

Yen Wah Tong

List of Publications by Citations

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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	Electro-spinning of pure collagen nano-fibres - just an expensive way to make gelatin?. <i>Biomaterials</i> , 2008 , 29, 2293-305	15.6	472
196	Effect of PEG conformation and particle size on the cellular uptake efficiency of nanoparticles with the HepG2 cells. <i>Journal of Controlled Release</i> , 2007 , 118, 7-17	11.7	285
195	Incorporation and in vitro release of doxorubicin in thermally sensitive micelles made from poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide)-b-poly(D,L-lactide-co-glycolide) with varying compositions. <i>Biomaterials</i> , 2005 , 26, 5064-74	15.6	246
194	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 ²	16.2	237
193	Properties of a new root-end filling material. <i>Journal of Endodontics</i> , 2005 , 31, 665-8	4.7	196
192	Preparation of bovine serum albumin surface-imprinted submicrometer particles with magnetic susceptibility through core-shell miniemulsion polymerization. <i>Analytical Chemistry</i> , 2008 , 80, 683-92	7.8	191
191	A macromolecular approach to eradicate multidrug resistant bacterial infections while mitigating drug resistance onset. <i>Nature Communications</i> , 2018 , 9, 917	17.4	186
190	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
189	Self-assembled oligopeptide nanostructures for co-delivery of drug and gene with synergistic therapeutic effect. <i>Biomaterials</i> , 2009 , 30, 3100-9	15.6	181
188	Bio-functional micelles self-assembled from a folate-conjugated block copolymer for targeted intracellular delivery of anticancer drugs. <i>Biomaterials</i> , 2007 , 28, 1423-33	15.6	177
187	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
186	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
185	Highly permeable and selective pore-spanning biomimetic membrane embedded with aquaporin Z. <i>Small</i> , 2012 , 8, 1185-90, 1125	11	140
184	Preparation of superparamagnetic ribonuclease A surface-imprinted submicrometer particles for protein recognition in aqueous media. <i>Analytical Chemistry</i> , 2007 , 79, 299-306	7.8	122
183	A cell-instructive hydrogel to regulate malignancy of 3D tumor spheroids with matrix rigidity. <i>Biomaterials</i> , 2011 , 32, 9308-15	15.6	117
182	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
181	An aquaporin-based vesicle-embedded polymeric membrane for low energy water filtration. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7592	13	110

180	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
179	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
178	Molecularly imprinted beads by surface imprinting. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 369-76	4.4	96
177	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
176	Self-assembly of collagen-mimetic peptide amphiphiles into biofunctional nanofiber. <i>ACS Nano</i> , 2011 , 5, 7739-47	16.7	91
175	Three-stage anaerobic digester for food waste. <i>Applied Energy</i> , 2017 , 194, 287-295	10.7	86
174	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
173	Enhancing the neuronal interaction on fluoropolymer surfaces with mixed peptides or spacer group linkers. <i>Biomaterials</i> , 2001 , 22, 1029-34	15.6	85
172	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
171	Comparison of the co-gasification of sewage sludge and food wastes and cost-benefit analysis of gasification- and incineration-based waste treatment schemes. <i>Bioresour. Technol.</i> , 2016 , 218, 595-605	11	80
170	Defining the Interactions between Proteins and Surfactants for Nanoparticle Surface Imprinting through Miniemulsion Polymerization. <i>Chemistry of Materials</i> , 2008 , 20, 118-127	9.6	80
169	Highly permeable chemically modified PIM-1/Matrimid membranes for green hydrogen purification. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13914	13	79
168	Mechanically robust and highly permeable AquaporinZ biomimetic membranes. <i>Journal of Membrane Science</i> , 2013 , 434, 130-136	9.6	79
167	Selective adsorption behaviors of proteins on polypyrrole-based adsorbents. <i>Separation and Purification Technology</i> , 2006 , 52, 161-169	8.3	76
166	The effect of protein structural conformation on nanoparticle molecular imprinting of ribonuclease A using miniemulsion polymerization. <i>Langmuir</i> , 2007 , 23, 2722-30	4	75
165	Thermoresponsive comb-shaped copolymer-Si(100) hybrids for accelerated temperature-dependent cell detachment. <i>Biomaterials</i> , 2006 , 27, 1236-45	15.6	75
164	Preparation and characterization of temperature-sensitive poly(N-isopropylacrylamide)-b-poly(D,L-lactide) microspheres for protein delivery. <i>Biomacromolecules</i> , 2003 , 4, 1784-93	6.9	70
163	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

162	Characterization of porous poly(D,L-lactic-co-glycolic acid) sponges fabricated by supercritical CO ₂ gas-foaming method as a scaffold for three-dimensional growth of Hep3B cells. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 998-1009	4.9	66
161	Coaxial electrohydrodynamic atomization: microparticles for drug delivery applications. <i>Journal of Controlled Release</i> , 2015 , 205, 70-82	11.7	65
160	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
159	Preparation and characterization of pore-suspending biomimetic membranes embedded with Aquaporin Z on carboxylated polyethylene glycol polymer cushion. <i>Soft Matter</i> , 2011 , 7, 7274	3.6	64
158	Thermally sensitive micelles self-assembled from poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide)-b-poly(D,L-lactide-co-glycolide) for controlled delivery of paclitaxel. <i>Molecular BioSystems</i> , 2005 , 1, 158-65		64
157	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
156	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
155	In vitro characterization of hepatocyte growth factor release from PHBV/PLGA microsphere scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 411-23	5.4	61
154	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
153	Self-assembled Cationic Peptide Nanoparticles Capable of Inducing Efficient Gene Expression In Vitro. <i>Advanced Functional Materials</i> , 2008 , 18, 943-951	15.6	60
152	pH-Controlled Hierarchical Self-Assembly of Peptide Amphiphile. <i>Macromolecules</i> , 2015 , 48, 2647-2653	5.5	59
151	Enzymatically crosslinked collagen-mimetic dendrimers that promote integrin-targeted cell adhesion. <i>Biomaterials</i> , 2008 , 29, 3034-45	15.6	58
150	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
149	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
148	Three-stage anaerobic co-digestion of food waste and horse manure. <i>Scientific Reports</i> , 2017 , 7, 1269	4.9	55
147	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
146	Peptide surface modification of poly(tetrafluoroethylene-co-hexafluoropropylene) enhances its interaction with central nervous system neurons. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 85-95		52
145	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

144	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
143	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
142	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
141	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
140	Delivery of basic fibroblast growth factor from gelatin microsphere scaffold for the growth of human umbilical vein endothelial cells. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1939-47	3.9	44
139	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
138	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021 , 757, 143820	10.2	43
137	Fuel properties of hydrochar and pyrochar: Prediction and exploration with machine learning. <i>Applied Energy</i> , 2020 , 269, 115166	10.7	42
136	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
135	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
134	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
133	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
132	Chemically treated carbon black waste and its potential applications. <i>Journal of Hazardous Materials</i> , 2017 , 321, 62-72	12.8	40
131	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
130	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
129	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
128	Growing tissue-like constructs with Hep3B/HepG2 liver cells on PHBV microspheres of different sizes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 82, 7-16	3.5	38
127	Collagen-coupled poly(2-hydroxyethyl methacrylate)-Si(111) hybrid surfaces for cell immobilization. <i>Tissue Engineering</i> , 2005 , 11, 1736-48		37

126	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
125	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
124	Current status of biogas upgrading for direct biomethane use: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111343	16.2	36
123	Proteins combination on PHBV microsphere scaffold to regulate Hep3B cells activity and functionality: a model of liver tissue engineering system. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 606-16	5.4	35
122	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
121	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
120	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
119	Monitoring of microbial communities in anaerobic digestion sludge for biogas optimisation. <i>Waste Management</i> , 2018 , 71, 334-341	8.6	31
118	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
117	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
116	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
115	Generation of monoclonal antibody-producing mammalian cell lines. <i>Pharmaceutical Bioprocessing</i> , 2013 , 1, 71-87		29
114	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
113	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
112	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
111	Fabricating tissue engineering scaffolds for simultaneous cell growth and drug delivery. <i>Current Pharmaceutical Design</i> , 2010 , 16, 2388-94	3.3	27
110	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
109	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

108	Template-assembled triple-helical peptide molecules: mimicry of collagen by molecular architecture and integrin-specific cell adhesion. <i>Biochemistry</i> , 2008 , 47, 585-96	3.2	26
107	Thermodynamic performance assessment of CCHP system driven by different composition gas. <i>Applied Energy</i> , 2014 , 136, 599-610	10.7	25
106	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
105	The microbiome driving anaerobic digestion and microbial analysis. <i>Advances in Bioenergy</i> , 2020 , 5, 1-61	3.9	24
104	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
103	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
102	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
101	An integrin-specific collagen-mimetic peptide approach for optimizing Hep3B liver cell adhesion, proliferation, and cellular functions. <i>Tissue Engineering</i> , 2007 , 13, 2451-63		22
100	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
99	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
98	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
97	Tuning the non-equilibrium state of a drug-encapsulated poly(ethylene glycol) hydrogel for stem and progenitor cell mobilization. <i>Biomaterials</i> , 2011 , 32, 2004-12	15.6	21
96	The specific recognition of a cell binding sequence derived from type I collagen by Hep3B and L929 cells. <i>Biomacromolecules</i> , 2007 , 8, 3153-61	6.9	21
95	Biochar enhanced high-solid mesophilic anaerobic digestion of food waste: Cell viability and methanogenic pathways. <i>Chemosphere</i> , 2021 , 272, 129863	8.4	21
94	Computational study of core-shell droplet formation in coaxial electrohydrodynamic atomization process. <i>AIChE Journal</i> , 2016 , 62, 4259-4276	3.6	21
93	Delivery of therapeutics and molecules using self-assembled peptides. <i>Current Medicinal Chemistry</i> , 2014 , 21, 2469-79	4.3	20
92	Design and evaluation of Peptide amphiphiles with different hydrophobic blocks for simultaneous delivery of drugs and genes. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1212-7	4.8	19
91	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

90	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
89	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
88	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
87	Protein adsorption behavior in batch and competitive conditions with nanoparticle surface imprinting. <i>RSC Advances</i> , 2013 , 3, 1519-1527	3.7	17
86	Enhancing the interaction of central nervous system neurons with poly(tetrafluoroethylene-co-hexafluoropropylene) via a novel surface amine-functionalization reaction followed by peptide modification. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998 , 9, 713-29	3.5	17
85	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
84	Porous organic cages as synthetic water channels. <i>Nature Communications</i> , 2020 , 11, 4927	17.4	17
83	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
82	Lysine-based peptide-functionalized PLGA foams for controlled DNA delivery. <i>Journal of Controlled Release</i> , 2009 , 138, 64-70	11.7	16
81	Enhancement of methanogenic performance by gasification biochar on anaerobic digestion. <i>Bioresource Technology</i> , 2021 , 330, 124993	11	16
80	Rapid toxicity screening of gasification ashes. <i>Waste Management</i> , 2016 , 50, 93-104	8.6	15
79	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
78	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
77	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
76	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
75	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
74	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
73	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

72	Access to different nanostructures via self-assembly of thiourea-containing PEGylated amphiphiles. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 652-8	4.8	12
71	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
70	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
69	Coaxial electrohydrodynamic atomization toward large scale production of core-shell structured microparticles. <i>AIChE Journal</i> , 2017 , 63, 5303-5319	3.6	11
68	Defining the Surface Chemistry of Ammonia-Modified Poly(tetrafluoroethylene-co-hexafluoropropylene) Films. <i>Macromolecules</i> , 1999 , 32, 3464-3468	5.5	11
67	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
66	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
65	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
64	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
63	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
62	Toward a Better Understanding of the Nature-Inspired Aquaporin Biomimetic Membrane. <i>Langmuir</i> , 2019 , 35, 7285-7293	4	9
61	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
60	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
59	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
58	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
57	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
56	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
55	Quantification of Aquaporin-Z reconstituted into vesicles for biomimetic membrane fabrication. <i>Scientific Reports</i> , 2017 , 7, 11565	4.9	8

54	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
53	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
52	Enzyme-Induced Matrix Softening Regulates Hepatocarcinoma Cancer Cell Phenotypes. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700117	5.5	7
51	Generation of Cell-Instructive Collagen Gels through Thermodynamic Control. <i>ACS Macro Letters</i> , 2013 , 2, 1077-1081	6.6	7
50	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
49	Experimental and computational studies of oxygen transport in a Taylor-Couette bioreactor. <i>Chemical Engineering Journal</i> , 2018 , 334, 1954-1964	14.7	7
48	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
47	Highly Permeable and Selective Pore-Spanning Biomimetic Membrane Embedded with Aquaporin Z. <i>Small</i> , 2012 , 8, 1969-1969	11	6
46	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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