions in microfiltration. <i>Journal of Membrane Science</i> , 2016 , 513, 101-107	9.6	32
172	Segregation dynamics of a binary-size mixture in a three-dimensional rotating drum. <i>Chemical Engineering Science</i> , 2017 , 172, 652-666	4.4	32
171	Understanding membrane pore-wetting in the membrane distillation of oil emulsions via molecular dynamics simulations. <i>Journal of Membrane Science</i> , 2018 , 551, 76-84	9.6	30
170	The Performance and Fouling Control of Submerged Hollow Fiber (HF) Systems: A Review. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 765	2.6	30
169	Impact of material property and operating conditions on mass flux profiles of monodisperse and polydisperse Group B particles in a CFB riser. <i>Powder Technology</i> , 2011 , 214, 89-98	5.2	30
168	Particle-scale modeling of biomass gasification in the three-dimensional bubbling fluidized bed. <i>Energy Conversion and Management</i> , 2019 , 196, 1-17	10.6	29
167	Roles of sulfur-edge sites, metal-edge sites, terrace sites, and defects in metal sulfides for photocatalysis. <i>Chem Catalysis</i> , 2021 , 1, 44-68		29
166	Microfiltration of oil emulsions stabilized by different surfactants. <i>Journal of Membrane Science</i> , 2019 , 579, 199-209	9.6	28
165	Pre-deposited dynamic membrane filtration - A review. <i>Water Research</i> , 2020 , 173, 115558	12.5	28
164	Effect of humic-acid fouling on membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 504, 263-273	9.6	28
163	Comparison between Open-Loop Temperature Control and Closed-Loop Supersaturation Control for Cooling Crystallization of Glycine. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 830-838	3.9	28
162	The roles of particles in enhancing membrane filtration: A review. <i>Journal of Membrane Science</i> , 2020 , 595, 117570	9.6	28
161	Numerical investigation on the effect of draft plates on spouting stability and gas-solid characteristics in a spout-fluid bed. <i>Chemical Engineering Science</i> , 2016 , 148, 108-125	4.4	27
160	Enhanced performance of submerged hollow fibre microfiltration by fluidized granular activated carbon. <i>Journal of Membrane Science</i> , 2016 , 499, 47-55	9.6	27
159	Reverse core-annular flow of Geldart Group B particles in risers. <i>Powder Technology</i> , 2012 , 221, 1-12	5.2	26
158	Influence of Alkali and Alkaline-Earth Metals on the Cleavage of Glycosidic Bond in Biomass Pyrolysis: A DFT Study Using Cellobiose as a Model Compound. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 7646-7658	2.8	26

157	Effect of surfactant hydrophobicity and charge type on membrane distillation performance. <i>Journal of Membrane Science</i> , 2019 , 587, 117168	9.6	25
156	Unlocking the high redox activity of MoS ₂ on dual-doped graphene as a superior piezocatalyst. <i>Nano Energy</i> , 2020 , 68, 104366	17.1	25
155	Assembly of three-dimensional ultralight poly(amidoxime)/graphene oxide nanoribbons aerogel for efficient removal of uranium(VI) from water samples. <i>Science of the Total Environment</i> , 2021 , 765, 142686	10.2	25
154	Eulerian-Lagrangian simulation of air-steam biomass gasification in a three-dimensional bubbling fluidized gasifier. <i>Energy</i> , 2019 , 181, 1075-1093	7.9	24
153	Effect of fluidized granular activated carbon (GAC) on critical flux in the microfiltration of particulate foulants. <i>Journal of Membrane Science</i> , 2017 , 523, 409-417	9.6	24
152	Comparative study of Transport Disengaging Height (TDH) correlations in gas-solid fluidization. <i>Powder Technology</i> , 2015 , 275, 220-238	5.2	24
151	Effects of binary particle size distribution on minimum pick-up velocity in pneumatic conveying. <i>Powder Technology</i> , 2011 , 208, 166-174	5.2	23
150	Spacer vibration for fouling control of submerged flat sheet membranes. <i>Separation and Purification Technology</i> , 2019 , 210, 719-728	8.3	23
149	Nickel cobalt catalyst supported on TiO ₂ -coated SiO ₂ spheres for CO ₂ methanation in a fluidized bed. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13443-13455	6.7	22
148	DEM study of granular flow characteristics in the active and passive regions of a three-dimensional rotating drum. <i>AIChE Journal</i> , 2016 , 62, 3874-3888	3.6	22
147	Enhancing fouling mitigation of submerged flat-sheet membranes by vibrating 3D-spacers. <i>Separation and Purification Technology</i> , 2019 , 215, 70-80	8.3	22
146	Impact of continuous particle size distribution width and particle sphericity on minimum pickup velocity in gas-solid pneumatic conveying. <i>Chemical Engineering Science</i> , 2015 , 130, 92-100	4.4	21
145	Membrane distillation hybridized with a thermoelectric heat pump for energy-efficient water treatment and space cooling. <i>Applied Energy</i> , 2018 , 231, 1079-1088	10.7	21
144	A network-based approach to interpreting pore blockage and cake filtration during membrane fouling. <i>Journal of Membrane Science</i> , 2017 , 528, 112-125	9.6	20
143	Application of machine learning methods to understand and predict circulating fluidized bed riser flow characteristics. <i>Chemical Engineering Science</i> , 2020 , 217, 115503	4.4	20
142	Effect of the surface charge of monodisperse particulate foulants on cake formation. <i>Journal of Membrane Science</i> , 2018 , 548, 108-116	9.6	20
141	Influence of module orientation and geometry in the membrane distillation of oily seawater. <i>Desalination</i> , 2017 , 423, 111-123	10.3	19
140	A three-dimensional plasmonic spacer enables highly efficient solar-enhanced membrane distillation of seawater. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10206-10211	13	19

139	Engineering highly effective nanofibrous membranes to demulsify surfactant-stabilized oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2020 , 611, 118398	9.6	19
138	Interpreting Differential Pressure Signals for Particle Properties and Operating Conditions in a Pilot-Scale Circulating Fluidized Bed Riser. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8659-8670	3.9	19
137	Effect of bubble characteristics on critical flux in the microfiltration of particulate foulants. <i>Journal of Membrane Science</i> , 2017 , 535, 279-293	9.6	18
136	DEM investigation of the axial dispersion behavior of a binary mixture in the rotating drum. <i>Powder Technology</i> , 2018 , 330, 93-104	5.2	18
135	Effect of Temperature and Transport on the Yield and Composition of Pyrolysis-Derived Bio-Oil from Glucose. <i>Energy & Fuels</i> , 2018 , 32, 6008-6021	4.1	18
134	Impact of granular segregation on the solid residence time and active-passive exchange in a rotating drum. <i>Chemical Engineering Science</i> , 2017 , 173, 287-302	4.4	18
133	CFD study on the hydrodynamics of fluidized granular activated carbon in AnFMBR applications. <i>Separation and Purification Technology</i> , 2017 , 178, 75-89	8.3	17
132	Construction of hole-transported MoO ₃ -x coupled with CdS nanospheres for boosting photocatalytic performance via oxygen-defects-mediated Z-scheme charge transfer. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4780	3.1	17
131	Fouling behavior of colloidal particles in organic solvent ultrafiltration. <i>Journal of Membrane Science</i> , 2020 , 599, 117836	9.6	17
130	N, P and S co-doped carbon materials derived from polyphosphazene for enhanced selective U(VI) adsorption. <i>Science of the Total Environment</i> , 2020 , 706, 136019	10.2	17
129	Impact of particle diameter, density and sphericity on minimum pickup velocity of binary mixtures in gas-solid pneumatic conveying. <i>Powder Technology</i> , 2016 , 297, 311-319	5.2	17
128	Porosimetric membrane characterization techniques: A review. <i>Journal of Membrane Science</i> , 2021 , 619, 118750	9.6	17
127	Unravelling the catalytic influence of naturally occurring salts on biomass pyrolysis chemistry using glucose as a model compound: a combined experimental and DFT study. <i>Catalysis Science and Technology</i> , 2019 , 9, 3504-3524	5.5	16
126	Improved design and protocol for evapoporometry determination of the pore-size distribution. <i>Journal of Membrane Science</i> , 2015 , 496, 334-343	9.6	16
125	Fast and High Amount of U(VI) Uptake by Functional Magnetic Carbon Nanotubes with Phosphate Group. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14551-14560	3.9	16
124	Critical flux and fouling mechanism in cross flow microfiltration of oil emulsion: Effect of viscosity and bidispersity. <i>Separation and Purification Technology</i> , 2019 , 212, 684-691	8.3	15
123	Consistent second-order boundary implementations for convection-diffusion lattice Boltzmann method. <i>Physical Review E</i> , 2018 , 97, 023302	2.4	14
122	In-situ characterization of cake layer fouling during crossflow microfiltration of oil-in-water emulsion. <i>Separation and Purification Technology</i> , 2019 , 218, 51-58	8.3	13

121	Striping phenomenon during cross-flow microfiltration of oil-in-water emulsions. <i>Separation and Purification Technology</i> , 2018 , 207, 514-522	8.3	13
120	Understanding the varying discharge rates of lognormal particle size distributions from a hopper using the Discrete Element Method. <i>Powder Technology</i> , 2019 , 342, 356-370	5.2	13
119	Membrane characterization via evapoporometry (EP) and liquid-liquid displacement porosimetry (LLDP) techniques. <i>Journal of Membrane Science</i> , 2019 , 586, 248-258	9.6	12
118	Cake formation of bidisperse suspensions in dead-end microfiltration. <i>Journal of Membrane Science</i> , 2019 , 577, 31-40	9.6	12
117	Numerical investigation of the back-mixing and non-uniform characteristics in the three-dimensional full-loop circulating fluidized bed combustor with six parallel cyclones. <i>Applied Thermal Engineering</i> , 2019 , 153, 524-535	5.8	12
116	Impact of multi-hole-wall air coupling with air-staged technology on H ₂ S evolution during pulverized coal combustion. <i>Fuel Processing Technology</i> , 2018 , 179, 277-284	7.2	12
115	Tunable affinity separation enables ultrafast solvent permeation through layered double hydroxide membranes. <i>Journal of Membrane Science</i> , 2019 , 591, 117318	9.6	12
114	Annulus flow behavior of Geldart Group B particles in a pilot-scale CFB riser. <i>Powder Technology</i> , 2017 , 305, 816-828	5.2	12
113	Consistent lattice Boltzmann methods for incompressible axisymmetric flows. <i>Physical Review E</i> , 2016 , 94, 023302	2.4	12
112	Membrane oscillation and slot (pore) blocking in oil/water separation. <i>Chemical Engineering Research and Design</i> , 2019 , 142, 111-120	5.5	12
111	Effect of membrane fouling on chiral separation. <i>Journal of Membrane Science</i> , 2020 , 593, 117352	9.6	12
110	DEM study on the discharge characteristics of lognormal particle size distributions from a conical hopper. <i>AIChE Journal</i> , 2018 , 64, 1174-1190	3.6	12
109	Flow-field mitigation of membrane fouling (FMMF) via manipulation of the convective flow in cross-flow membrane applications. <i>Journal of Membrane Science</i> , 2017 , 526, 377-386	9.6	11
108	Metallicity-Dependent Ultrafast Water Transport in Carbon Nanotubes. <i>Small</i> , 2020 , 16, e1907575	11	11
107	Internal fouling during microfiltration with foulants of different surface charges. <i>Journal of Membrane Science</i> , 2020 , 602, 117983	9.6	11
106	An environmentally sustainable approach for online chemical cleaning of MBR with activated peroxymonosulfate. <i>Journal of Membrane Science</i> , 2020 , 600, 117872	9.6	11
105	Localized induction heating of metallic spacers for energy-efficient membrane distillation. <i>Journal of Membrane Science</i> , 2020 , 606, 118150	9.6	11
104	Impact of the Multihole Wall Air Coupling with Air Staged on NO _x Emission during Pulverized Coal Combustion. <i>Energy & Fuels</i> , 2018 , 32, 1464-1473	4.1	11

103	Boron transfer during desalination by electrodialysis. <i>Journal of Membrane Science</i> , 2018 , 547, 64-72	9.6	11
102	Influence of operating parameters and flow regime on solid dispersion behavior in a gas-solid spout-fluid bed. <i>Chemical Engineering Science</i> , 2016 , 142, 112-125	4.4	11
101	Minimum pickup velocity (U_{pu}) of nanoparticles in gas-solid pneumatic conveying. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	11
100	In-situ monitoring of oil emulsion fouling in ultrafiltration via electrical impedance spectroscopy (EIS): Influence of surfactant. <i>Journal of Membrane Science</i> , 2020 , 616, 118527	9.6	11
99	Two-Dimensional Transition-Metal Dichalcogenide-Based Membrane for Ultrafast Solvent Permeation. <i>Chemistry of Materials</i> , 2019 , 31, 10002-10007	9.6	11
98	Link between interfacial interaction and membrane fouling during organic solvent ultrafiltration of colloidal foulants. <i>Journal of Membrane Science</i> , 2020 , 611, 118369	9.6	10
97	DEM study of the size-induced segregation dynamics of a ternary-size granular mixture in the rolling-regime rotating drum. <i>Physics of Fluids</i> , 2017 , 29, 123301	4.4	10
96	Modeling fluid-particle interaction in dilute-phase turbulent liquid-particle flow simulation. <i>Particuology</i> , 2010 , 8, 150-160	2.8	10
95	Metallic spacers to enhance membrane distillation. <i>Journal of Membrane Science</i> , 2019 , 572, 171-183	9.6	10
94	Oil droplet behavior on model nanofiltration membrane surfaces under conditions of hydrodynamic shear and salinity. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 247-259	9.3	10
93	A fluidized-bed model for NiMgW-catalyzed CO ₂ methanation. <i>Particuology</i> , 2020 , 49, 55-64	2.8	10
92	Effect of initial particle deposition rate on cake formation during dead-end microfiltration. <i>Journal of Membrane Science</i> , 2021 , 618, 118672	9.6	10
91	Membrane fouling mitigation techniques for oily wastewater: A short review. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102293	6.7	10
90	Millifluidic synthesis of amorphous drug-polysaccharide nanoparticle complex with tunable size intended for supersaturating drug delivery applications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 112, 196-203	5.7	9
89	Evaporimetry adaptation to determine the lumen-side pore-size distribution (PSD) of hollow fiber and tubular membranes. <i>Journal of Membrane Science</i> , 2017 , 526, 1-8	9.6	9
88	Numerical study on the axial segregation dynamics of a binary-size granular mixture in a three-dimensional rotating drum. <i>Physics of Fluids</i> , 2017 , 29, 103302	4.4	9
87	Monitoring local membrane fouling mitigation by fluidized GAC in lab-scale and pilot-scale AnFMBRs. <i>Separation and Purification Technology</i> , 2018 , 199, 331-345	8.3	9
86	Three-dimensional axial dispersion dynamics of granular flow in the rolling-regime rotating drum. <i>Powder Technology</i> , 2018 , 332, 131-138	5.2	9

- 85 Simulation of the granular flow of cylindrical particles in the rotating drum. *AIChE Journal*, **2018**, 64, 3835-3848
- 84 Internal membrane fouling by proteins during microfiltration. *Journal of Membrane Science*, **2021**, 637, 119589 9.6 9
- 83 Investigation of the high U(VI) adsorption properties of phosphoric acid-functionalized heteroatoms-doped carbon materials. *Solid State Sciences*, **2020**, 104, 106248 3.4 8
- 82 CFDEM investigation into the scaling up of spout-fluid beds via two interconnected chambers. *AIChE Journal*, **2016**, 62, 1898-1916 3.6 8
- 81 Intrusive probes in riser applications. *AIChE Journal*, **2017**, 63, 5361-5374 3.6 8
- 80 Surfactant-free synthesis of sub-100 nm poly(styrene-co-divinylbenzene) nanoparticles by one-step ultrasonic assisted emulsification/polymerization. *RSC Advances*, **2015**, 5, 103218-103228 3.7 8
- 79 Mechanistic understanding of the adsorption of natural organic matter by heated aluminum oxide particles (HAOPs) via molecular dynamics simulation. *Journal of Membrane Science*, **2020**, 598, 117651 9.6 8
- 78 Numerical investigation of the cluster property and flux distribution in three-dimensional full-loop circulating fluidized bed with multiple parallel cyclones. *Powder Technology*, **2019**, 342, 253-266 5.2 8
- 77 Extending the uppermost pore diameter measureable via Evaporimetry. *Journal of Membrane Science*, **2017**, 524, 637-643 9.6 7
- 76 Relationship between scouring efficiency and overall concentration of fluidized granular activated carbon (GAC) in microfiltration. *Chemical Engineering Research and Design*, **2018**, 132, 28-39 5.5 7
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- 74 Consistent boundary conditions of the multiple-relaxation-time lattice Boltzmann method for convection-diffusion equations. *Computers and Fluids*, **2018**, 170, 24-40 2.8 7
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