

# Jianquan Luo

## List of Publications by Citations

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139  
papers

4,110  
citations

36  
h-index

57  
g-index

146  
ext. papers

5,270  
ext. citations

8.4  
avg, IF

6.32  
L-index

#	Paper	IF	Citations
139	Effects of pH and salt on nanofiltration—critical review. <i>Journal of Membrane Science</i> , <b>2013</b> , 438, 18-28	9.6	335
138	Surface engineering of polymer membranes via mussel-inspired chemistry. <i>Journal of Membrane Science</i> , <b>2015</b> , 483, 42-59	9.6	301
137	Membrane fouling in photocatalytic membrane reactors (PMRs) for water and wastewater treatment: A critical review. <i>Chemical Engineering Journal</i> , <b>2016</b> , 302, 446-458	14.7	162
136	Effect of highly concentrated salt on retention of organic solutes by nanofiltration polymeric membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 372, 145-153	9.6	101
135	A two-stage ultrafiltration and nanofiltration process for recycling dairy wastewater. <i>Bioresource Technology</i> , <b>2011</b> , 102, 7437-42	11	99
134	Cascade catalysis in membranes with enzyme immobilization for multi-enzymatic conversion of CO <sub>2</sub> to methanol. <i>New Biotechnology</i> , <b>2015</b> , 32, 319-27	6.4	91
133	Sharpening Nanofiltration: Strategies for Enhanced Membrane Selectivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39948-39966	9.5	90
132	Separation of furfural from monosaccharides by nanofiltration. <i>Bioresource Technology</i> , <b>2011</b> , 102, 7111-18	11	86
131	Application of NF-RDM (nanofiltration rotating disk membrane) module under extreme hydraulic conditions for the treatment of dairy wastewater. <i>Chemical Engineering Journal</i> , <b>2010</b> , 163, 307-316	14.7	85
130	A Review on Flux Decline Control Strategies in Pressure-Driven Membrane Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 2843-2861	3.9	80
129	An efficient process for lactic acid production from wheat straw by a newly isolated <i>Bacillus coagulans</i> strain IPE22. <i>Bioresource Technology</i> , <b>2014</b> , 158, 396-9	11	76
128	Threshold flux for shear-enhanced nanofiltration: Experimental observation in dairy wastewater treatment. <i>Journal of Membrane Science</i> , <b>2012</b> , 409-410, 276-284	9.6	71
127	Bioinspired Multifunctional Membrane for Aquatic Micropollutants Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 30511-30522	9.5	65
126	Significance, evolution and recent advances in adsorption technology, materials and processes for desalination, water softening and salt removal. <i>Journal of Environmental Management</i> , <b>2018</b> , 215, 324-344	7.9	63
125	Flux behavior in clarification of chicory juice by high-shear membrane filtration: Evidence for threshold flux. <i>Journal of Membrane Science</i> , <b>2013</b> , 435, 120-129	9.6	58
124	Immobilization of cellulase on a core-shell structured metal-organic framework composites: Better inhibitors tolerance and easier recycling. <i>Bioresource Technology</i> , <b>2018</b> , 268, 577-582	11	55
123	Highly permeable biocatalytic membrane prepared by 3D modification: Metal-organic frameworks ameliorate its stability for micropollutants removal. <i>Chemical Engineering Journal</i> , <b>2018</b> , 348, 389-398	14.7	54

122	Treatment of dairy effluent by shear-enhanced membrane filtration: The role of foulants. <i>Separation and Purification Technology</i> , <b>2012</b> , 96, 194-203	8.3	54
121	Desalination of soy sauce by nanofiltration. <i>Separation and Purification Technology</i> , <b>2009</b> , 66, 429-437	8.3	54
120	Physicochemical characterization of tight nanofiltration membranes for dairy wastewater treatment. <i>Journal of Membrane Science</i> , <b>2018</b> , 547, 51-63	9.6	53
119	Refining sugarcane juice by an integrated membrane process: Filtration behavior of polymeric membrane at high temperature. <i>Journal of Membrane Science</i> , <b>2016</b> , 509, 105-115	9.6	53
118	Biocatalytic Membrane Based on Polydopamine Coating: A Platform for Studying Immobilization Mechanisms. <i>Langmuir</i> , <b>2018</b> , 34, 2585-2594	4	50
117	Improving lactic acid productivity from wheat straw hydrolysates by membrane integrated repeated batch fermentation under non-sterilized conditions. <i>Bioresource Technology</i> , <b>2014</b> , 163, 160-6	11	50
116	Fouling-induced enzyme immobilization for membrane reactors. <i>Bioresource Technology</i> , <b>2013</b> , 147, 260-268	11	48
115	Removal of polycyclic aromatic hydrocarbons by nanofiltration membranes: Rejection and fouling mechanisms. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 264-273	9.6	45
114	Effect of alkali lignins with different molecular weights from alkali pretreated rice straw hydrolyzate on enzymatic hydrolysis. <i>Bioresource Technology</i> , <b>2016</b> , 200, 272-8	11	45
113	Directing filtration to optimize enzyme immobilization in reactive membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 459, 1-11	9.6	44
112	Fouling behavior of dairy wastewater treatment by nanofiltration under shear-enhanced extreme hydraulic conditions. <i>Separation and Purification Technology</i> , <b>2012</b> , 88, 79-86	8.3	44
111	Functionalization of a membrane sublayer using reverse filtration of enzymes and dopamine coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22894-904	9.5	44
110	Regenerable biocatalytic nanofiltration membrane for aquatic micropollutants removal. <i>Journal of Membrane Science</i> , <b>2018</b> , 549, 120-128	9.6	44
109	Visible-Light-Activated Photocatalytic Films toward Self-Cleaning Membranes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002847	15.6	43
108	Enzyme immobilization by fouling in ultrafiltration membranes: Impact of membrane configuration and type on flux behavior and biocatalytic conversion efficacy. <i>Biochemical Engineering Journal</i> , <b>2014</b> , 83, 79-89	4.2	43
107	Loose nanofiltration membrane custom-tailored for resource recovery. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 127376	14.7	39
106	Continuous AcetoneButanolEthanol (ABE) Fermentation with in Situ Solvent Recovery by Silicalite-1 Filled PDMS/PAN Composite Membrane. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 555-562	4.1	38
105	Concentration polarization in concentrated saline solution during desalination of iron dextran by nanofiltration. <i>Journal of Membrane Science</i> , <b>2010</b> , 363, 170-179	9.6	38

104	Filtration behavior of casein glycomacropeptide (CGMP) in an enzymatic membrane reactor: fouling control by membrane selection and threshold flux operation. <i>Journal of Membrane Science</i> , <b>2014</b> , 469, 127-139	9.6	37
103	Separation of phenolic acids from monosaccharides by low-pressure nanofiltration integrated with laccase pre-treatments. <i>Journal of Membrane Science</i> , <b>2015</b> , 482, 83-91	9.6	36
102	Efficient ionic liquid-based platform for multi-enzymatic conversion of carbon dioxide to methanol. <i>Green Chemistry</i> , <b>2018</b> , 20, 4339-4348	10	36
101	Custom-Tailoring Loose Nanofiltration Membrane for Precise Biomolecule Fractionation: New Insight into Post-Treatment Mechanisms. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13327-13337	9.5	35
100	Self-cleaning photocatalytic MXene composite membrane for synergistically enhanced water treatment: Oil/water separation and dyes removal. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131668	14.7	35
99	Mussel-inspired co-deposition to enhance bisphenol A removal in a bifacial enzymatic membrane reactor. <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 315-324	14.7	34
98	High performance separation of xylose and glucose by enzyme assisted nanofiltration. <i>Journal of Membrane Science</i> , <b>2015</b> , 492, 107-115	9.6	31
97	How Do Chemical Cleaning Agents Act on Polyamide Nanofiltration Membrane and Fouling Layer?. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 17653-17670	3.9	31
96	Drawing on Membrane Photocatalysis for Fouling Mitigation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 14844-14865	9.5	31
95	Separation of Sucrose and Reducing Sugar in Cane Molasses by Nanofiltration. <i>Food and Bioprocess Technology</i> , <b>2018</b> , 11, 913-925	5.1	30
94	Directing filtration to narrow molecular weight distribution of oligodextran in an enzymatic membrane reactor. <i>Journal of Membrane Science</i> , <b>2018</b> , 555, 268-279	9.6	27
93	Polydopamine meets porous membrane: A versatile platform for facile preparation of membrane adsorbers. <i>Journal of Chromatography A</i> , <b>2016</b> , 1448, 121-126	4.5	27
92	A novel membrane-based integrated process for fractionation and reclamation of dairy wastewater. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 1061-1070	14.7	27
91	An integrated membrane system for the biocatalytic production of 3Ssialyllactose from dairy by-products. <i>Bioresource Technology</i> , <b>2014</b> , 166, 9-16	11	26
90	Succinic acid biosynthesis from cane molasses under low pH by <i>Actinobacillus succinogenes</i> immobilized in luffa sponge matrices. <i>Bioresource Technology</i> , <b>2018</b> , 268, 45-51	11	26
89	Intensification of L-poly(L-malic acid) production by <i>Aureobasidium pullulans</i> ipe-1 in the late exponential growth phase. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2012</b> , 39, 1073-80	4.2	24
88	A novel process for molasses utilization by membrane filtration and resin adsorption. <i>Journal of Cleaner Production</i> , <b>2019</b> , 207, 432-443	10.3	24
87	Sustainable utilization of cane molasses by an integrated separation process: Interplay between adsorption and nanofiltration. <i>Separation and Purification Technology</i> , <b>2019</b> , 219, 16-24	8.3	23

86	Aquatic micro-pollutants removal with a biocatalytic membrane prepared by metal chelating affinity membrane chromatography. <i>Chemical Engineering Journal</i> , <b>2017</b> , 327, 1011-1020	14.7	23
85	Optimizing the biocatalytic productivity of an engineered sialidase from <i>Trypanosoma rangeli</i> for 3Ssialyllactose production. <i>Enzyme and Microbial Technology</i> , <b>2014</b> , 55, 85-93	3.8	23
84	Decoloration of Molasses by Ultrafiltration and Nanofiltration: Unraveling the Mechanisms of High Sucrose Retention. <i>Food and Bioprocess Technology</i> , <b>2019</b> , 12, 39-53	5.1	23
83	Decoloration of sugarcane molasses by tight ultrafiltration: Filtration behavior and fouling control. <i>Separation and Purification Technology</i> , <b>2018</b> , 204, 66-74	8.3	22
82	From second generation feed-stocks to innovative fermentation and downstream techniques for succinic acid production. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 50, 1829-1873	11.1	22
81	Fully recycling dairy wastewater by an integrated isoelectric precipitation–nanofiltration–anaerobic fermentation process. <i>Chemical Engineering Journal</i> , <b>2016</b> , 283, 476-485	14.7	21
80	Enzyme-Like Metal-Organic Frameworks in Polymeric Membranes for Efficient Removal of Aflatoxin B. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 30542-30550	9.5	21
79	Can graphene oxide improve the performance of biocatalytic membrane?. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 982-993	14.7	21
78	Membrane chromatography for fast enzyme purification, immobilization and catalysis: A renewable biocatalytic membrane. <i>Journal of Membrane Science</i> , <b>2017</b> , 538, 68-76	9.6	20
77	Biofouling in sugarcane juice refining by nanofiltration membrane: Fouling mechanism and cleaning. <i>Journal of Membrane Science</i> , <b>2020</b> , 612, 118432	9.6	20
76	Separation of 3'-sialyllactose and lactose by nanofiltration: A trade-off between charge repulsion and pore swelling induced by high pH. <i>Separation and Purification Technology</i> , <b>2014</b> , 138, 77-83	8.3	20
75	Nanofiltration for Decolorization: Membrane Fabrication, Applications and Challenges. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 19858-19875	3.9	20
74	Enzymatic Cascade Catalysis in a Nanofiltration Membrane: Engineering the Microenvironment by Synergism of Separation and Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22419-22428	9.5	19
73	Biocatalytic membrane: Go far beyond enzyme immobilization. <i>Engineering in Life Sciences</i> , <b>2020</b> , 20, 441-450	3.4	19
72	A robust dually charged membrane prepared via catechol-amine chemistry for highly efficient dye/salt separation. <i>Journal of Membrane Science</i> , <b>2021</b> , 629, 119287	9.6	18
71	Nanostructured Polyphenol-Mediated Coating: a Versatile Platform for Enzyme Immobilization and Micropollutant Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 2708-2717	3.9	17
70	Desalination of effluents with highly concentrated salt by nanofiltration: From laboratory to pilot-plant. <i>Desalination</i> , <b>2013</b> , 315, 91-99	10.3	17
69	Enzyme membrane reactors for production of oligosaccharides: A review on the interdependence between enzyme reaction and membrane separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 243, 116840	8.3	17

68	High molecular weight $\alpha$ -poly(L-malic acid) produced by <i>A. pullulans</i> with $\text{Ca}^{2+}$ added repeated batch culture. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 85, 192-9	7.9	16
67	Improving the hydrolysis efficiency of soy sauce residue using ultrasonic probe-assisted enzymolysis technology. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 35, 351-358	8.9	16
66	Threshold flux in concentration mode: Fouling control during clarification of molasses by ultrafiltration. <i>Journal of Membrane Science</i> , <b>2019</b> , 586, 130-139	9.6	15
65	Aflatoxin B1 removal by multifunctional membrane based on polydopamine intermediate layer. <i>Separation and Purification Technology</i> , <b>2018</b> , 199, 311-319	8.3	15
64	A pilot-plant test on desalination of soy sauce by nanofiltration. <i>Separation and Purification Technology</i> , <b>2012</b> , 89, 217-224	8.3	15
63	High-level productivity of $\beta$ -dodecanedioic acid with a newly isolated <i>Candida viswanathii</i> strain. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2017</b> , 44, 1191-1202	4.2	14
62	Directing membrane chromatography to manufacture $\alpha$ -antitrypsin from human plasma fraction IV. <i>Journal of Chromatography A</i> , <b>2015</b> , 1423, 63-70	4.5	14
61	Self-Cleaning Membranes: Visible-Light-Activated Photocatalytic Films toward Self-Cleaning Membranes (Adv. Funct. Mater. 34/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070230	15.6	14
60	Efficient $\alpha$ -poly(L-malic acid) production from Jerusalem artichoke by <i>Aureobasidium pullulans</i> ipe-1 immobilized in luffa sponge matrices. <i>Bioresource Technology</i> , <b>2019</b> , 288, 121497	11	13
59	Exploring the potential of lactic acid production from lignocellulosic hydrolysates with various ratios of hexose versus pentose by <i>Bacillus coagulans</i> IPE22. <i>Bioresource Technology</i> , <b>2018</b> , 261, 342-349 <sup>11</sup>	11	13
58	$\alpha$ -poly(L-malic acid) production by fed-batch culture of <i>Aureobasidium pullulans</i> ipe-1 with mixed sugars. <i>Engineering in Life Sciences</i> , <b>2014</b> , 14, 180-189	3.4	13
57	Improved blood compatibility of polysulfone membrane by anticoagulant protein immobilization. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 175, 586-595	6	13
56	Structure-property-performance relationships of lactic acid-based deep eutectic solvents with different hydrogen bond acceptors for corn stover pretreatment. <i>Bioresource Technology</i> , <b>2021</b> , 336, 125312	11	13
55	In Situ Formation of a Biocatalytic Alginate Membrane by Enhanced Concentration Polarization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17682-91	9.5	12
54	Effectively converting carbon dioxide into succinic acid under mild pressure with <i>Actinobacillus succinogenes</i> by an integrated fermentation and membrane separation process. <i>Bioresource Technology</i> , <b>2018</b> , 266, 26-33	11	12
53	Horseradish Peroxidase Immobilized on Multifunctional Hybrid Microspheres for Aflatoxin B1 Removal: Will Enzymatic Reaction be Enhanced by Adsorption?. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 11710-11719	3.9	12
52	Facile and green fabrication of cation exchange membrane adsorber with unprecedented adsorption capacity for protein purification. <i>Journal of Chromatography A</i> , <b>2017</b> , 1521, 19-26	4.5	12
51	$\beta$ -Dodecanedioic acid production by <i>Candida viswanathii</i> ipe-1 with co-utilization of wheat straw hydrolysates and n-dodecane. <i>Bioresource Technology</i> , <b>2017</b> , 243, 179-187	11	12

50	Membrane-assisted $\Gamma$ -poly(L-malic acid) production from bagasse hydrolysates by <i>Aureobasidium pullulans</i> ipe-1. <i>Bioresource Technology</i> , <b>2020</b> , 295, 122260	11	12
49	Impact of the fouling mechanism on enzymatic depolymerization of xylan in different configurations of membrane reactors. <i>Separation and Purification Technology</i> , <b>2017</b> , 178, 154-162	8.3	11
48	Sandwich structured membrane adsorber with metal organic frameworks for aflatoxin B1 removal. <i>Separation and Purification Technology</i> , <b>2020</b> , 246, 116907	8.3	11
47	Polyketone-based membrane support improves the organic solvent resistance of laccase catalysis. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 544, 230-240	9.3	9
46	Ferric ions mediated defects narrowing of graphene oxide nanofiltration membrane for robust removal of organic micropollutants. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128587	14.7	9
45	Targeted modification of polyamide nanofiltration membrane for efficient separation of monosaccharides and monovalent salt. <i>Journal of Membrane Science</i> , <b>2021</b> , 628, 119250	9.6	9
44	One step open fermentation for lactic acid production from inedible starchy biomass by thermophilic <i>Bacillus coagulans</i> IPE22. <i>Bioresource Technology</i> , <b>2019</b> , 272, 398-406	11	9
43	Facile preparation of salt-tolerant anion-exchange membrane adsorber using hydrophobic membrane as substrate. <i>Journal of Chromatography A</i> , <b>2017</b> , 1490, 54-62	4.5	8
42	From molasses to syrup: Engineering ultrafiltration membrane surface to improve invertase reusability. <i>Journal of Membrane Science</i> , <b>2020</b> , 610, 118287	9.6	8
41	Alginate dialdehyde meets nylon membrane: a versatile platform for facile and green fabrication of membrane adsorbers. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 1640-1649	7.3	8
40	Fabrication of PES-based membranes with a high and stable desalination performance for membrane distillation. <i>RSC Advances</i> , <b>2016</b> , 6, 107840-107850	3.7	8
39	High-performance PDMS membranes for pervaporative removal of VOCs from water: The role of alkyl grafting. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	8
38	Ionic Liquids as Bifunctional Cosolvents Enhanced CO <sub>2</sub> Conversion Catalysed by NADH-Dependent Formate Dehydrogenase. <i>Catalysts</i> , <b>2018</b> , 8, 304	4	8
37	New insights into effect of alkaline cleaning on fouling behavior of polyamide nanofiltration membrane for wastewater treatment. <i>Science of the Total Environment</i> , <b>2021</b> , 780, 146632	10.2	8
36	A novel paradigm of photocatalytic cleaning for membrane fouling removal. <i>Journal of Membrane Science</i> , <b>2022</b> , 641, 119859	9.6	8
35	One-step purification of $\beta$ -antitrypsin by regulating polyelectrolyte ligands on mussel-inspired membrane adsorber. <i>Journal of Membrane Science</i> , <b>2017</b> , 528, 155-162	9.6	7
34	Toward understanding the key enzymes involved in $\Gamma$ -poly (L-malic acid) biosynthesis by ipe-1. <i>Engineering in Life Sciences</i> , <b>2018</b> , 18, 379-386	3.4	7
33	Preparation of Hypophosphorous Acid by Bipolar Membrane Electrodialysis: Process Optimization and Phosphorous Acid Minimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21855-21863	3.9	7

32	Green production of sugar by membrane technology: How far is it from industrialization?. <i>Green Chemical Engineering</i> , <b>2021</b> , 2, 27-43	3	7
31	Surface functionalization of nanofiltration membrane by catechol-amine codeposition for enhancing antifouling performance. <i>Journal of Membrane Science</i> , <b>2021</b> , 635, 119451	9.6	7
30	Highly permeable acid-resistant nanofiltration membrane based on a novel sulfonamide aqueous monomer for efficient acidic wastewater treatment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131791	14.7	7
29	Commercial polysulfone membranes pretreated with ethanol and NaOH: Effects on permeability, selectivity and antifouling properties. <i>Separation and Purification Technology</i> , <b>2019</b> , 219, 82-89	8.3	6
28	Deconstruction and reconstitution of fouling layer in decolorization of cane juice by nanofiltration membrane <b>2021</b> , 1, 100010		6
27	Improving $\alpha$ -dodecanedioic acid productivity from n-dodecane and hydrolysate of <i>Candida</i> cells by membrane integrated repeated batch fermentation. <i>Bioresource Technology</i> , <b>2018</b> , 260, 9-15	11	5
26	Resource Recovery from Soybean Soaking Water by Ultrafiltration and Reverse Osmosis. <i>Food and Bioprocess Technology</i> , <b>2015</b> , 8, 1730-1738	5.1	5
25	Confining the motion of enzymes in nanofiltration membrane for efficient and stable removal of micropollutants. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127870	14.7	5
24	Nanofiltration for separation and purification of saccharides from biomass. <i>Frontiers of Chemical Science and Engineering</i> , <b>2021</b> , 15, 1-17	4.5	5
23	Development of an Ionic Porphyrin-Based Platform as a Biomimetic Light-Harvesting Agent for High-Performance Photoenzymatic Synthesis of Methanol from CO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 11503-11511	8.3	5
22	Mussel-Inspired Membrane Adsorber with Thiol Ligand for Patulin Removal: Adsorption and Regeneration Behaviors. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800790	3.9	4
21	Role of oxygen supply in $\alpha$ -dodecanedioic acid biosynthesis from n-dodecane by <i>ipe-1</i> : Effect of stirring speed and aeration. <i>Engineering in Life Sciences</i> , <b>2018</b> , 18, 196-203	3.4	4
20	Simultaneous decolorization and deproteinization of $\alpha$ -dodecanedioic acid fermentation broth by integrated ultrafiltration and adsorption treatments. <i>Bioprocess and Biosystems Engineering</i> , <b>2018</b> , 41, 1271-1281	3.7	4
19	A dual regulation strategy for MXene-based composite membrane to achieve photocatalytic self-cleaning properties and multi-functional applications. <i>Chemical Engineering Journal</i> , <b>2022</b> , 443, 136335	14.7	4
18	Tuning pore size and surface charge of poly(piperazinamide) nanofiltration membrane by enhanced chemical cleaning treatment. <i>Journal of Membrane Science</i> , <b>2022</b> , 643, 120054	9.6	3
17	A novel acid resistant thin-film composite nanofiltration membrane with polyurea enhanced dually charged separation layer <b>2021</b> , 1, 100002		3
16	Mathematical modelling of reaction-separation in an enzymatic membrane reactor during oligodextran production. <i>Journal of Membrane Science</i> , <b>2021</b> , 623, 119082	9.6	3
15	An enzymatic membrane reactor for oligodextran production: Effects of enzyme immobilization strategies on dextranase activity. <i>Carbohydrate Polymers</i> , <b>2021</b> , 271, 118430	10.3	3



14	One step separation of <i>Aureobasidium pullulans</i> from $\square$ -poly(L-malic acid) fermentation broth by membranes technology. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 845-853	3.5	2
13	Separation of succinic acid from fermentation broth: Dielectric exclusion, Donnan effect and diffusion as the most influential mass transfer mechanisms. <i>Separation and Purification Technology</i> , <b>2022</b> , 281, 119904	8.3	2
12	Nanofiltration membrane for bio-separation: Process-oriented materials innovation. <i>Engineering in Life Sciences</i> , <b>2021</b> , 21, 405-416	3.4	2
11	Fabrication of Antiswelling Loose Nanofiltration Membranes via a "Selective-Etching-Induced Reinforcing" Strategy for Bioseparation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19312-19323	9.5	2
10	Comparison of Corn Stover Pretreatments with Lewis Acid Catalyzed Choline Chloride, Glycerol and Choline Chloride-Glycerol Deep Eutectic Solvent. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
9	A Review on the Design and Performance of Enzyme-Aided Catalysis of Carbon Dioxide in Membrane, Electrochemical Cell and Photocatalytic Reactors.. <i>Membranes</i> , <b>2021</b> , 12,	3.8	2
8	Modelling of oligodextran production via an immobilized enzyme membrane reactor: Bioreaction-separation coupling mechanism. <i>Separation and Purification Technology</i> , <b>2021</b> , 120024	8.3	1
7	A sustainable pH shift control strategy for efficient production of $\square$ -poly(L-malic acid) with CaCO <sub>3</sub> addition by <i>Aureobasidium pullulans</i> ipe-1. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 8691-8703	5.7	1
6	Lewis acid-mediated aqueous glycerol pretreatment of sugarcane bagasse: Pretreatment recycling, one-pot hydrolysis and lignin properties. <i>Renewable Energy</i> , <b>2021</b> , 178, 1456-1465	8.1	1
5	Regenerable temperature-responsive biocatalytic nanofiltration membrane for organic micropollutants removal.. <i>IScience</i> , <b>2022</b> , 25, 103671	6.1	0
4	Pretreatment of corn stover by acidic and basic choline chloride solutions for enzymatic hydrolysis. <i>Cellulose</i> , <b>2021</b> , 28, 10127	5.5	0
3	Exploring ions selectivity of nanofiltration membranes for rare earth wastewater treatment. <i>Separation and Purification Technology</i> , <b>2022</b> , 289, 120748	8.3	0
2	Probing the influence of shape and loading of CeO <sub>2</sub> nanoparticles on the separation performance of thin-film nanocomposite membranes with an interlayer. <i>Separation and Purification Technology</i> , <b>2022</b> , 291, 120930	8.3	0
1	Preparation of acid-resistant nanofiltration membrane with dually charged separation layer for enhanced salts removal. <i>Separation and Purification Technology</i> , <b>2022</b> , 292, 120974	8.3	0