

Chi-Wen Lin

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,638
citations

236925

25
h-index

361022

35
g-index

70
all docs

70
docs citations

70
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of different mediators on electricity generation and microbial structure of a toluene powered microbial fuel cell. <i>Fuel</i> , 2014, 125, 30-35.	6.4	78
2	A permeable reactive barrier for the bioremediation of BTEX-contaminated groundwater: Microbial community distribution and removal efficiencies. <i>Journal of Hazardous Materials</i> , 2010, 178, 74-80.	12.4	77
3	Decolorization of azo dye and generation of electricity by microbial fuel cell with laccase-producing white-rot fungus on cathode. <i>Applied Energy</i> , 2017, 188, 392-398.	10.1	66
4	Bioaugmented remediation of high concentration BTEX-contaminated groundwater by permeable reactive barrier with immobilized bead. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 765-772.	12.4	59
5	Mixed culture fermentation from lignocellulosic materials using thermophilic lignocellulose-degrading anaerobes. <i>Process Biochemistry</i> , 2011, 46, 489-493.	3.7	55
6	Novel oxygen-releasing immobilized cell beads for bioremediation of BTEX-contaminated water. <i>Bioresource Technology</i> , 2012, 124, 45-51.	9.6	52
7	Continuous production of power using microbial fuel cells with integrated biotrickling filter for ethyl acetate-contaminated air stream treatment. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21945-21954.	7.1	48
8	Enhancement of power generation by toluene biodegradation in a microbial fuel cell in the presence of pyocyanin. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2319-2324.	5.3	45
9	Evaluation of different cell-immobilization strategies for simultaneous distillery wastewater treatment and electricity generation in microbial fuel cells. <i>Fuel</i> , 2015, 144, 1-8.	6.4	41
10	Bioremediation capability evaluation of benzene and sulfolane contaminated groundwater: Determination of bioremediation parameters. <i>Science of the Total Environment</i> , 2019, 648, 811-818.	8.0	40
11	Generation of Power by Microbial Fuel Cell with Ferricyanide in Biodegradation of Benzene. <i>Clean - Soil, Air, Water</i> , 2013, 41, 390-395.	1.1	39
12	Increasing removal of benzene from groundwater using stacked tubular air-cathode microbial fuel cells. <i>Journal of Cleaner Production</i> , 2018, 194, 78-84.	9.3	39
13	Modifying proton exchange membrane in a microbial fuel cell by adding clay mineral to improve electricity generation without reducing removal of toluene. <i>Biochemical Engineering Journal</i> , 2018, 134, 101-107.	3.6	37
14	Microbial communities and biodegradation in lab-scale BTEX-contaminated groundwater remediation using an oxygen-releasing reactive barrier. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 383-391.	3.4	36
15	Enhanced gaseous ethyl acetate degradation and power generation by a bioelectrochemical system. <i>Chemical Engineering Journal</i> , 2018, 344, 270-276.	12.7	36
16	Enhancing copper recovery and electricity generation from wastewater using low-cost membrane-less microbial fuel cell with a carbonized clay cup as cathode. <i>Journal of Cleaner Production</i> , 2020, 247, 119118.	9.3	34
17	Enhancement of power generation by microbial fuel cells in treating toluene-contaminated groundwater: Developments of composite anodes with various compositions. <i>Applied Energy</i> , 2019, 233-234, 922-929.	10.1	32
18	Improvement of Oxygen Release from Calcium Peroxide-polyvinyl Alcohol Beads by Adding Low-cost Bamboo Biochar and Its Application in Bioremediation. <i>Clean - Soil, Air, Water</i> , 2015, 43, 287-295.	1.1	30

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19	Electricity production and benzene removal from groundwater using low-cost mini tubular microbial fuel cells in a monitoring well. <i>Journal of Environmental Management</i> , 2017, 193, 551-557.	7.8	30
20	Enhanced bio-decolorization of acid orange 7 and electricity generation in microbial fuel cells with superabsorbent-containing membrane and laccase-based bio-cathode. <i>Journal of Cleaner Production</i> , 2017, 166, 381-386.	9.3	30
21	Inducing laccase activity in white rot fungi using copper ions and improving the efficiency of azo dye treatment with electricity generation using microbial fuel cells. <i>Chemosphere</i> , 2020, 243, 125304.	8.2	30
22	Biodegradation kinetics of benzene, methyltert-butyl ether, and toluene as a substrate under various substrate concentrations. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 51-57.	3.2	28
23	Electricity generation and kinetic aspects of a biotrickling filter-microbial fuel cell for the biofiltration of ethyl acetate vapor from waste gas. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 68, 332-337.	5.3	28
24	Kinetics of xenobiotic biodegradation by the <i>Pseudomonas</i> sp. YATO411 strain in suspension and cell-immobilized beads. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 303-309.	5.3	27
25	Biodegradation kinetics and microbial dynamics of toluene removal in a two-stage cell-biochar-filled biotrickling filter. <i>Journal of Cleaner Production</i> , 2019, 238, 117940.	9.3	27
26	Investigation of Mtb and Aromatic Compound Concentrations at a Gas Service Station. <i>Environmental Monitoring and Assessment</i> , 2005, 105, 327-339.	2.7	25
27	Developing co-culture system of dominant cellulolytic <i>Bacillus</i> sp. THLA0409 and dominant ethanolic <i>Klebsiella oxytoca</i> THLC0409 for enhancing ethanol production from lignocellulosic materials. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 762-769.	5.3	25
28	Innovative encapsulated oxygen-releasing beads for bioremediation of BTEX at high concentration in groundwater. <i>Journal of Environmental Management</i> , 2017, 204, 12-16.	7.8	25
29	Modifying membrane anode in a microbial fuel cell to improve removal of gaseous ethyl acetate without reducing generation of electricity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 62, 169-176.	5.3	24
30	Performance of trickling bed microbial fuel cell treating isopropyl alcohol vapor: Effects of shock-load and shut-down episodes. <i>Chemosphere</i> , 2019, 224, 168-175.	8.2	22
31	Enhancing bioelectricity generation and removal of copper in microbial fuel cells with a laccase-catalyzed biocathode. <i>Journal of Cleaner Production</i> , 2021, 298, 126726.	9.3	22
32	Response surface optimization for ethanol production from <i>Pennisetum Alopecoider</i> by <i>Klebsiella oxytoca</i> THLC0409. <i>Biomass and Bioenergy</i> , 2010, 34, 1922-1929.	5.7	21
33	Influences of metals on kinetics of methyl tert-butyl ether biodegradation by <i>Ochrobactrum cytisi</i> . <i>Chemosphere</i> , 2007, 69, 1485-1491.	8.2	20
34	Effects of mediator producer and dissolved oxygen on electricity generation in a baffled stacking microbial fuel cell treating high strength molasses wastewater. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11722-11730.	7.1	20
35	Source characterization of total suspended particulate matter near a riverbed in Central Taiwan. <i>Journal of Hazardous Materials</i> , 2008, 157, 418-422.	12.4	19
36	Test emission characteristics of motorcycles in Central Taiwan. <i>Science of the Total Environment</i> , 2006, 368, 435-443.	8.0	18

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37	Microbial community structure during oxygen-stimulated bioremediation in phenol-contaminated groundwater. <i>Journal of Hazardous Materials</i> , 2007, 140, 221-229.	12.4	18
38	Ethanol Production from Lignocelluloses by Native Strain <i>Klebsiella oxytoca</i> THLC0409. <i>Waste and Biomass Valorization</i> , 2011, 2, 389-396.	3.4	18
39	Feasibility study of electricity generation and organics removal for a molasses wastewater by a waterfall-type microbial fuel cell. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 78, 150-156.	5.3	18
40	Fabrication of novel rhamnolipid-oxygen-releasing beads for bioremediation of groundwater containing high concentrations of ABTEX. <i>International Biodeterioration and Biodegradation</i> , 2017, 116, 58-63.	3.9	17
41	Microbial community in a pilot-scale biotrickling filter with cell-immobilized biochar beads and its performance in treating toluene-contaminated waste gases. <i>International Biodeterioration and Biodegradation</i> , 2019, 144, 104743.	3.9	16
42	Enhancement of power generation with concomitant removal of toluene from artificial groundwater using a mini microbial fuel cell with a packed-composite anode. <i>Journal of Hazardous Materials</i> , 2020, 387, 121717.	12.4	16
43	Enhanced processing of exhaust gas and power generation by connecting mini-tubular microbial fuel cells in series with a biotrickling filter. <i>Renewable Energy</i> , 2020, 156, 342-348.	8.9	16
44	Optimizing the response surface for producing ethanol from avicel by <i>Brevibacillus</i> strain AHPC8120. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 787-792.	5.3	14
45	Improving the performance of biotrickling filter microbial fuel cells in treating exhaust gas by adjusting the oxygen content of the anode tank. <i>Chemosphere</i> , 2021, 278, 130390.	8.2	14
46	Mapping Soil Lead and Remediation Needs in Contaminated Soils. <i>Environmental Geochemistry and Health</i> , 2002, 24, 23-33.	3.4	13
47	Copper removal and microbial community analysis in a single medium sediment microbial fuel cell. <i>Journal of Water Process Engineering</i> , 2021, 44, 102348.	5.6	13
48	Enhanced copper removal and bioelectricity generation in sediment microbial fuel cells through biostimulation and bioaugmentation. <i>Journal of Cleaner Production</i> , 2022, 350, 131458.	9.3	13
49	Biodegradation kinetics and microbial communities associated with methyl tert-butyl ether removal in a biotrickling filter. <i>Chemical Engineering Journal</i> , 2007, 127, 143-149.	12.7	12
50	Effects of environmental settings on MTBE removal for a mixed culture and its monoculture isolation. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 194-201.	3.6	12
51	Hazardous Air Pollutant Source Emissions for a Chemical Fiber Manufacturing Facility in Taiwan. <i>Water, Air, and Soil Pollution</i> , 2001, 128, 321-337.	2.4	11
52	Enhancing the performance of microbial fuel cell using a carbon-fiber-brush air cathode with low-cost mushroom <i>Ganoderma</i> laccase enzyme. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 85, 115-120.	5.3	11
53	Rapid modification of waste expanded polystyrene with H ₂ SO ₄ /trace persulfate in one pot for effective adsorption of fluoroquinolone antibiotic and its regeneration. <i>Chemosphere</i> , 2021, 271, 129529.	8.2	11
54	Gaseous isopropanol removal in a microbial fuel cell with deoxidizing anode: Performance, anode characteristics and microbial community. <i>Journal of Hazardous Materials</i> , 2022, 423, 127200.	12.4	11

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55	Enhancement of bioelectricity generation for an air-cathode microbial fuel cell using polyvinyl alcohol-membrane electrode assemblies. <i>Biochemical Engineering Journal</i> , 2017, 128, 210-217.	3.6	10
56	Evaluation use of bioaugmentation and biostimulation to improve degradation of sulfolane in artificial groundwater. <i>Chemosphere</i> , 2021, 263, 127919.	8.2	10
57	Hydrolysis of bamboo cellulose and cellulase characteristics by <i>Streptomyces griseoaurantiacus</i> ZQBC691. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 220-225.	5.3	9
58	Waste expanded polystyrene modified with H ₂ SO ₄ /biodegradable chelating agent for reuse: As a highly efficient adsorbent to remove fluoroquinolone antibiotic from water. <i>Chemosphere</i> , 2022, 288, 132619.	8.2	9
59	Cell immobilization technique for biotrickle filtering of isopropyl alcohol waste vapor generated by high-technology industries. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 364-371.	3.2	8
60	Simultaneous enhancement of copper removal and power production using a sediment microbial fuel cell with oxygen separation membranes. <i>Environmental Technology and Innovation</i> , 2022, 26, 102369.	6.1	7
61	Promoting biodegradation of toluene and benzene in groundwater using microbial fuel cells with cathodic modification. <i>Journal of Water Process Engineering</i> , 2022, 47, 102839.	5.6	7
62	Biodegradation Kinetics and Effects of Operating Parameters on the Performance of a Methyl Tert-Butyl Ether Degrading Biofilter. <i>Water, Air, and Soil Pollution</i> , 2006, 177, 399-410.	2.4	6
63	Kinetics of biocathodic electron transfer in a bioelectrochemical system coupled with chemical absorption for NO removal. <i>Chemosphere</i> , 2020, 249, 126095.	8.2	6
64	Formation and Emission of Chlorinated by-Products from a Bench-Scale Packed-Bed Odor Scrubber. <i>Water, Air, and Soil Pollution</i> , 2005, 162, 19-35.	2.4	5
65	Biotreatment of phenol-contaminated wastewater in a spiral packed-bed bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2009, 32, 575-580.	3.4	5
66	Biodegradation of semiconductor volatile organic compounds by four novel bacterial strains: a kinetic analysis. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1117-1124.	3.4	5
67	Critical factors for enhancing the bioremediation of a toxic pollutant at high concentrations in groundwater: Toxicity evaluation, degrader tolerance, and microbial community. <i>Journal of Environmental Management</i> , 2021, 277, 111487.	7.8	5
68	Alleviation of metal and BTEX inhibition on BTEX degradation using PVA-immobilized degrader: kinetic model of BTEX degradation. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1085-1093.	3.4	4
69	Response surface optimization of dissolved oxygen and nitrogen sources for the biodegradation of MTBE and BTEX. <i>Biodegradation</i> , 2010, 21, 393-401.	3.0	3
70	Cathodes for microbial fuel cells that improve the removal of copper ions from wastewater concomitant with power generation using the response surface methodology. <i>International Journal of Energy Research</i> , 0, , .	4.5	0