

Yen Wah Tong

List of Publications by Year in Descending Order

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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.

197
papers

8,172
citations

52
h-index

83
g-index

204
ext. papers

9,664
ext. citations

8.8
avg, IF

6.56
L-index

#	Paper	IF	Citations
197	Acidogenic fermentation of organic wastes for production of volatile fatty acids 2022 , 343-366		0
196	Functional microbial characteristics in acidogenic fermenters of organic wastes for production of volatile fatty acids 2022 , 367-394		
195	Bioaugmentation strategies via acclimatized microbial consortia for bioenergy production 2022 , 179-214		
194	Strategies for enhanced microbial fermentation processes 2022 , 1-24		1
193	Methodological framework for wastewater treatment plants delivering expanded service: Economic tradeoffs and technological decisions.. <i>Science of the Total Environment</i> , 2022 , 153616	10.2	2
192	Abrogating the inhibitory effects of volatile fatty acids and ammonia in overloaded food waste anaerobic digesters via the supplementation of nano-zero valent iron modified biochar.. <i>Science of the Total Environment</i> , 2022 , 817, 152968	10.2	2
191	Enhancing microbial lipids yield for biodiesel production by oleaginous yeast <i>Lipomyces starkeyi</i> fermentation: A review. <i>Bioresource Technology</i> , 2022 , 344, 126294	11	2
190	Plastic-containing food waste conversion to biomethane, syngas, and biochar via anaerobic digestion and gasification: Focusing on reactor performance, microbial community analysis, and energy balance assessment.. <i>Journal of Environmental Management</i> , 2022 , 306, 114471	7.9	2
189	Engineering interface between bioenergy recovery and biogas desulfurization: Sustainability interplays of biochar application. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 157, 112053	16.2	6
188	MicroNano Magnetite-Loaded Biochar Enhances Interspecies Electron Transfer and Viability of Functional Microorganisms in Anaerobic Digestion. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 2811-2821	8.3	1
187	Microbial succession analysis reveals the significance of restoring functional microorganisms during rescue of failed anaerobic digesters by bioaugmentation of nano-biochar-amended digestate.. <i>Bioresource Technology</i> , 2022 , 127102	11	0
186	Household waste management in Singapore and Shanghai: Experiences, challenges and opportunities from the perspective of emerging megacities.. <i>Waste Management</i> , 2022 , 144, 221-232	8.6	1
185	Life cycle climate change mitigation through next-generation urban waste recovery systems in high-density Asian cities: A Singapore Case Study. <i>Resources, Conservation and Recycling</i> , 2022 , 181, 106265	11.9	0
184	Mesophilic and thermophilic anaerobic digestion of animal manure: Integrated insights from biogas productivity, microbial viability and enzymatic activity. <i>Fuel</i> , 2022 , 320, 123990	7.1	2
183	Omics approaches in bioremediation of environmental contaminants: An integrated approach for environmental safety and sustainability.. <i>Environmental Research</i> , 2022 , 113102	7.9	6
182	Valorization of poly- ϵ -hydroxybutyrate (PHB)-based bioplastic waste in anaerobic digesters of food waste for bioenergy generation: reactor performance, microbial community analysis, and bioplastic biodegradation 2022 , 1, 1		2
181	A critical review on microbes-based treatment strategies for mitigation of toxic pollutants.. <i>Science of the Total Environment</i> , 2022 , 155444	10.2	6

180	Food-waste anaerobic digestate as a fertilizer: The agronomic properties of untreated digestate and biochar-filtered digestate residue. <i>Waste Management</i> , 2021 , 136, 143-152	8.6	1
179	Trends and driving forces of low-carbon energy technology innovation in China's industrial sectors from 1998 to 2017: from a regional perspective. <i>Frontiers in Energy</i> , 2021 , 15, 473-486	2.6	8
178	Spatial characteristics and its driving factors of low-carbon energy technology innovation in China: A gravity movement and exploratory spatial data analysis. <i>Journal of Cleaner Production</i> , 2021 , 295, 126481	10.3	9
177	Evaluating the potential of okara-derived black soldier fly larval frass as a soil amendment. <i>Journal of Environmental Management</i> , 2021 , 286, 112163	7.9	10
176	Enhancement of methanogenic performance by gasification biochar on anaerobic digestion. <i>Bioresource Technology</i> , 2021 , 330, 124993	11	16
175	Biochar enhanced high-solid mesophilic anaerobic digestion of food waste: Cell viability and methanogenic pathways. <i>Chemosphere</i> , 2021 , 272, 129863	8.4	21
174	Food waste treating by biochar-assisted high-solid anaerobic digestion coupled with steam gasification: Enhanced bioenergy generation and porous biochar production. <i>Bioresource Technology</i> , 2021 , 331, 125051	11	9
173	Applications of food waste-derived black soldier fly larval frass as incorporated compost, side-dress fertilizer and frass-tea drench for soilless cultivation of leafy vegetables in biochar-based growing media. <i>Waste Management</i> , 2021 , 130, 155-166	8.6	6
172	Microbial biodiesel production from industrial organic wastes by oleaginous microorganisms: Current status and prospects. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123543	12.8	24
171	Multi-task prediction and optimization of hydrochar properties from high-moisture municipal solid waste: Application of machine learning on waste-to-resource. <i>Journal of Cleaner Production</i> , 2021 , 278, 123928	10.3	34
170	Internal enhancement mechanism of biochar with graphene structure in anaerobic digestion: The bioavailability of trace elements and potential direct interspecies electron transfer. <i>Chemical Engineering Journal</i> , 2021 , 406, 126833	14.7	31
169	Assessment and optimization of a decentralized food-waste-to-energy system with anaerobic digestion and CHP for energy utilization. <i>Energy Conversion and Management</i> , 2021 , 228, 113654	10.6	12
168	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021 , 757, 143820	10.2	43
167	Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. <i>Sustainable Environment</i> , 2021 , 7, 1945282		1
166	Influence of wet oxidation pretreatment with hydrogen peroxide and addition of clarified manure on anaerobic digestion of oil palm empty fruit bunches. <i>Bioresource Technology</i> , 2021 , 332, 125033	11	5
165	Mixing effects on decentralized high-solid digester for horticultural waste: Startup, operation and sensitive microorganisms. <i>Bioresource Technology</i> , 2021 , 333, 125216	11	4
164	Biochar utilisation in the anaerobic digestion of food waste for the creation of a circular economy via biogas upgrading and digestate treatment. <i>Bioresource Technology</i> , 2021 , 333, 125190	11	14
163	Metal and metal(oids) removal efficiency using genetically engineered microbes: Applications and challenges. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125855	12.8	13

162	Two-Stage Fermentation of for Production of Microbial Lipids and Biodiesel. <i>Microorganisms</i> , 2021 , 9,	4.9	1
161	Timing of biochar dosage for anaerobic digestion treating municipal leachate: Altered conversion pathways of volatile fatty acids. <i>Bioresource Technology</i> , 2021 , 335, 125283	11	11
160	System integration of hydrothermal liquefaction and anaerobic digestion for wet biomass valorization: Biodegradability and microbial syntrophy. <i>Journal of Environmental Management</i> , 2021 , 293, 112981	7.9	4
159	Current status of biogas upgrading for direct biomethane use: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111343	16.2	36
158	Effects of plastics on reactor performance and microbial communities during acidogenic fermentation of food waste for production of volatile fatty acids. <i>Bioresource Technology</i> , 2021 , 337, 125481	11	4
157	Life cycle assessment of food waste to energy and resources: Centralized and decentralized anaerobic digestion with different downstream biogas utilization. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111489	16.2	10
156	A Mini-Review on In situ Biogas Upgrading Technologies via Enhanced Hydrogenotrophic Methanogenesis to Improve the Quality of Biogas From Anaerobic Digesters. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	7
155	The microbiome driving anaerobic digestion and microbial analysis. <i>Advances in Bioenergy</i> , 2020 , 5, 1-61	3.9	24
154	Fuel properties of hydrochar and pyrochar: Prediction and exploration with machine learning. <i>Applied Energy</i> , 2020 , 269, 115166	10.7	42
153	Effects of activated carbon on mesophilic and thermophilic anaerobic digestion of food waste: Process performance and life cycle assessment. <i>Chemical Engineering Journal</i> , 2020 , 399, 125757	14.7	21
152	Sustainability assessment: focusing on different technologies recovering energy from waste 2020 , 235-264		2
151	Biochar enhanced thermophilic anaerobic digestion of food waste: Focusing on biochar particle size, microbial community analysis and pilot-scale application. <i>Energy Conversion and Management</i> , 2020 , 209, 112654	10.6	61
150	Methanogenic pathway and microbial succession during start-up and stabilization of thermophilic food waste anaerobic digestion with biochar. <i>Bioresource Technology</i> , 2020 , 314, 123751	11	42
149	Characterization of Soluble Algal Products (SAPs) after electrocoagulation of a mixed algal culture. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 25, e00433	5.3	8
148	Methane yield enhancement of mesophilic and thermophilic anaerobic co-digestion of algal biomass and food waste using algal biochar: Semi-continuous operation and microbial community analysis. <i>Bioresource Technology</i> , 2020 , 302, 122892	11	40
147	Closing the food waste loop: Food waste anaerobic digestate as fertilizer for the cultivation of the leafy vegetable, xiao bai cai (<i>Brassica rapa</i>). <i>Science of the Total Environment</i> , 2020 , 715, 136789	10.2	39
146	Optimization of bioaugmentation of the anaerobic digestion of <i>Axonopus compressus</i> cowgrass for the production of biomethane. <i>Journal of Cleaner Production</i> , 2020 , 258, 120932	10.3	14
145	Acidogenic fermentation of food waste for production of volatile fatty acids: Bacterial community analysis and semi-continuous operation. <i>Waste Management</i> , 2020 , 109, 75-84	8.6	28

144	Integrating food waste sorting system with anaerobic digestion and gasification for hydrogen and methane co-production. <i>Applied Energy</i> , 2020 , 257, 113988	10.7	32
143	Recovery of Nitrogen and Phosphorus Nutrition from Anaerobic Digestate by Natural Superabsorbent Fiber-Based Adsorbent and Reusing as an Environmentally Friendly Slow-Release Fertilizer for Horticultural Plants. <i>Waste and Biomass Valorization</i> , 2020 , 11, 5223-5237	3.2	5
142	Improving methane yield of oil palm empty fruit bunches by wet oxidation pretreatment: Mesophilic and thermophilic anaerobic digestion conditions and the associated global warming potential effects. <i>Energy Conversion and Management</i> , 2020 , 225, 113438	10.6	17
141	The bio-chemical cycle of iron and the function induced by ZVI addition in anaerobic digestion: A review. <i>Water Research</i> , 2020 , 186, 116405	12.5	36
140	Porous organic cages as synthetic water channels. <i>Nature Communications</i> , 2020 , 11, 4927	17.4	17
139	Effect of seed sludge source and start-up strategy on the performance and microbial communities of thermophilic anaerobic digestion of food waste. <i>Energy</i> , 2020 , 203, 117922	7.9	7
138	Integrating gravity settler with an algal membrane photobioreactor for in situ biomass concentration and harvesting. <i>Bioresource Technology</i> , 2020 , 315, 123822	11	3
137	Highly efficient anaerobic co-digestion of food waste and horticultural waste using a three-stage thermophilic bioreactor: Performance evaluation, microbial community analysis, and energy balance assessment. <i>Energy Conversion and Management</i> , 2020 , 223, 113290	10.6	6
136	Investigating the Mechanisms of AquaporinZ Reconstitution through Polymeric Vesicle Composition for a Biomimetic Membrane. <i>Polymers</i> , 2020 , 12,	4.5	1
135	Analysis of the Gravity Movement and Decoupling State of China's CO ₂ Emission Embodied in Fixed Capital Formation. <i>Energies</i> , 2020 , 13, 6655	3.1	0
134	Kinetic study of nutrients removal from municipal wastewater by in photobioreactor supplied with CO-enriched air. <i>Environmental Technology (United Kingdom)</i> , 2020 , 41, 617-626	2.6	5
133	Mixing strategies - Activated carbon nexus: Rapid start-up of thermophilic anaerobic digestion with the mesophilic anaerobic sludge as inoculum. <i>Bioresource Technology</i> , 2020 , 310, 123401	11	11
132	A comparative life cycle assessment on mono- and co-digestion of food waste and sewage sludge. <i>Energy Procedia</i> , 2019 , 158, 4166-4171	2.3	8
131	Effects of mixing time on methane production from anaerobic co-digestion of food waste and chicken manure: Experimental studies and CFD analysis. <i>Bioresource Technology</i> , 2019 , 294, 122177	11	16
130	Effects of activated carbon on anaerobic digestion [Methanogenic metabolism, mechanisms of antibiotics and antibiotic resistance genes removal. <i>Bioresource Technology Reports</i> , 2019 , 5, 113-120	4.1	26
129	Mesophilic and thermophilic anaerobic digestion of soybean curd residue for methane production: Characterizing bacterial and methanogen communities and their correlations with organic loading rate and operating temperature. <i>Bioresource Technology</i> , 2019 , 288, 121597	11	40
128	Toward a Better Understanding of the Nature-Inspired Aquaporin Biomimetic Membrane. <i>Langmuir</i> , 2019 , 35, 7285-7293	4	9
127	Three-stage anaerobic co-digestion of food waste and waste activated sludge: Identifying bacterial and methanogenic archaeal communities and their correlations with performance parameters. <i>Bioresource Technology</i> , 2019 , 285, 121333	11	14

126	Optimizing mixing strategy to improve the performance of an anaerobic digestion waste-to-energy system for energy recovery from food waste. <i>Applied Energy</i> , 2019 , 249, 28-36	10.7	47
125	A fluorescence-displacement assay using molecularly imprinted polymers for the visual, rapid, and sensitive detection of the algal metabolites, geosmin and 2-methylisoborneol. <i>Analytica Chimica Acta</i> , 2019 , 1066, 121-130	6.6	11
124	Specific purification of a single protein from a cell broth mixture using molecularly imprinted membranes for the biopharmaceutical industry.. <i>RSC Advances</i> , 2019 , 9, 23425-23434	3.7	4
123	Organic waste to biohydrogen: A critical review from technological development and environmental impact analysis perspective. <i>Applied Energy</i> , 2019 , 256, 113961	10.7	60
122	Electro-separation of microalgal culture from wastewater. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019 , 22, 101402	4.2	1
121	Synergistic assembly of peptide amphiphiles with varying polarities for encapsulation of camptothecin. <i>Materialia</i> , 2019 , 8, 100516	3.2	3
120	Wastewater treatment and microbial community dynamics in a sequencing batch reactor operating under photosynthetic aeration. <i>Chemosphere</i> , 2019 , 215, 893-903	8.4	18
119	A macromolecular approach to eradicate multidrug resistant bacterial infections while mitigating drug resistance onset. <i>Nature Communications</i> , 2018 , 9, 917	17.4	186
118	Overall evaluation of microwave-assisted alkali pretreatment for enhancement of biomethane production from brewers spent grain. <i>Energy Conversion and Management</i> , 2018 , 158, 315-326	10.6	26
117	Model-based downdraft biomass gasifier operation and design for synthetic gas production. <i>Journal of Cleaner Production</i> , 2018 , 178, 476-493	10.3	44
116	A hybrid biological and thermal waste-to-energy system with heat energy recovery and utilization for solid organic waste treatment. <i>Energy</i> , 2018 , 152, 214-222	7.9	23
115	Two-stage anaerobic digestion of food waste and horticultural waste in high-solid system. <i>Applied Energy</i> , 2018 , 209, 400-408	10.7	80
114	Carbon-dioxide biofixation and phycoremediation of municipal wastewater using <i>Chlorella vulgaris</i> and <i>Scenedesmus obliquus</i> . <i>Environmental Science and Pollution Research</i> , 2018 , 25, 20399-20406	5.1	30
113	Integration of high-solid digestion and gasification to dispose horticultural waste and chicken manure. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 1145-1151	3.2	9
112	Monitoring of microbial communities in anaerobic digestion sludge for biogas optimisation. <i>Waste Management</i> , 2018 , 71, 334-341	8.6	31
111	Controlling injectability and in vivo stability of thermogelling copolymers for delivery of yttrium-90 through intra-tumoral injection for potential brachytherapy. <i>Biomaterials</i> , 2018 , 180, 163-172	15.6	12
110	Effects of disposable plastics and wooden chopsticks on the anaerobic digestion of food waste. <i>Waste Management</i> , 2018 , 79, 607-614	8.6	12
109	A comparative life cycle assessment on four waste-to-energy scenarios for food waste generated in eateries. <i>Applied Energy</i> , 2018 , 225, 1143-1157	10.7	68

108	CO ₂ -assisted removal of nutrients from municipal wastewater by microalgae <i>Chlorella vulgaris</i> and <i>Scenedesmus obliquus</i> . <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 2183-2192	3.3	9
107	Experimental and computational studies of oxygen transport in a Taylor-Couette bioreactor. <i>Chemical Engineering Journal</i> , 2018 , 334, 1954-1964	14.7	7
106	Evaluating the effects of activated carbon on methane generation and the fate of antibiotic resistant genes and class I integrons during anaerobic digestion of solid organic wastes. <i>Bioresource Technology</i> , 2018 , 249, 729-736	11	37
105	Harvest green energy through energy recovery from waste: A technology review and an assessment of Singapore. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 98, 163-178	16.2	29
104	Environmental impact comparison of four options to treat the cellulosic fraction of municipal solid waste (CF-MSW) in green megacities. <i>Waste Management</i> , 2018 , 78, 677-685	8.6	10
103	Enhancement of biogas production in anaerobic co-digestion of food waste and waste activated sludge by biological co-pretreatment. <i>Energy</i> , 2017 , 137, 479-486	7.9	85
102	Anaerobic digestion and gasification hybrid system for potential energy recovery from yard waste and woody biomass. <i>Energy</i> , 2017 , 124, 133-145	7.9	38
101	Fabrication of ultrasound-responsive microbubbles via coaxial electrohydrodynamic atomization for triggered release of tPA. <i>Journal of Colloid and Interface Science</i> , 2017 , 501, 282-293	9.3	21
100	Three-stage anaerobic co-digestion of food waste and horse manure. <i>Scientific Reports</i> , 2017 , 7, 1269	4.9	55
99	Energy performance of an integrated bio-and-thermal hybrid system for lignocellulosic biomass waste treatment. <i>Bioresource Technology</i> , 2017 , 228, 77-88	11	41
98	Variation of household electricity consumption and potential impact of outdoor PM _{2.5} concentration: A comparison between Singapore and Shanghai. <i>Applied Energy</i> , 2017 , 188, 475-484	10.7	18
97	Techno-economic and greenhouse gas savings assessment of decentralized biomass gasification for electrifying the rural areas of Indonesia. <i>Applied Energy</i> , 2017 , 208, 495-510	10.7	46
96	Quantification of Aquaporin-Z reconstituted into vesicles for biomimetic membrane fabrication. <i>Scientific Reports</i> , 2017 , 7, 11565	4.9	8
95	Enhanced anaerobic digestion of food waste by adding activated carbon: Fate of bacterial pathogens and antibiotic resistance genes. <i>Biochemical Engineering Journal</i> , 2017 , 128, 19-25	4.2	46
94	Metagenomic insight into the microbial networks and metabolic mechanism in anaerobic digesters for food waste by incorporating activated carbon. <i>Scientific Reports</i> , 2017 , 7, 11293	4.9	33
93	Acclimatization of a mixed-animal manure inoculum to the anaerobic digestion of <i>Axonopus compressus</i> reveals the putative importance of <i>Mesotoga infera</i> and <i>Methanosaeta concilii</i> as elucidated by DGGE and Illumina MiSeq. <i>Bioresource Technology</i> , 2017 , 245, 1148-1154	11	29
92	Enzyme-Induced Matrix Softening Regulates Hepatocarcinoma Cancer Cell Phenotypes. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700117	5.5	7
91	Coaxial electrohydrodynamic atomization toward large scale production of core-shell structured microparticles. <i>AIChE Journal</i> , 2017 , 63, 5303-5319	3.6	11

90	Preparation of tPA-loaded microbubbles as potential theranostic agents: A novel one-step method via coaxial electrohydrodynamic atomization technique. <i>Chemical Engineering Journal</i> , 2017 , 307, 168-180	14.7	13
89	Chemically treated carbon black waste and its potential applications. <i>Journal of Hazardous Materials</i> , 2017 , 321, 62-72	12.8	40
88	Toxicity assessment of carbon black waste: A by-product from oil refineries. <i>Journal of Hazardous Materials</i> , 2017 , 321, 600-610	12.8	21
87	Three-stage anaerobic digester for food waste. <i>Applied Energy</i> , 2017 , 194, 287-295	10.7	86
86	On the association between outdoor PM concentration and the seasonality of tuberculosis for Beijing and Hong Kong. <i>Environmental Pollution</i> , 2016 , 218, 1170-1179	9.3	55
85	Comparison of the co-gasification of sewage sludge and food wastes and cost-benefit analysis of gasification- and incineration-based waste treatment schemes. <i>Bioresource Technology</i> , 2016 , 218, 595-605	11.7	80
84	Potential application of gasification to recycle food waste and rehabilitate acidic soil from secondary forests on degraded land in Southeast Asia. <i>Journal of Environmental Management</i> , 2016 , 172, 40-8	7.9	49
83	Computational study of core-shell droplet formation in coaxial electrohydrodynamic atomization process. <i>AIChE Journal</i> , 2016 , 62, 4259-4276	3.6	21
82	Rapid toxicity screening of gasification ashes. <i>Waste Management</i> , 2016 , 50, 93-104	8.6	15
81	Control of CO ₂ input conditions during outdoor culture of <i>Chlorella vulgaris</i> in bubble column photobioreactors. <i>Bioresource Technology</i> , 2015 , 186, 238-245	11	24
80	pH-Controlled Hierarchical Self-Assembly of Peptide Amphiphile. <i>Macromolecules</i> , 2015 , 48, 2647-2653	5.5	59
79	A comprehensive review on operating parameters and different pretreatment methodologies for anaerobic digestion of municipal solid waste. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 142-154	16.2	237
78	Coaxial electrohydrodynamic atomization: microparticles for drug delivery applications. <i>Journal of Controlled Release</i> , 2015 , 205, 70-82	11.7	65
77	Energy matching and optimization analysis of waste to energy CCHP (combined cooling, heating and power) system with exergy and energy level. <i>Energy</i> , 2015 , 79, 522-535	7.9	43
76	Co-gasification of woody biomass and sewage sludge in a fixed-bed downdraft gasifier. <i>AIChE Journal</i> , 2015 , 61, 2508-2521	3.6	95
75	Co-gasification of sewage sludge and woody biomass in a fixed-bed downdraft gasifier: toxicity assessment of solid residues. <i>Waste Management</i> , 2015 , 36, 241-55	8.6	24
74	Regulation of Aquaporin Z osmotic permeability in ABA tri-block copolymer. <i>AIMS Biophysics</i> , 2015 , 2, 381-397	0.8	6
73	The interactions between <i>Chlorella vulgaris</i> and algal symbiotic bacteria under photoautotrophic and photoheterotrophic conditions. <i>Journal of Applied Phycology</i> , 2014 , 26, 1483-1492	3.2	62

72	An immersed hollow fiber membrane bioreactor for enhanced biotransformation of indene to cis-indandiol using <i>Pseudomonas putida</i> . <i>Biochemical Engineering Journal</i> , 2014 , 87, 1-7	4.2	2
71	Molecular interaction, gas transport properties and plasticization behavior of cPIM-1/Torlon blend membranes. <i>Journal of Membrane Science</i> , 2014 , 462, 119-130	9.6	56
70	Co-delivery of thioridazine and doxorubicin using polymeric micelles for targeting both cancer cells and cancer stem cells. <i>Biomaterials</i> , 2014 , 35, 1096-108	15.6	145
69	A mechanistic study on amphiphilic block co-polymer poly(butadiene-b-(ethylene oxide)) vesicles reveals the water permeation mechanism through a polymeric bilayer. <i>RSC Advances</i> , 2014 , 4, 15304-15313	3.7	6
68	Thermodynamic performance assessment of CCHP system driven by different composition gas. <i>Applied Energy</i> , 2014 , 136, 599-610	10.7	25
67	Brush-like polycarbonates containing dopamine, cations, and PEG providing a broad-spectrum, antibacterial, and antifouling surface via one-step coating. <i>Advanced Materials</i> , 2014 , 26, 7346-51	24	185
66	Cell-microsphere constructs formed with human adipose-derived stem cells and gelatin microspheres promotes stemness, differentiation, and controlled pro-angiogenic potential. <i>Macromolecular Bioscience</i> , 2014 , 14, 1458-68	5.5	18
65	Immobilization of growing <i>Sphingomonas</i> sp. HXN-200 to gelatin microspheres: efficient biotransformation of N-Cbz-pyrrolidine and N-Boc-pyrrolidine into hydroxypyrrolidine derivatives. <i>Journal of Biotechnology</i> , 2014 , 182-183, 74-82	3.7	5
64	Delivery of therapeutics and molecules using self-assembled peptides. <i>Current Medicinal Chemistry</i> , 2014 , 21, 2469-79	4.3	20
63	High performance PIM-1/Matrimid hollow fiber membranes for CO ₂ /CH ₄ , O ₂ /N ₂ and CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2013 , 443, 156-169	9.6	105
62	Protein adsorption behavior in batch and competitive conditions with nanoparticle surface imprinting. <i>RSC Advances</i> , 2013 , 3, 1519-1527	3.7	17
61	Biodegradable Broad-Spectrum Antimicrobial Polycarbonates: Investigating the Role of Chemical Structure on Activity and Selectivity. <i>Macromolecules</i> , 2013 , 46, 8797-8807	5.5	100
60	Highly permeable chemically modified PIM-1/Matrimid membranes for green hydrogen purification. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13914	13	79
59	Mechanically robust and highly permeable AquaporinZ biomimetic membranes. <i>Journal of Membrane Science</i> , 2013 , 434, 130-136	9.6	79
58	Study on water transport through a mechanically robust Aquaporin Z biomimetic membrane. <i>Journal of Membrane Science</i> , 2013 , 445, 47-52	9.6	18
57	Preventing viral infections with polymeric virus catchers: a novel nanotechnological approach to anti-viral therapy. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2031-2037	7.3	27
56	Control of IgG LC:HC ratio in stably transfected CHO cells and study of the impact on expression, aggregation, glycosylation and conformational stability. <i>Journal of Biotechnology</i> , 2013 , 165, 157-66	3.7	57
55	An aquaporin-based vesicle-embedded polymeric membrane for low energy water filtration. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7592	13	110

54	Generation of Cell-Instructive Collagen Gels through Thermodynamic Control. <i>ACS Macro Letters</i> , 2013 , 2, 1077-1081	6.6	7
53	Access to different nanostructures via self-assembly of thiourea-containing PEGylated amphiphiles. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 652-8	4.8	12
52	Generation of monoclonal antibody-producing mammalian cell lines. <i>Pharmaceutical Bioprocessing</i> , 2013 , 1, 71-87		29
51	Comparison of internal ribosome entry site (IRES) and Furin-2A (F2A) for monoclonal antibody expression level and quality in CHO cells. <i>PLoS ONE</i> , 2013 , 8, e63247	3.7	40
50	Molecular engineering of PIM-1/Matrimid blend membranes for gas separation. <i>Journal of Membrane Science</i> , 2012 , 407-408, 47-57	9.6	151
49	IRES-mediated Tricistronic vectors for enhancing generation of high monoclonal antibody expressing CHO cell lines. <i>Journal of Biotechnology</i> , 2012 , 157, 130-9	3.7	112
48	Highly permeable and selective pore-spanning biomimetic membrane embedded with aquaporin Z. <i>Small</i> , 2012 , 8, 1185-90, 1125	11	140
47	Highly Permeable and Selective Pore-Spanning Biomimetic Membrane Embedded with Aquaporin Z. <i>Small</i> , 2012 , 8, 1969-1969	11	6
46	PHBV microspheres as neural tissue engineering scaffold support neuronal cell growth and axon-dendrite polarization. <i>Acta Biomaterialia</i> , 2012 , 8, 540-8	10.8	65
45	A cell-instructive hydrogel to regulate malignancy of 3D tumor spheroids with matrix rigidity. <i>Biomaterials</i> , 2011 , 32, 9308-15	15.6	117
44	Mechanisms and promotion of 3D neurite bridging between PHBV microspheres in a microsphere-hydrogel hybrid scaffold. <i>Soft Matter</i> , 2011 , 7, 11372	3.6	6
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