Yen Wah Tong

List of Publications by Year
in descending order

201 papers	11,309 citations	18465 62 h-index	37183 96 g-index
204 all docs	204 docs citations	204 times ranked	13083 citing authors

#	Article	IF	Citations
1	Electro-spinning of pure collagen nano-fibres â€“ Just an expensive way to make gelatin?. Biomaterials, 2008, 29, 2293-2305.	5.7	538
2	A comprehensive review on operating parameters and different pretreatment methodologies for anaerobic digestion of municipal solid waste. Renewable and Sustainable Energy Reviews, 2015, 52, 142-154.	8.2	326
3	Effect of PEG conformation and particle size on the cellular uptake efficiency of nanoparticles with the HepG2 cells. Journal of Controlled Release, 2007, 118, 7-17.	4.8	304
4	Incorporation and in vitro release of doxorubicin in thermally sensitive micelles made from poly(-isopropylacrylamide---dimethylacrylamide)--poly(,-lactide--glycolide) with varying compositions. Biomaterials, 2005, 26, 5064-5074.	5.7	266
5	A macromolecular approach to eradicate multidrug resistant bacterial infections while mitigating drug resistance onset. Nature Communications, 2018, 9, 917.	5.8	261
6	Properties of a New Root-End Filling Material. Journal of Endodontics, 2005, 31, 665-668.	1.4	231
7	Brushâ€Like Polycarbonates Containing Dopamine, Cations, and PEG Providing a Broadâ€Spectrum, Antibacterial, and Antifouling Surface via Oneâ€Step Coating. Advanced Materials, 2014, 26, 7346-7351.	11.1	227
8	Preparation of Bovine Serum Albumin Surface-Imprinted Submicrometer Particles with Magnetic Susceptibility through Coreâ^'Shell Miniemulsion Polymerization. Analytical Chemistry, 2008, 80, 683-692.	3.2	204
9	Self-assembled oligopeptide nanostructures for co-delivery of drug and gene with synergistic therapeutic effect. Biomaterials, 2009, 30, 3100-3109.	5.7	194
10	Bio-functional micelles self-assembled from a folate-conjugated block copolymer for targeted intracellular delivery of anticancer drugs. Biomaterials, 2007, 28, 1423-1433.	5.7	187
11	Molecular engineering of PIM-1/Matrimid blend membranes for gas separation. Journal of Membrane Science, 2012, 407-408, 47-57.	4.1	176
12	Co-delivery of thioridazine and doxorubicin using polymeric micelles for targeting both cancer cells and cancer stem cells. Biomaterials, 2014, 35, 1096-1108.	5.7	172
13	Highly Permeable and Selective Poreâ€Spanning Biomimetic Membrane Embedded with Aquaporin Z. Small, 2012, 8, 1185-1190.	5.2	158
14	Current status of biogas upgrading for direct biomethane use: A review. Renewable and Sustainable Energy Reviews, 2021, 149, 111343.	8.2	149
15	Fuel properties of hydrochar and pyrochar: Prediction and exploration with machine learning. Applied Energy, 2020, 269, 115166.	5.1	141
16	IRES-mediated Tricistronic vectors for enhancing generation of high monoclonal antibody expressing CHO cell lines. Journal of Biotechnology, 2012, 157, 130-139.	1.9	136
17	A cell-instructive hydrogel to regulate malignancy of 3D tumor spheroids with matrix rigidity. Biomaterials, 2011, 32, 9308-9315.	5.7	135
18	Preparation of Superparamagnetic Ribonuclease A Surface-Imprinted Submicrometer Particles for Protein Recognition in Aqueous Media. Analytical Chemistry, 2007, 79, 299-306.	3.2	129

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19	High performance PIM-1/Matrimid hollow fiber membranes for CO2/CH4, O2/N2 and CO2/N2 separation. Journal of Membrane Science, 2013, 443, 156-169.	4.1	129
20	An aquaporin-based vesicle-embedded polymeric membrane for low energy water filtration. Journal of Materials Chemistry A, 2013, 1, 7592.	5.2	125
21	Biochar enhanced thermophilic anaerobic digestion of food waste: Focusing on biochar particle size, microbial community analysis and pilot-scale application. Energy Conversion and Management, 2020, 209, 112654.	4.4	125
22	Coâ€gasification of woody biomass and sewage sludge in a fixedâ€bed downdraft gasifier. AICHE Journal, 2015, 61, 2508-2521.	1.8	122
23	Biodegradable Broad-Spectrum Antimicrobial Polycarbonates: Investigating the Role of Chemical Structure on Activity and Selectivity. Macromolecules, 2013, 46, 8797-8807.	2.2	120
24	Enhancement of biogas production in anaerobic co-digestion of food waste and waste activated sludge by biological co-pretreatment. Energy, 2017, 137, 479-486.	4.5	114
25	Organic waste to biohydrogen: A critical review from technological development and environmental impact analysis perspective. Applied Energy, 2019, 256, 113961.	5.1	111
26	Molecularly imprinted beads by surface imprinting. Analytical and Bioanalytical Chemistry, 2007, 389, 369-376.	1.9	110
27	Three-stage anaerobic digester for food waste. Applied Energy, 2017, 194, 287-295.	5.1	107
28	Comparison of the co-gasification of sewage sludge and food wastes and cost-benefit analysis of gasification- and incineration-based waste treatment schemes. Bioresource Technology, 2016, 218, 595-605.	4.8	105
29	Self-Assembly of Collagen-Mimetic Peptide Amphiphiles into Biofunctional Nanofiber. ACS Nano, 2011, 5, 7739-7747.	7.3	102
30	Two-stage anaerobic digestion of food waste and horticultural waste in high-solid system. Applied Energy, 2018, 209, 400-408.	5.1	101
31	Biochar industry to circular economy. Science of the Total Environment, 2021, 757, 143820.	3.9	100
32	A comparative life cycle assessment on four waste-to-energy scenarios for food waste generated in eateries. Applied Energy, 2018, 225, 1143-1157.	5.1	98
33	Multi-task prediction and optimization of hydrochar properties from high-moisture municipal solid waste: Application of machine learning on waste-to-resource. Journal of Cleaner Production, 2021, 278, 123928.	4.6	98
34	Highly permeable chemically modified PIM-1/Matrimid membranes for green hydrogen purification. Journal of Materials Chemistry A, 2013, 1, 13914.	5.2	97
35	Mechanically robust and highly permeable AquaporinZ biomimetic membranes. Journal of Membrane Science, 2013, 434, 130-136.	4.1	90
36	Preparation and characterization of pore-suspending biomimetic membranes embedded with Aquaporin Z on carboxylated polyethylene glycol polymer cushion. Soft Matter, 2011, 7, 7274.	1.2	89

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37	Enhancing the neuronal interaction on fluoropolymer surfaces with mixed peptides or spacer group linkers. Biomaterials, 2001, 22, 1029-1034.	5.7	88
38	The bio-chemical cycle of iron and the function induced by ZVI addition in anaerobic digestion: A review. Water Research, 2020, 186, 116405.	5.3	85
39	The interactions between Chlorella vulgaris and algal symbiotic bacteria under photoautotrophic and photoheterotrophic conditions. Journal of Applied Phycology, 2014, 26, 1483-1492.	1.5	84
40	The Effect of Protein Structural Conformation on Nanoparticle Molecular Imprinting of Ribonuclease A Using Miniemulsion Polymerization. Langmuir, 2007, 23, 2722-2730.	1.6	83
41	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. Bioresource Technology, 2020, 302, 122892.	4.8	83
42	Closing the food waste loop: Food waste anaerobic digestate as fertilizer for the cultivation of the leafy vegetable, xiao bai cai (Brassica rapa). Science of the Total Environment, 2020, 715, 136789.	3.9	83
43	Defining the Interactions between Proteins and Surfactants for Nanoparticle Surface Imprinting through Miniemulsion Polymerization. Chemistry of Materials, 2008, 20, 118-127.	3.2	82
44	pH-Controlled Hierarchical Self-Assembly of Peptide Amphiphile. Macromolecules, 2015, 48, 2647-2653.	2.2	81
45	Coaxial electrohydrodynamic atomization: Microparticles for drug delivery applications. Journal of Controlled Release, 2015, 205, 70-82.	4.8	81
46	Methanogenic pathway and microbial succession during start-up and stabilization of thermophilic food waste anaerobic digestion with biochar. Bioresource Technology, 2020, 314, 123751.	4.8	81
47	Selective adsorption behaviors of proteins on polypyrrole-based adsorbents. Separation and Purification Technology, 2006, 52, 161-169.	3.9	80
48	Thermoresponsive comb-shaped copolymer-Si(100) hybrids for accelerated temperature-dependent cell detachment. Biomaterials, 2006, 27, 1236-1245.	5.7	78
49	Internal enhancement mechanism of biochar with graphene structure in anaerobic digestion: The bioavailability of trace elements and potential direct interspecies electron transfer. Chemical Engineering Journal, 2021, 406, 126833.	6.6	78
50	Preparation and Characterization of Temperature-Sensitive Poly(N-isopropylacrylamide)-b-poly(d,l-lactide) Microspheres for Protein Delivery. Biomacromolecules, 2003, 4, 1784-1793.	2.6	77
51	PHBV microspheres as neural tissue engineering scaffold support neuronal cell growth and axonâ€“dendrite polarization. Acta Biomaterialia, 2012, 8, 540-548.	4.1	76
52	On the association between outdoor PM2.5 concentration and the seasonality of tuberculosis for Beijing and Hong Kong. Environmental Pollution, 2016, 218, 1170-1179.	3.7	75
53	Characterization of porous poly(<scp>D</scp>,<scp>L</scp>â€lacticâ€coâ€glycolic acid) sponges fabricated by supercritical CO₂ gasâ€foaming method as a scaffold for threeâ€dimensional growth of Hep3B cells. Biotechnology and Bioengineering, 2008, 100, 998-1009.	1.7	73
54	Optimizing mixing strategy to improve the performance of an anaerobic digestion waste-to-energy system for energy recovery from food waste. Applied Energy, 2019, 249, 28-36.	5.1	73

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55	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. Molecular BioSystems, 2005, 1, 158.	2.9	70
56	Control of IgG LC:HC ratio in stably transfected CHO cells and study of the impact on expression, aggregation, glycosylation and conformational stability. Journal of Biotechnology, 2013, 165, 157-166.	1.9	70
57	Molecular interaction, gas transport properties and plasticization behavior of cPIM-1/Torlon blend membranes. Journal of Membrane Science, 2014, 462, 119-130.	4.1	70
58	Three-stage anaerobic co-digestion of food waste and horse manure. Scientific Reports, 2017, 7, 1269.	1.6	69
59	Life cycle assessment of food waste to energy and resources: Centralized and decentralized anaerobic digestion with different downstream biogas utilization. Renewable and Sustainable Energy Reviews, 2021, 150, 111489.	8.2	68
60	Selfâ€assembled Cationic Peptide Nanoparticles Capable of Inducing Efficient Gene Expression In Vitro. Advanced Functional Materials, 2008, 18, 943-951.	7.8	67
61	Enzymatically crosslinked collagen-mimetic dendrimers that promote integrin-targeted cell adhesion. Biomaterials, 2008, 29, 3034-3045.	5.7	66
62	In vitro characterization of hepatocyte growth factor release from PHBV/PLGA microsphere scaffold. Journal of Biomedical Materials Research - Part A, 2009, 89A, 411-423.	2.1	66
63	Acidogenic fermentation of food waste for production of volatile fatty acids: Bacterial community analysis and semi-continuous operation. Waste Management, 2020, 109, 75-84.	3.7	62
64	Techno-economic and greenhouse gas savings assessment of decentralized biomass gasification for electrifying the rural areas of Indonesia. Applied Energy, 2017, 208, 495-510.	5.1	61
65	Peptide surface modification of poly(tetrafluoroethylene-co-hexafluoropropylene) enhances its interaction with central nervous system neurons. , 1998, 42, 85-95.		59
66	Model-based downdraft biomass gasifier operation and design for synthetic gas production. Journal of Cleaner Production, 2018, 178, 476-493.	4.6	59
67	Biochar enhanced high-solid mesophilic anaerobic digestion of food waste: Cell viability and methanogenic pathways. Chemosphere, 2021, 272, 129863.	4.2	59
68	Potential application of gasification to recycle food waste and rehabilitate acidic soil from secondary forests on degraded land in Southeast Asia. Journal of Environmental Management, 2016, 172, 40-48.	3.8	57
69	Energy matching and optimization analysis of waste to energy CCHP (combined cooling, heating and) Tj ETQq1 1 0.784314 rgBT /Ov	4.5	56
70	Enhanced anaerobic digestion of food waste by adding activated carbon: Fate of bacterial pathogens and antibiotic resistance genes. Biochemical Engineering Journal, 2017, 128, 19-25.	1.8	56
71	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. Bioresource Technology, 2019, 288, 121597.	4.8	56
72	Metagenomic insight into the microbial networks and metabolic mechanism in anaerobic digesters for food waste by incorporating activated carbon. Scientific Reports, 2017, 7, 11293.	1.6	53

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73	Chemically treated carbon black waste and its potential applications. Journal of Hazardous Materials, 2017, 321, 62-72.	6.5	53
74	Comparison of Internal Ribosome Entry Site (IRES) and Furin-2A (F2A) for Monoclonal Antibody Expression Level and Quality in CHO Cells. PLoS ONE, 2013, 8, e63247.	1.1	52
75	Integrating food waste sorting system with anaerobic digestion and gasification for hydrogen and methane co-production. Applied Energy, 2020, 257, 113988.	5.1	52
76	Energy performance of an integrated bio-and-thermal hybrid system for lignocellulosic biomass waste treatment. Bioresource Technology, 2017, 228, 77-88.	4.8	51
77	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. Bioresource Technology, 2018, 249, 729-736.	4.8	51
78	The microbiome driving anaerobic digestion and microbial analysis. Advances in Bioenergy, 2020, 5, 1-61.	0.5	50
79	Enhancement of methanogenic performance by gasification biochar on anaerobic digestion. Bioresource Technology, 2021, 330, 124993.	4.8	49
80	Anaerobic digestion and gasification hybrid system for potential energy recovery from yard waste and woody biomass. Energy, 2017, 124, 133-145.	4.5	48
81	Engineering interface between bioenergy recovery and biogas desulfurization: Sustainability interplays of biochar application. Renewable and Sustainable Energy Reviews, 2022, 157, 112053.	8.2	48
82	Harvest green energy through energy recovery from waste: A technology review and an assessment of Singapore. Renewable and Sustainable Energy Reviews, 2018, 98, 163-178.	8.2	46
83	Delivery of Basic Fibroblast Growth Factor from Gelatin Microsphere Scaffold for the Growth of Human Umbilical Vein Endothelial Cells. Tissue Engineering - Part A, 2008, 14, 1939-1947.	1.6	45
84	Microbial biodiesel production from industrial organic wastes by oleaginous microorganisms: Current status and prospects. Journal of Hazardous Materials, 2021, 402, 123543.	6.5	45
85	Effects of activated carbon on mesophilic and thermophilic anaerobic digestion of food waste: Process performance and life cycle assessment. Chemical Engineering Journal, 2020, 399, 125757.	6.6	44
86	Growing tissue-like constructs with Hep3B/HepG2 liver cells on PHBV microspheres of different sizes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 82B, 7-16.	1.6	43
87	Carbon-dioxide biofixation and phycoremediation of municipal wastewater using Chlorella vulgaris and Scenedesmus obliquus. Environmental Science and Pollution Research, 2018, 25, 20399-20406.	2.7	43
88	Porous organic cages as synthetic water channels. Nature Communications, 2020, 11, 4927.	5.8	43
89	Effects of activated carbon on anaerobic digestion â€“ Methanogenic metabolism, mechanisms of antibiotics and antibiotic resistance genes removal. Bioresource Technology Reports, 2019, 5, 113-120.	1.5	41
90	Food-waste anaerobic digestate as a fertilizer: The agronomic properties of untreated digestate and biochar-filtered digestate residue. Waste Management, 2021, 136, 143-152.	3.7	41

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91	Data-Driven Based In-Depth Interpretation and Inverse Design of Anaerobic Digestion for CH₄-Rich Biogas Production. ACS ES&T Engineering, 2022, 2, 642-652.	3.7	41
92	A hybrid biological and thermal waste-to-energy system with heat energy recovery and utilization for solid organic waste treatment. Energy, 2018, 152, 214-222.	4.5	40
93	Monitoring of microbial communities in anaerobic digestion sludge for biogas optimisation. Waste Management, 2018, 71, 334-341.	3.7	40
94	Biochar utilisation in the anaerobic digestion of food waste for the creation of a circular economy via biogas upgrading and digestate treatment. Bioresource Technology, 2021, 333, 125190.	4.8	40
95	Omics approaches in bioremediation of environmental contaminants: An integrated approach for environmental safety and sustainability. Environmental Research, 2022, 211, 113102.	3.7	40
96	Proteins combination on PHBV microsphere scaffold to regulate Hep3B cells activity and functionality: A model of liver tissue engineering system. Journal of Biomedical Materials Research - Part A, 2007, 83A, 606-616.	2.1	38
97	Assessment and optimization of a decentralized food-waste-to-energy system with anaerobic digestion and CHP for energy utilization. Energy Conversion and Management, 2021, 228, 113654.	4.4	38
98	Collagen-Coupled Poly(2-hydroxyethyl methacrylate)â€“Si(111) Hybrid Surfaces for Cell Immobilization. Tissue Engineering, 2005, 11, 1736-1748.	4.9	37
99	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. Energy Conversion and Management, 2020, 225, 113438.	4.4	35
100	Metal and metal(loids) removal efficiency using genetically engineered microbes: Applications and challenges. Journal of Hazardous Materials, 2021, 416, 125855.	6.5	35
101	Fabricating Tissue Engineering Scaffolds for Simultaneous Cell Growth and Drug Delivery. Current Pharmaceutical Design, 2010, 16, 2388-2394.	0.9	34
102	Acclimatization of a mixed-animal manure inoculum to the anaerobic digestion of Axonopus compressus reveals the putative importance of Mesotoga infera and Methanosaeta concilii as elucidated by DGGE and Illumina MiSeq. Bioresource Technology, 2017, 245, 1148-1154.	4.8	34
103	Generation of monoclonal antibody-producing mammalian cell lines. Pharmaceutical Bioprocessing, 2013, 1, 71-87.	0.8	33
104	Overall evaluation of microwave-assisted alkali pretreatment for enhancement of biomethane production from brewersâ€™ spent grain. Energy Conversion and Management, 2018, 158, 315-326.	4.4	33
105	Preventing viral infections with polymeric virus catchers: a novel nanotechnological approach to anti-viral therapy. Journal of Materials Chemistry B, 2013, 1, 2031.	2.9	31
106	The Specific Recognition of a Cell Binding Sequence Derived from Type I Collagen by Hep3B and L929 Cells. Biomacromolecules, 2007, 8, 3153-3161.	2.6	29
107	Thermodynamic performance assessment of CCHP system driven by different composition gas. Applied Energy, 2014, 136, 599-610.	5.1	29
108	Co-gasification of sewage sludge and woody biomass in a fixed-bed downdraft gasifier: Toxicity assessment of solid residues. Waste Management, 2015, 36, 241-255.	3.7	29

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109	Computational study of coreâ€shell droplet formation in coaxial electrohydrodynamic atomization process. AICHE Journal, 2016, 62, 4259-4276.	1.8	29
110	Effects of mixing time on methane production from anaerobic co-digestion of food waste and chicken manure: Experimental studies and CFD analysis. Bioresource Technology, 2019, 294, 122177.	4.8	29
111	Food waste treating by biochar-assisted high-solid anaerobic digestion coupled with steam gasification: Enhanced bioenergy generation and porous biochar production. Bioresource Technology, 2021, 331, 125051.	4.8	29
112	Template-Assembled Triple-Helical Peptide Molecules:â€‰ Mimicry of Collagen by Molecular Architecture and Integrin-Specific Cell Adhesion. Biochemistry, 2008, 47, 585-596.	1.2	28
113	Fabrication of ultrasound-responsive microbubbles via coaxial electrohydrodynamic atomization for triggered release of tPA. Journal of Colloid and Interface Science, 2017, 501, 282-293.	5.0	28
114	Toxicity assessment of carbon black waste: A by-product from oil refineries. Journal of Hazardous Materials, 2017, 321, 600-610.	6.5	28
115	Timing of biochar dosage for anaerobic digestion treating municipal leachate: Altered conversion pathways of volatile fatty acids. Bioresource Technology, 2021, 335, 125283.	4.8	28
116	A critical review on microbes-based treatment strategies for mitigation of toxic pollutants. Science of the Total Environment, 2022, 834, 155444.	3.9	28
117	Spatial characteristics and its driving factors of low-carbon energy technology innovation in China: A gravity movement and exploratory spatial data analysis. Journal of Cleaner Production, 2021, 295, 126481.	4.6	27
118	Evaluating the potential of okara-derived black soldier fly larval frass as a soil amendment. Journal of Environmental Management, 2021, 286, 112163.	3.8	27
119	Control of CO2 input conditions during outdoor culture of Chlorella vulgaris in bubble column photobioreactors. Bioresource Technology, 2015, 186, 238-245.	4.8	26
120	Effects of disposable plastics and wooden chopsticks on the anaerobic digestion of food waste. Waste Management, 2018, 79, 607-614.	3.7	26
121	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. Waste Management, 2021, 130, 155-166.	3.7	26
122	Enhancing microbial lipids yield for biodiesel production by oleaginous yeast Lipomyces starkeyi fermentation: A review. Bioresource Technology, 2022, 344, 126294.	4.8	26
123	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. Science of the Total Environment, 2022, 817, 152968.	3.9	26
124	Understanding and optimizing the gasification of biomass waste with machine learning. Green Chemical Engineering, 2023, 4, 123-133.	3.3	26
125	Wastewater treatment and microbial community dynamics in a sequencing batch reactor operating under photosynthetic aeration. Chemosphere, 2019, 215, 893-903.	4.2	25
126	An Integrin-Specific Collagen-Mimetic Peptide Approach for Optimizing Hep3B Liver Cell Adhesion, Proliferation, and Cellular Functions. Tissue Engineering, 2007, 13, 2451-2463.	4.9	24

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127	Design and Evaluation of Peptide Amphiphiles with Different Hydrophobic Blocks for Simultaneous Delivery of Drugs and Genes. Macromolecular Rapid Communications, 2010, 31, 1212-1217.	2.0	23
128	Variation of household electricity consumption and potential impact of outdoor PM2.5 concentration: A comparison between Singapore and Shanghai. Applied Energy, 2017, 188, 475-484.	5.1	23
129	Tuning the non-equilibrium state of a drug-encapsulated poly(ethylene glycol) hydrogel for stem and progenitor cell mobilization. Biomaterials, 2011, 32, 2004-2012.	5.7	22
130	Study on water transport through a mechanically robust Aquaporin Z biomimetic membrane. Journal of Membrane Science, 2013, 445, 47-52.	4.1	22
131	Cellâ€“Microsphere Constructs Formed with Human Adiposeâ€Derived Stem Cells and Gelatin Microspheres Promotes Stemness, Differentiation, and Controlled Proâ€Angiogenic Potential. Macromolecular Bioscience, 2014, 14, 1458-1468.	2.1	22
132	Coaxial electrohydrodynamic atomization toward large scale production of coreâ€shell structured microparticles. AICHE Journal, 2017, 63, 5303-5319.	1.8	22
133	Trends and driving forces of low-carbon energy technology innovation in Chinaâ€™s industrial sectors from 1998 to 2017: from a regional perspective. Frontiers in Energy, 2021, 15, 473-486.	1.2	22
134	Microâ€“Nano Magnetite-Loaded Biochar Enhances Interspecies Electron Transfer and Viability of Functional Microorganisms in Anaerobic Digestion. ACS Sustainable Chemistry and Engineering, 2022, 10, 2811-2821.	3.2	22
135	Effects of plastics on reactor performance and microbial communities during acidogenic fermentation of food waste for production of volatile fatty acids. Bioresource Technology, 2021, 337, 125481.	4.8	21
136	Delivery of Therapeutics and Molecules Using Self-Assembled Peptides. Current Medicinal Chemistry, 2014, 21, 2469-2479.	1.2	21
137	Enhancing the interaction of central nervous system neurons with poly(tetrafluoroethylene-co-hexafluoropropylene) via a novel surface amine-functionalization reaction followed by peptide modification. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 713-729.	1.9	20
138	Three-stage anaerobic co-digestion of food waste and waste activated sludge: Identifying bacterial and methanogenic archaeal communities and their correlations with performance parameters. Bioresource Technology, 2019, 285, 121333.	4.8	20
139	A Mini-Review on In situ Biogas Upgrading Technologies via Enhanced Hydrogenotrophic Methanogenesis to Improve the Quality of Biogas From Anaerobic Digesters. Frontiers in Energy Research, 2020, 8, .	1.2	20
140	Optimization of bioaugmentation of the anaerobic digestion of Axonopus compressus cowgrass for the production of biomethane. Journal of Cleaner Production, 2020, 258, 120932.	4.6	20
141	Mixing strategies â€“ Activated carbon nexus: Rapid start-up of thermophilic anaerobic digestion with the mesophilic anaerobic sludge as inoculum. Bioresource Technology, 2020, 310, 123401.	4.8	20
142	Methodological framework for wastewater treatment plants delivering expanded service: Economic tradeoffs and technological decisions. Science of the Total Environment, 2022, 823, 153616.	3.9	20
143	Household waste management in Singapore and Shanghai: Experiences, challenges and opportunities from the perspective of emerging megacities. Waste Management, 2022, 144, 221-232.	3.7	20
144	Controlling injectability and inÂvivo stability of thermogelling copolymers for delivery of yttrium-90 through intra-tumoral injection for potential brachytherapy. Biomaterials, 2018, 180, 163-172.	5.7	19

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145	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. Energy Conversion and Management, 2020, 223, 113290.	4.4	19
146	System integration of hydrothermal liquefaction and anaerobic digestion for wet biomass valorization: Biodegradability and microbial syntrophy. Journal of Environmental Management, 2021, 293, 112981.	3.8	19
147	Preparation of tPA-loaded microbubbles as potential theranostic agents: A novel one-step method via coaxial electrohydrodynamic atomization technique. Chemical Engineering Journal, 2017, 307, 168-180.	6.6	18
148	Lysine-based peptide-functionalized PLGA foams for controlled DNA delivery. Journal of Controlled Release, 2009, 138, 64-70.	4.8	17
149	Proteinadsorption behavior in batch and competitive conditions with nanoparticle surface imprinting. RSC Advances, 2013, 3, 1519-1527.	1.7	17
150	Environmental impact comparison of four options to treat the cellulosic fraction of municipal solid waste (CF-MSW) in green megacities. Waste Management, 2018, 78, 677-685.	3.7	17
151	A comparative life cycle assessment on mono- and co-digestion of food waste and sewage sludge. Energy Procedia, 2019, 158, 4166-4171.	1.8	17
152	Rapid toxicity screening of gasification ashes. Waste Management, 2016, 50, 93-104.	3.7	16
153	CO2-assisted removal of nutrients from municipal wastewater by microalgae Chlorella vulgaris and Scenedesmus obliquus. International Journal of Environmental Science and Technology, 2018, 15, 2183-2192.	1.8	16
154	A fluorescence-displacement assay using molecularly imprinted polymers for the visual, rapid, and sensitive detection of the algal metabolites, geosmin and 2-methylisoborneol. Analytica Chimica Acta, 2019, 1066, 121-130.	2.6	15
155	Characterization of Soluble Algal Products (SAPs) after electrocoagulation of a mixed algal culture. Biotechnology Reports (Amsterdam, Netherlands), 2020, 25, e00433.	2.1	15
156	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. Journal of Environmental Management, 2022, 306, 114471.	3.8	14
157	Defining the Surface Chemistry of Ammonia-Modified Poly(tetrafluoroethylene-co-hexafluoropropylene) Films. Macromolecules, 1999, 32, 3464-3468.	2.2	13
158	Access to Different Nanostructures via Selfâ€Assembly of Thioureaâ€Containing PEGylated Amphiphiles. Macromolecular Rapid Communications, 2013, 34, 652-658.	2.0	13
159	Enzymeâ€Induced Matrix Softening Regulates Hepatocarcinoma Cancer Cell Phenotypes. Macromolecular Bioscience, 2017, 17, 1700117.	2.1	13
160	Bioelectrochemical Enhancement of Methanogenic Metabolism in Anaerobic Digestion of Food Waste Under Salt Stress Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 13526-13535.	3.2	13
161	Quantification of Aquaporin-Z reconstituted into vesicles for biomimetic membrane fabrication. Scientific Reports, 2017, 7, 11565.	1.6	12
162	Effect of seed sludge source and start-up strategy on the performance and microbial communities of thermophilic anaerobic digestion of food waste. Energy, 2020, 203, 117922.	4.5	12

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163	Integrating gravity settler with an algal membrane photobioreactor for in situ biomass concentration and harvesting. Bioresource Technology, 2020, 315, 123822.	4.8	12
164	Toward a Better Understanding of the Nature-Inspired Aquaporin Biomimetic Membrane. Langmuir, 2019, 35, 7285-7293.	1.6	11
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