

# Ka Yu Cheng

## List of Publications by Year in descending order

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77  
papers

2,232  
citations

201385

27  
h-index

233125

45  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2455  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in biohydrometallurgy and microbial characterisation. <i>Hydrometallurgy</i> , 2018, 180, 7-25.	1.8	137
2	Ammonium as a sustainable proton shuttle in bioelectrochemical systems. <i>Bioresource Technology</i> , 2011, 102, 9691-9696.	4.8	115
3	Bioelectricity production from acidic food waste leachate using microbial fuel cells: Effect of microbial inocula. <i>Process Biochemistry</i> , 2013, 48, 283-288.	1.8	108
4	Anodophilic Biofilm Catalyzes Cathodic Oxygen Reduction. <i>Environmental Science &amp; Technology</i> , 2010, 44, 518-525.	4.6	97
5	Affinity of Microbial Fuel Cell Biofilm for the Anodic Potential. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3828-3834.	4.6	90
6	Combined effect of nonionic surfactant Tween 80 and DOM on the behaviors of PAHs in soil-water system. <i>Chemosphere</i> , 2006, 62, 1907-1916.	4.2	86
7	Application of indirect non-contact bioleaching for extracting metals from waste lithium-ion batteries. <i>Journal of Hazardous Materials</i> , 2018, 360, 504-511.	6.5	81
8	Bioelectricity production from food waste leachate using microbial fuel cells: Effect of NaCl and pH. <i>Bioresource Technology</i> , 2013, 149, 452-458.	4.8	80
9	Novel Methanogenic Rotatable Bioelectrochemical System Operated with Polarity Inversion. <i>Environmental Science &amp; Technology</i> , 2011, 45, 796-802.	4.6	78
10	Effects of pig manure compost and nonionic-surfactant Tween 80 on phenanthrene and pyrene removal from soil vegetated with <i>Agropyron elongatum</i> . <i>Chemosphere</i> , 2008, 73, 791-797.	4.2	73
11	Prospective directions for biohydrometallurgy. <i>Hydrometallurgy</i> , 2020, 195, 105376.	1.8	67
12	E-Waste Recycling and Resource Recovery: A Review on Technologies, Barriers and Enablers with a Focus on Oceania. <i>Metals</i> , 2021, 11, 1313.	1.0	64
13	Ano-Cathodophilic Biofilm Catalyzes Both Anodic Carbon Oxidation and Cathodic Denitrification. <i>Environmental Science &amp; Technology</i> , 2012, 46, 10372-10378.	4.6	63
14	Bioelectrohydrogenesis and inhibition of methanogenic activity in microbial electrolysis cells - A review. <i>Biotechnology Advances</i> , 2017, 35, 758-771.	6.0	63
15	A novel post denitrification configuration for phosphorus recovery using polyphosphate accumulating organisms. <i>Water Research</i> , 2013, 47, 6488-6495.	5.3	58
16	Influence of ionic conductivity in bioelectricity production from saline domestic sewage sludge in microbial fuel cells. <i>Bioresource Technology</i> , 2016, 200, 845-852.	4.8	53
17	Ammonia recycling enables sustainable operation of bioelectrochemical systems. <i>Bioresource Technology</i> , 2013, 143, 25-31.	4.8	48
18	Urban mining of lithium-ion batteries in Australia: Current state and future trends. <i>Minerals Engineering</i> , 2018, 128, 45-55.	1.8	45

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19	Biohydrometallurgical iron oxidation and precipitation: Part I – Effect of pH on process performance. <i>Hydrometallurgy</i> , 2014, 147-148, 255-263.	1.8	42
20	Effect of Synthetic Surfactants on the Solubilization and Distribution of PAHs in Water/Soil-Water Systems. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 835-844.	1.2	37
21	Simultaneous nitrification, denitrification and phosphorus recovery (SNDPr) - An opportunity to facilitate full-scale recovery of phosphorus from municipal wastewater. <i>Journal of Environmental Management</i> , 2019, 238, 41-48.	3.8	36
22	Bioelectrochemical enhancement of anaerobic digestion: Comparing single- and two-chamber reactor configurations at thermophilic conditions. <i>Bioresource Technology</i> , 2017, 245, 1168-1175.	4.8	35
23	Sequential hydrotalcite precipitation and biological sulfate reduction for acid mine drainage treatment. <i>Chemosphere</i> , 2020, 252, 126570.	4.2	35
24	The role of bacterial communities and carbon dioxide on the corrosion of steel. <i>Corrosion Science</i> , 2015, 98, 354-365.	3.0	34
25	Selective precipitation of metals from synthetic spent refinery catalyst leach liquor with biogenic H <sub>2</sub> S produced in a lactate-fed anaerobic baffled reactor. <i>Hydrometallurgy</i> , 2013, 139, 154-161.	1.8	31
26	Multistage leaching of metals from spent lithium ion battery waste using electrochemically generated acidic lixiviant. <i>Waste Management</i> , 2018, 74, 435-445.	3.7	30
27	Potential of metals leaching from printed circuit boards with biological and chemical lixivants. <i>Hydrometallurgy</i> , 2020, 196, 105433.	1.8	29
28	Re-visiting the Phostrip process to recover phosphorus from municipal wastewater. <i>Chemical Engineering Journal</i> , 2018, 343, 390-398.	6.6	28
29	Solubilization and Desorption of Pahs in Soilaqueous System by Biosurfactants Produced from <i>Pseudomonas Aeruginosa</i> -P-CG3 Under Thermophilic Condition. <i>Environmental Technology (United Kingdom)</i> , 2004, 25, 1159-1165.	1.2	27
30	Iron oxidation and jarosite precipitation in a two-stage airlift bioreactor. <i>Hydrometallurgy</i> , 2014, 150, 227-235.	1.8	27
31	Assessing graphite and stainless-steel for electrochemical sensing of biofilm growth in chlorinated drinking water systems. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 526-534.	4.0	27
32	Evidence for fungi and gold redox interaction under Earth surface conditions. <i>Nature Communications</i> , 2019, 10, 2290.	5.8	25
33	Energy-efficient treatment of organic wastewater streams using a rotatable bioelectrochemical contactor (RBEC). <i>Bioresource Technology</i> , 2012, 126, 431-436.	4.8	24
34	Sequential in situ hydrotalcite precipitation and biological denitrification for the treatment of high-nitrate industrial effluent. <i>Bioresource Technology</i> , 2014, 172, 373-381.	4.8	24
35	Recovery of Metals from Waste Lithium Ion Battery Leachates Using Biogenic Hydrogen Sulfide. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 563.	0.8	24
36	Aerobic degradation of sulfanilic acid using activated sludge. <i>Water Research</i> , 2012, 46, 145-151.	5.3	23

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37	Enrichment of anodophilic nitrogen fixing bacteria in a bioelectrochemical system. <i>Water Research</i> , 2014, 64, 73-81.	5.3	23
38	Risks of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) for Sustainable Water Recycling via Aquifers. <i>Water (Switzerland)</i> , 2019, 11, 1737.	1.2	23
39	A new approach for in situ cyclic voltammetry of a microbial fuel cell biofilm without using a potentiostat. <i>Bioelectrochemistry</i> , 2009, 74, 227-231.	2.4	21
40	Fate of 14C- <sup>14</sup> C-labelled Pyrene in soil-plant system amended with pig manure compost and Tween 80: A growth chamber study. <i>Bioresource Technology</i> , 2008, 99, 8406-8412.	4.8	17
41	Improvement of carbon usage for phosphorus recovery in EBPR-r and the shift in microbial community. <i>Journal of Environmental Management</i> , 2018, 218, 569-578.	3.8	16
42	Biological phosphorus and nitrogen removal in sequencing batch reactors: effects of cycle length, dissolved oxygen concentration and influent particulate matter. <i>Water Science and Technology</i> , 2013, 68, 982-990.	1.2	12
43	Rapid start-up of a bioelectrochemical system under alkaline and saline conditions for efficient oxalate removal. <i>Bioresource Technology</i> , 2018, 250, 317-327.	4.8	12
44	A Comparison of Methods for the Characterisation of Waste-Printed Circuit Boards. <i>Metals</i> , 2021, 11, 1935.	1.0	12
45	Bioelectrochemical system as an oxidising filter for soluble and particulate organic matter removal from municipal wastewater. <i>Chemical Engineering Journal</i> , 2016, 296, 225-233.	6.6	10
46	Optimization of nitrate and selenate reduction in an ethanol-fed fluidized bed reactor via redox potential feedback control. <i>Journal of Hazardous Materials</i> , 2021, 402, 123770.	6.5	10
47	Microbially Catalysed Selenate Removal in an Inverse Fluidised Bed Reactor. <i>Solid State Phenomena</i> , 0, 262, 677-681.	0.3	8
48	Microbial Electrochemical Remediation of Organic Contaminants. , 2019, , 613-640.		8
49	Exploring the use of Dicranopteris pedata ash as a rare earth fertilizer to <i>Ipomoea aquatica</i> Forsskal. <i>Journal of Hazardous Materials</i> , 2020, 400, 123207.	6.5	8
50	Simultaneous phosphorus uptake and denitrification by EBPR-r biofilm under aerobic conditions: effect of dissolved oxygen. <i>Water Science and Technology</i> , 2015, 72, 1147-1154.	1.2	7
51	A bio-anodic filter facilitated entrapment, decomposition and in situ oxidation of algal biomass in wastewater effluent. <i>Bioresource Technology</i> , 2016, 216, 529-536.	4.8	7
52	Bioelectrochemical oxidation of organics by alkali-halotolerant anodophilic biofilm under nitrogen-deficient, alkaline and saline conditions. <i>Bioresource Technology</i> , 2017, 245, 890-898.	4.8	7
53	The ability of PAOs to conserve their storage-driven phosphorus uptake activities during prolonged aerobic starvation conditions. <i>Journal of Water Process Engineering</i> , 2018, 23, 320-326.	2.6	7
54	A new method for ranking potential hazards and risks from wastes. <i>Journal of Hazardous Materials</i> , 2019, 365, 778-788.	6.5	7

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55	Integrating Microbial Electrochemical Technologies With Anaerobic Digestion for Waste Treatment. , 2017, , 191-221.		6
56	Kinetics of oxalate degradation in aerated packed-bed biofilm reactors under nitrogen supplemented and deficient conditions. Journal of Cleaner Production, 2019, 211, 270-280.	4.6	6
57	High-rate microbial selenate reduction in an up-flow anaerobic fluidized bed reactor (FBR). Science of the Total Environment, 2020, 749, 142359.	3.9	6
58	Recent Advances in Biomining and Microbial Characterisation. Solid State Phenomena, 0, 262, 33-37.	0.3	5
59	Oxalate degradation by alkaliphilic biofilms acclimatised to nitrogen-supplemented and nitrogen-deficient conditions. Journal of Chemical Technology and Biotechnology, 2018, 93, 744-753.	1.6	5
60	A novel storage driven granular post denitrification process: Long-term effects of volume reduction on phosphate recovery. Chemical Engineering Journal, 2019, 356, 534-542.	6.6	4
61	Effect of Initial Cell Concentration on Bio-Oxidation of Pyrite before Gold Cyanidation. Minerals (Basel, Switzerland), 2021, 11, 834.	0.8	4
62	Inverse fluidised bed bioreactor enabled high-rate selenate reduction for wastewater treatment. Environmental Advances, 2021, 5, 100106.	2.2	4
63	Sequential removal of selenate, nitrate and sulfate and recovery of elemental selenium in a multi-stage bioreactor process with redox potential feedback control. Journal of Hazardous Materials, 2022, 424, 127539.	6.5	4
64	Limitations of Bio-Hydrogen Production by Anaerobic Fermentation Process: An Overview. , 2007, , .		3
65	Assessing the suitability of sediment-type bioelectrochemical systems for organic matter removal from municipal wastewater: a column study. Water Science and Technology, 2016, 74, 974-984.	1.2	3
66	New method for characterizing electron mediators in microbial systems using a thin-layer twin-working electrode cell. Biosensors and Bioelectronics, 2017, 87, 531-536.	5.3	3
67	Influences of pH and organic carbon on oxalate removal by alkaliphilic biofilms acclimatized to nitrogen-deficient and supplemented conditions. Journal of Cleaner Production, 2018, 187, 699-707.	4.6	3
68	Increasing cell concentration does not affect specific ferrous iron oxidation rate in a continuously stirred tank bioreactor. Hydrometallurgy, 2018, 181, 189-194.	1.8	3
69	Insights drawn from a full-scale Intermittently Decanted Extended Aeration (IDEA) plant for optimising nitrogen and phosphorus removal from municipal wastewater. Science of the Total Environment, 2020, 744, 140576.	3.9	3
70	Treatment of neutral gold mine drainage by sequential in situ hydrotalcite precipitation, and microbial sulfate and cyanide removal. Science of the Total Environment, 2021, 801, 149613.	3.9	3
71	Application of Microbial Fuel Cells to Power Sensor Networks for Ecological Monitoring. Smart Sensors, Measurement and Instrumentation, 2013, , 151-178.	0.4	3
72	Sequential solid entrapment and in situ electrolytic alkaline hydrolysis facilitated reagent-free bioelectrochemical treatment of particulate-rich municipal wastewater. Water Research, 2017, 117, 18-26.	5.3	2

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73	Biological recovery of phosphorus from municipal wastewater. <i>Microbiology Australia</i> , 2013, 34, 194.	0.1	2
74	Ammonium-oxidizing bacteria facilitate aerobic degradation of sulfanilic acid in activated sludge. <i>Water Science and Technology</i> , 2014, 70, 1122-1128.	1.2	1
75	Two-Stage Airlift Bioreactor System for Efficient Iron Oxidation and Jarosite Precipitation. <i>Advanced Materials Research</i> , 0, 825, 242-245.	0.3	0
76	Long-term performance of a full-scale intermittently decanted extended aeration (IDEA) plant: The effect of dissolved oxygen and the relocation of alum dosing to bioselector. <i>Journal of Environmental Management</i> , 2022, 302, 113915.	3.8	0
77	A three-chamber electrochemical cell facilitated biogas upgrading and high-purity oxygen production. <i>Journal of Applied Electrochemistry</i> , 0, , 1.	1.5	0