Jonathan Woon Chung Wong

List of Publications by Year
in descending order

103 papers	6,487 citations	61945 43 h-index	71651 76 g-index
104 all docs	104 docs citations	104 times ranked	5075 citing authors

#	Article	IF	Citations
1	Enhanced volatile fatty acids production from anaerobic fermentation of food waste: A mini-review focusing on acidogenic metabolic pathways. Bioresource Technology, 2018, 248, 68-78.	4.8	455
2	Reducing nitrogen loss and salinity during â€˜struviteâ€™ food waste composting by zeolite amendment. Bioresource Technology, 2016, 200, 838-844.	4.8	347
3	Evaluation of thermophilic fungal consortium for organic municipal solid waste composting. Bioresource Technology, 2014, 168, 214-221.	4.8	268
4	Evaluation of humic substances during co-composting of food waste, sawdust and Chinese medicinal herbal residues. Bioresource Technology, 2014, 168, 229-234.	4.8	257
5	Co-digestion of food waste and sewage sludge for methane production: Current status and perspective. Bioresource Technology, 2018, 265, 519-531.	4.8	235
6	Pretreatment of food waste for methane and hydrogen recovery: A review. Bioresource Technology, 2018, 249, 1025-1039.	4.8	232
7	Co-composting of gelatin industry sludge combined with organic fraction of municipal solid waste and poultry waste employing zeolite mixed with enriched nitrifying bacterial consortium. Bioresource Technology, 2016, 213, 181-189.	4.8	167
8	Sustainable processing of food waste for production of bio-based products for circular bioeconomy. Bioresource Technology, 2021, 325, 124684.	4.8	166
9	Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. Journal of Hazardous Materials, 2021, 407, 124344.	6.5	150
10	Nitrogen conservation and acidity control during food wastes composting through struvite formation. Bioresource Technology, 2013, 147, 17-22.	4.8	142
11	Effect of Dissolved Organic Matter from Sludge and Sludge Compost on Soil Copper Sorption. Journal of Environmental Quality, 2001, 30, 878-883.	1.0	137
12	A critical review on various feedstocks as sustainable substrates for biosurfactants production: a way towards cleaner production. Microbial Cell Factories, 2021, 20, 120.	1.9	124
13	A critical review: emerging bioeconomy and waste-to-energy technologies for sustainable municipal solid waste management. Waste Disposal & Sustainable Energy, 2019, 1, 151-167.	1.1	118
14	Optimization of micro-aeration intensity in acidogenic reactor of a two-phase anaerobic digester treating food waste. Waste Management, 2014, 34, 363-369.	3.7	117
15	Microbiological insights into anaerobic digestion for biogas, hydrogen or volatile fatty acids (VFAs): a review. Bioengineered, 2022, 13, 6521-6557.	1.4	107
16	Influence of lime on struvite formation and nitrogen conservation during food waste composting. Bioresource Technology, 2016, 217, 227-232.	4.8	106
17	A review on nitrogen dynamics and mitigation strategies of food waste digestate composting. Bioresource Technology, 2021, 334, 125032.	4.8	106
18	Chinese medicinal herbal residues as a bulking agent for food waste composting. Bioresource Technology, 2018, 249, 182-188.	4.8	103

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19	Effect of Surfactants on Solubilization and Degradation of Phenanthrene under Thermophilic Conditions. Journal of Environmental Quality, 2004, 33, 2015-2025.	1.0	94
20	Odor emission and microbial community succession during biogas residue composting covered with a molecular membrane. Bioresource Technology, 2020, 297, 122518.	4.8	93
21	Influence of microbial diversity and plant growth hormones in compost and vermicompost from fermented tannery waste. Bioresource Technology, 2016, 217, 200-204.	4.8	92
22	Biodegradation of food waste using microbial cultures producing thermostable Î±-amylase and cellulase under different pH and temperature. Bioresource Technology, 2018, 248, 160-170.	4.8	89
23	Production of biosurfactants from agro-industrial waste and waste cooking oil in a circular bioeconomy: An overview. Bioresource Technology, 2022, 343, 126059.	4.8	82
24	Enhanced volatile fatty acid degradation and methane production efficiency by biochar addition in food waste-sludge co-digestion: A step towards increased organic loading efficiency in co-digestion. Bioresource Technology, 2020, 308, 123250.	4.8	81
25	Food waste digestate composting: Feedstock optimization with sawdust and mature compost. Bioresource Technology, 2021, 341, 125759.	4.8	81
26	Acid-forming capacity of leadâ€“zinc mine tailings and its implications for mine rehabilitation. Environmental Geochemistry and Health, 1998, 20, 149-155.	1.8	69
27	Effect of Chinese medicinal herbal residues on microbial community succession and anti-pathogenic properties during co-composting with food waste. Bioresource Technology, 2016, 217, 190-199.	4.8	69
28	A review on integrated approaches for municipal solid waste for environmental and economical relevance: Monitoring tools, technologies, and strategic innovations. Bioresource Technology, 2021, 342, 125982.	4.8	68
29	Bioelectrohydrogenesis and inhibition of methanogenic activity in microbial electrolysis cells - A review. Biotechnology Advances, 2017, 35, 758-771.	6.0	63
30	Influence of ferrous ions on extracellular polymeric substances content and sludge dewaterability during bioleaching. Bioresource Technology, 2015, 179, 78-83.	4.8	60
31	Trends in mitigation of industrial waste: Global health hazards, environmental implications and waste derived economy for environmental sustainability. Science of the Total Environment, 2022, 811, 152357.	3.9	60
32	Promoting anaerobic co-digestion of sewage sludge and food waste with different types of conductive materials: Performance, stability, and underlying mechanism. Bioresource Technology, 2021, 337, 125384.	4.8	59
33	Integrated food waste and sewage treatment â€“ A better approach than conventional food waste-sludge co-digestion for higher energy recovery via anaerobic digestion. Bioresource Technology, 2019, 289, 121698.	4.8	57
34	Influence of lime and struvite on microbial community succession and odour emission during food waste composting. Bioresource Technology, 2018, 247, 652-659.	4.8	56
35	Food waste leachate treatment using an Upflow Anaerobic Sludge Bed (UASB): Effect of conductive material dosage under low and high organic loads. Bioresource Technology, 2020, 304, 122738.	4.8	55
36	Biocatalytic remediation of industrial pollutants for environmental sustainability: Research needs and opportunities. Chemosphere, 2021, 272, 129936.	4.2	55

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37	Bioconversion of organic wastes into value-added products: A review. Bioresource Technology, 2022, 344, 126398.	4.8	55
38	Microbial community distribution and extracellular enzyme activities in leach bed reactor treating food waste: Effect of different leachate recirculation practices. Bioresource Technology, 2014, 168, 41-48.	4.8	53
39	Innovative method for increased methane recovery from two-phase anaerobic digestion of food waste through reutilization of acidogenic off-gas in methanogenic reactor. Bioresource Technology, 2016, 217, 3-9.	4.8	52
40	Bio-based rhamnolipids production and recovery from waste streams: Status and perspectives. Bioresource Technology, 2021, 319, 124213.	4.8	52
41	Degradation of tetracycline and sulfadiazine during continuous thermophilic composting of pig manure and sawdust. Environmental Technology (United Kingdom), 2013, 34, 2433-2441.	1.2	51
42	Bio-degradation of oily food waste employing thermophilic bacterial strains. Bioresource Technology, 2018, 248, 141-147.	4.8	51
43	Sustainable utilization of food waste for bioenergy production: A step towards circular bioeconomy. International Journal of Food Microbiology, 2022, 365, 109538.	2.1	49
44	Lipid accumulation potential of oleaginous yeasts: A comparative evaluation using food waste leachate as a substrate. Bioresource Technology, 2018, 248, 221-228.	4.8	46
45	Enhanced food waste degradation in integrated two-phase anaerobic digestion: Effect of leachate recirculation ratio. Bioresource Technology, 2019, 291, 121813.	4.8	46
46	Biodegradation kinetics of ammonium enriched food waste digestate compost with biochar amendment. Bioresource Technology, 2021, 341, 125871.	4.8	46
47	Reduction of indicator and pathogenic microorganisms in pig manure through fly ash and lime addition during alkaline stabilization. Journal of Hazardous Materials, 2009, 169, 882-889.	6.5	45
48	PHYTOCHELATIN SYSTHESIS AND CADMIUM UPTAKE OFBRASSICA NAPUS. Environmental Technology (United Kingdom), 2008, 29, 765-773.	1.2	44
49	Enhanced carboxylic acids production by decreasing hydrogen partial pressure during acidogenic fermentation of glucose. Bioresource Technology, 2017, 245, 44-51.	4.8	44
50	A mini-review on the metabolic pathways of food waste two-phase anaerobic digestion system. Waste Management and Research, 2019, 37, 333-346.	2.2	44
51	Recovery of resources from industrial wastewater employing electrochemical technologies: status, advancements and perspectives. Bioengineered, 2021, 12, 4697-4718.	1.4	43
52	Critical evaluation of post-consumption food waste composting employing thermophilic bacterial consortium. Bioresource Technology, 2017, 245, 665-672.	4.8	42
53	Flocculation and dewaterability of chemically enhanced primary treatment sludge by bioaugmentation with filamentous fungi. Bioresource Technology, 2014, 168, 198-203.	4.8	41
54	Application of rumen microbes to enhance food waste hydrolysis in acidogenic leach-bed reactors. Bioresource Technology, 2014, 168, 64-71.	4.8	41

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55	Evaluation of microbial dynamics during post-consumption food waste composting. Bioresource Technology, 2018, 251, 181-188.	4.8	40
56	Effect of biochar combined with a biotrickling filter on deodorization, nitrogen retention, and microbial community succession during chicken manure composting. Bioresource Technology, 2022, 343, 126137.	4.8	40
57	Enhanced dewaterability of anaerobically digested sewage sludge using Acidithiobacillus ferrooxidans culture as sludge conditioner. Bioresource Technology, 2014, 169, 374-379.	4.8	39
58	Effects of different thermal pretreatments on the biodegradability and bioaccessibility of sewage sludge. Waste Management, 2019, 94, 68-76.	3.7	39
59	Responses of microbial community and acidogenic intermediates to different water regimes in a hybrid solid anaerobic digestion system treating food waste. Bioresource Technology, 2014, 168, 49-58.	4.8	36
60	Bio-hydrogen and methane production from two-phase anaerobic digestion of food waste under the scheme of acidogenic off-gas reuse. Bioresource Technology, 2020, 297, 122400.	4.8	36
61	Food waste valorization: Energy production using novel integrated systems. Bioresource Technology, 2021, 322, 124538.	4.8	36
62	Food waste and sewage sludge co-digestion amended with different biochars: VFA kinetics, methane yield and digestate quality assessment. Journal of Environmental Management, 2021, 290, 112457.	3.8	36
63	Application of recombinant Pediococcus acidilactici BD16 (fcs +/ech +) for bioconversion of agrowaste to vanillin. Applied Microbiology and Biotechnology, 2017, 101, 5615-5626.	1.7	34
64	Assistant role of bioelectrode on methanogenic reactor under ammonia stress. Bioresource Technology, 2016, 217, 72-81.	4.8	33
65	Anaerobic digestion beyond biogas. Bioresource Technology, 2021, 337, 125378.	4.8	33
66	Food waste treatment by anaerobic co-digestion with saline sludge and its implications for energy recovery in Hong Kong. Bioresource Technology, 2018, 268, 824-828.	4.8	32
67	A novel way to utilize hydrogen and carbon dioxide in acidogenic reactor through homoacetogenesis. Bioresource Technology, 2014, 159, 249-257.	4.8	30
68	Sludge conditioning using biogenic flocculant produced by Acidithiobacillus ferrooxidans for enhancement in dewaterability. Bioresource Technology, 2016, 217, 179-185.	4.8	28
69	Fate of extracellular polymeric substances of anaerobically digested sewage sludge during pre-dewatering conditioning with Acidithiobacillus ferrooxidans culture. Bioresource Technology, 2016, 217, 173-178.	4.8	26
70	Biological nutrient transformation during composting of pig manure and paper waste. Environmental Technology (United Kingdom), 2017, 38, 754-761.	1.2	25
71	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater. Bioengineered, 2022, 13, 8115-8134.	1.4	23
72	Dewatering of saline sewage sludge using iron-oxidizing bacteria: Effect of substrate concentration. Bioresource Technology, 2016, 213, 31-38.	4.8	22

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73	Microbial biodegradation of proteinaceous tannery solid waste and production of a novel value added product â€“ Metalloprotease. Bioresource Technology, 2016, 217, 150-156.	4.8	21
74	Influence of acidogenic headspace pressure on methane production under schematic of diversion of acidogenic off-gas to methanogenic reactor. Bioresource Technology, 2017, 245, 1000-1007.	4.8	21
75	Optimization of water replacement during leachate recirculation for two-phase food waste anaerobic digestion system with off-gas diversion. Bioresource Technology, 2021, 335, 125234.	4.8	21
76	Waste-to-biofuel: production of biobutanol from sago waste residues. Environmental Technology (United Kingdom), 2017, 38, 1725-1734.	1.2	20
77	Two-phase anaerobic digestion of food waste: Effect of semi-continuous feeding on acidogenesis and methane production. Bioresource Technology, 2022, 346, 126396.	4.8	20
78	Crucifera sulforaphane (SFN) inhibits the growth of nasopharyngeal carcinoma through DNA methyltransferase 1 (DNMT1)/Wnt inhibitory factor 1 (WIF1) axis. Phytomedicine, 2019, 63, 153058.	2.3	19
79	Influence of different mixing ratios on in-vessel co-composting of sewage sludge with horse stable straw bedding waste: maturity and process evaluation. Waste Management and Research, 2011, 29, 1164-1170.	2.2	18
80	Enhanced heavy metal bioleaching efficiencies from anaerobically digested sewage sludge with coinoculation of Acidithiobacillus ferrooxidans ANYL-1 and Blastoschizomyces capitatus Y5. Water Science and Technology, 2004, 50, 83-89.	1.2	17
81	Value Addition of Anaerobic Digestate From Biowaste: Thinking Beyond Agriculture. Current Sustainable/Renewable Energy Reports, 2020, 7, 48-55.	1.2	17
82	A Review of the Use of Carbon Nanotubes and Graphene-Based Sensors for the Detection of Aflatoxin M1 Compounds in Milk. Sensors, 2021, 21, 3602.	2.1	17
83	Assessing simultaneous immobilization of lead and improvement of phosphorus availability through application of phosphorus-rich biochar in a contaminated soil: A pot experiment. Chemosphere, 2022, 296, 133891.	4.2	17
84	Growth and Elemental Accumulation of Plants Grown in Acidic Soil Amended With Coal Fly Ashâ€“Sewage Sludge Co-compost. Archives of Environmental Contamination and Toxicology, 2009, 57, 515-523.	2.1	16
85	Development of correction factors for landfill gas emission model suiting Indian condition to predict methane emission from landfills. Bioresource Technology, 2014, 168, 97-99.	4.8	16
86	Ultrasonic and Thermal Pretreatments on Anaerobic Digestion of Petrochemical Sludge: Dewaterability and Degradation of PAHs. PLoS ONE, 2015, 10, e0136162.	1.1	16
87	Enhancing the Performance and Stability of the Co-anaerobic Digestion of Municipal Sludge and Food Waste by Granular Activated Carbon Dosing. Energy & Fuels, 2020, 34, 16284-16293.	2.5	15
88	Biochar porosity: a nature-based dependent parameter to deliver microorganisms to soils for land restoration. Environmental Science and Pollution Research, 2021, 28, 46894-46909.	2.7	15
89	Evaluations of biochar amendment on anaerobic co-digestion of pig manure and sewage sludge: waste-to-methane conversion, microbial community, and antibiotic resistance genes. Bioresource Technology, 2022, 346, 126400.	4.8	15
90	Fate of heavy metals and major nutrients in a sludge-soil-plant-leachate system during the sludge phyto-treatment process. Environmental Technology (United Kingdom), 2013, 34, 2221-2229.	1.2	14

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91	Ammonia-oxidizing bacterial communities and shaping factors with different Phanerochaete chrysosporium inoculation regimes during agricultural waste composting. RSC Advances, 2016, 6, 61473-61481.	1.7	14
92	Alkaline biosolids and EDTA for phytoremediation of an acidic loamy soil spiked with cadmium. Science of the Total Environment, 2004, 324, 235-246.	3.9	13
93	Effect of organic waste amendments on degradation of PAHs in soil using thermophillic composting. Environmental Technology (United Kingdom), 2003, 24, 23-30.	1.2	12
94	Optimizing extraction procedures for better removal of potentially toxic elements during EDTA-assisted soil washing. Journal of Soils and Sediments, 2020, 20, 3417-3426.	1.5	12
95	Food Waste Digestate-Based Biorefinery Approach for Rhamnolipids Production: A Techno-Economic Analysis. Sustainable Chemistry, 2021, 2, 237-253.	2.2	12
96	IoT-Based Laser-Inscribed Sensors for Detection of Sulfate in Water Bodies. IEEE Access, 2020, 8, 228879-228890.	2.6	12
97	Fractionation and characterization of sludge bacterial extracellular polymers by FT-IR, 13C-NMR, 1H-NMR. Water Science and Technology, 2001, 44, 71-78.	1.2	9
98	Improved dewatering of CEPT sludge by biogenic flocculant from Acidithiobacillus ferrooxidans. Water Science and Technology, 2016, 73, 843-848.	1.2	9
99	The role of oxidative stress in the growth of the indoor moldCladosporium cladosporioidesunder water dynamics. Indoor Air, 2020, 30, 117-125.	2.0	8
100	Current challenges for shaping the sustainable and mold-free hygienic indoor environment in humid regions. Letters in Applied Microbiology, 2020, 70, 396-406.	1.0	6
101	Temperature versus Relative Humidity: Which Is More Important for Indoor Mold Prevention?. Journal of Fungi (Basel, Switzerland), 2022, 8, 696.	1.5	5
102	Mechanisms of indoor mold survival under moisture dynamics, a special water treatment approach within the indoor context. Chemosphere, 2022, 302, 134748.	4.2	4
103	Production of bioflocculant from Klebsiella pneumoniae : evaluation of fish waste extract as substrate and flocculation performance. Environmental Technology (United Kingdom), 2023, 44, 4046-4059.	1.2	3