

César Iván Torres

List of Publications by Year in descending order

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79
papers

6,146
citations

94433

37
h-index

82547

72
g-index

81
all docs

81
docs citations

81
times ranked

3907
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced antifouling and flux performances of a composite membrane via incorporating TiO_2 functionalized with hydrophilic groups of L-cysteine for nanofiltration. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1544-1560.	3.2	5
2	Determining global trends in syngas fermentation research through a bibliometric analysis. <i>Journal of Environmental Management</i> , 2022, 307, 114522.	7.8	9
3	Electrochemically Driven Photosynthetic Electron Transport in Cyanobacteria Lacking Photosystem II. <i>Journal of the American Chemical Society</i> , 2022, 144, 2933-2942.	13.7	20
4	Organic carbon metabolism is a main determinant of hydrogen demand and dynamics in anaerobic soils. <i>Chemosphere</i> , 2022, 303, 134877.	8.2	3
5	Recent progress in treatment of dyes wastewater using microbial-electro-Fenton technology. <i>RSC Advances</i> , 2022, 12, 17104-17137.	3.6	45
6	Effect of pH on bacterial distributions within cathodic biofilm of the microbial fuel cell with maltodextrin as the substrate. <i>Chemosphere</i> , 2021, 265, 129088.	8.2	20
7	Carboxylates and alcohols production in an autotrophic hydrogen-based membrane biofilm reactor. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2338-2347.	3.3	11
8	The influence of electrokinetic bioremediation on subsurface microbial communities at a perchloroethylene contaminated site. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 6489-6497.	3.6	3
9	A critical evaluation of the pH split and associated effects in bioelectrochemical processes. <i>Chemical Engineering Journal</i> , 2021, 422, 130155.	12.7	45
10	Coupled electrokinetic and biological remediation method leads to improved treatment of chlorinated solvents at high sulfate, transport limited sites. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2926-2937.	2.4	5
11	High-rate stabilization of primary sludge in a single-chamber microbial hydrogen peroxide producing cell. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1124-1131.	2.4	7
12	pH Dependency in Anode Biofilms of <i>Thermincola ferriacetica</i> Suggests a Proton-Dependent Electrochemical Response. <i>Journal of the American Chemical Society</i> , 2018, 140, 5527-5534.	13.7	34
13	Simultaneous fermentation of cellulose and current production with an enriched mixed culture of thermophilic bacteria in a microbial electrolysis cell. <i>Microbial Biotechnology</i> , 2018, 11, 63-73.	4.2	26
14	Impact of carbon monoxide partial pressures on methanogenesis and medium chain fatty acids production during ethanol fermentation. <i>Biotechnology and Bioengineering</i> , 2018, 115, 341-350.	3.3	33
15	Geobacter Dominates the Inner Layers of a Stratified Biofilm on a Fluidized Anode During Brewery Wastewater Treatment. <i>Frontiers in Microbiology</i> , 2018, 9, 378.	3.5	48
16	Microbial electrochemical cells as an alternative to biochemical methane potential tests for analyzing batch anaerobic digestion kinetics. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 757-765.	0.0	0
17	Improved characterization of anaerobic digestion kinetics of mixed sludges with and without thermally pretreated WAS.. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 775-781.	0.0	0
18	Maximizing Coulombic recovery and solids reduction from primary sludge by controlling retention time and pH in a flat-plate microbial electrolysis cell. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 333-339.	2.4	13

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19	Electrochemical techniques reveal that total ammonium stress increases electron flow to anode respiration in mixed-species bacterial anode biofilms. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1151-1159.	3.3	21
20	A biologically-inspired electro-chemical reference electrode. , 2017, , .		0
21	Intimate coupling of an N-doped TiO ₂ photocatalyst and anode respiring bacteria for enhancing 4-chlorophenol degradation and current generation. <i>Chemical Engineering Journal</i> , 2017, 317, 882-889.	12.7	77
22	Complete nitrogen removal by simultaneous nitrification and denitrification in flat-panel air-cathode microbial fuel cells treating domestic wastewater. <i>Chemical Engineering Journal</i> , 2017, 316, 673-679.	12.7	140
23	Understanding the impact of operational conditions on performance of microbial peroxide producing cells. <i>Journal of Power Sources</i> , 2017, 356, 448-458.	7.8	21
24	H ₂ O ₂ Production in Microbial Electrochemical Cells Fed with Primary Sludge. <i>Environmental Science & Technology</i> , 2017, 51, 6139-6145.	10.0	44
25	Changes in Glucose Fermentation Pathways as a Response to the Free Ammonia Concentration in Microbial Electrolysis Cells. <i>Environmental Science & Technology</i> , 2017, 51, 13461-13470.	10.0	34
26	Critical transport rates that limit the performance of microbial electrochemistry technologies. <i>Bioresource Technology</i> , 2016, 215, 265-273.	9.6	91
27	The effect of pH and buffer concentration on anode biofilms of <i>Thermincola ferriacetica</i> . <i>Bioelectrochemistry</i> , 2016, 112, 47-52.	4.6	34
28	Shifting the balance of fermentation products between hydrogen and volatile fatty acids: microbial community structure and function. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw195.	2.7	14
29	Tailoring Microbial Electrochemical Cells for Production of Hydrogen Peroxide at High Concentrations and Efficiencies. <i>ChemSusChem</i> , 2016, 9, 3345-3352.	6.8	60
30	Evaluating biochemical methane production from brewer's spent yeast. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1195-1204.	3.0	19
31	Application of microbial electrolysis cells to treat spent yeast from an alcoholic fermentation. <i>Bioresource Technology</i> , 2016, 200, 342-349.	9.6	29
32	Reduced overpotentials in microbial electrolysis cells through improved design, operation, and electrochemical characterization. <i>Chemical Engineering Journal</i> , 2016, 287, 181-188.	12.7	80
33	Relieving the fermentation inhibition enables high electron recovery from landfill leachate in a microbial electrolysis cell. <i>RSC Advances</i> , 2016, 6, 6658-6664.	3.6	23
34	Draft Genome Sequence of the Gram-Positive Thermophilic Iron Reducer <i>Thermincola ferriacetica</i> Strain Z-0001. <i>Genome Announcements</i> , 2015, 3, .	0.8	12
35	Genomes of <i>Geoalkalibacter ferrihydriticus</i> Z-0531 and <i>Geoalkalibacter subterraneus</i> Red1, Two Haloalkaliphilic Metal-Reducing Deltaproteobacteria. <i>Genome Announcements</i> , 2015, 3, .	0.8	6
36	Characterization of Electrical Current-Generation Capabilities from Thermophilic Bacterium <i>Thermoanaerobacter pseudethanolicus</i> Using Xylose, Glucose, Cellobiose, or Acetate with Fixed Anode Potentials. <i>Environmental Science & Technology</i> , 2015, 49, 14725-14731.	10.0	42

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37	Anode Biofilms of <i>Geoalkalibacter ferrihydriticus</i> Exhibit Electrochemical Signatures of Multiple Electron Transport Pathways. <i>Langmuir</i> , 2015, 31, 12552-12559.	3.5	34
38	Effect of Pulsed Electric Field Pretreatment on Primary Sludge for Enhanced Bioavailability and Energy Capture. <i>Environmental Engineering Science</i> , 2015, 32, 831-837.	1.6	16
39	Effects of pre-fermentation and pulsed-electric-field treatment of primary sludge in microbial electrochemical cells. <i>Bioresource Technology</i> , 2015, 195, 83-88.	9.6	46
40	Application of Microbial Electrochemical Cells (MXCs) as Real- Time Sensors of Bioavailability from Sludge Pretreatment Technologies. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 1-12.	0.0	0
41	Continuous hydrogen peroxide production in microbial electrochemical cells. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 1-5.	0.0	0
42	Coupling dark metabolism to electricity generation using photosynthetic cocultures. <i>Biotechnology and Bioengineering</i> , 2014, 111, 223-231.	3.3	28
43	On the importance of identifying, characterizing, and predicting fundamental phenomena towards microbial electrochemistry applications. <i>Current Opinion in Biotechnology</i> , 2014, 27, 107-114.	6.6	44
44	Successful operation of continuous reactors at short retention times results in high-density, fast-rate <i>Dehalococcoides dechlorinating</i> cultures. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2729-2737.	3.6	28
45	Fermentation pre-treatment of landfill leachate for enhanced electron recovery in a microbial electrolysis cell. <i>Bioresource Technology</i> , 2014, 151, 151-158.	9.6	84
46	Dynamic Potential-Dependent Electron Transport Pathway Shifts in Anode Biofilms of <i>Geobacter sulfurreducens</i> . <i>ChemSusChem</i> , 2014, 7, 3413-3419.	6.8	66
47	Buffer pK_a and Transport Govern the Concentration Overpotential in Electrochemical Oxygen Reduction at Neutral pH. <i>ChemElectroChem</i> , 2014, 1, 1909-1915.	3.4	32
48	Combining microbial cultures for efficient production of electricity from butyrate in a microbial electrochemical cell. <i>Bioresource Technology</i> , 2014, 169, 169-174.	9.6	31
49	Improved current and power density with a micro-scale microbial fuel cell due to a small characteristic length. <i>Biosensors and Bioelectronics</i> , 2014, 61, 587-592.	10.1	59
50	Light-responsive current generation by phototrophically enriched anode biofilms dominated by green sulfur bacteria. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1020-1027.	3.3	25
51	Kinetic, Electrochemical, and Microscopic Characterization of the Thermophilic, Anode-Respiring Bacterium <i>Thermincola ferriacetica</i> . <i>Environmental Science & Technology</i> , 2013, 47, 4934-4940.	10.0	105
52	Generation of High Current Densities by Pure Cultures of Anode-Respiring <i>Geoalkalibacter</i> spp. under Alkaline and Saline Conditions in Microbial Electrochemical Cells. <i>MBio</i> , 2013, 4, e00144-13.	4.1	82
53	Enrichment and Analysis of Anode-Respiring Bacteria from Diverse Anaerobic Inocula. <i>Environmental Science & Technology</i> , 2012, 46, 10349-10355.	10.0	94
54	Improving microbial fuel cells. <i>Membrane Technology</i> , 2012, 2012, 8-9.	0.1	5

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55	Advancements in Molecular Techniques and Applications in Environmental Engineering. <i>Water Environment Research</i> , 2012, 84, 814-844.	2.7	3
56	The role of homoacetogenic bacteria as efficient hydrogen scavengers in microbial electrochemical cells (MXCs). <i>Water Science and Technology</i> , 2012, 65, 1-6.	2.5	23
57	On Electron Transport through <i>Geobacter</i> Biofilms. <i>ChemSusChem</i> , 2012, 5, 1099-1105.	6.8	184
58	Importance of OH [•] Transport from Cathodes in Microbial Fuel Cells. <i>ChemSusChem</i> , 2012, 5, 1071-1079.	6.8	133
59	A 1/4L-scale micromachined microbial fuel cell having high power density. <i>Lab on A Chip</i> , 2011, 11, 1110.	6.0	126
60	Fate of Sucralose During Wastewater Treatment. <i>Environmental Engineering Science</i> , 2011, 28, 325-331.	1.6	75
61	Molecular Biological Methods in Environmental Engineering. <i>Water Environment Research</i> , 2011, 83, 927-955.	2.7	7
62	Analysis of a microbial electrochemical cell using the proton condition in biofilm (PCBIOFILM) model. <i>Bioresource Technology</i> , 2011, 102, 253-262.	9.6	100
63	Hydrogen consumption in microbial electrochemical systems (MXCs): The role of homo-acetogenic bacteria. <i>Bioresource Technology</i> , 2011, 102, 263-271.	9.6	91
64	Microbial Electrochemical Cells as a Research Tool to Probe Microbial and Biofilm Kinetics. <i>Proceedings of the Water Environment Federation</i> , 2010, 2010, 52-60.	0.0	0
65	Microbial community structure in a biofilm anode fed with a fermentable substrate: The significance of hydrogen scavengers. <i>Biotechnology and Bioengineering</i> , 2010, 105, 69-78.	3.3	148
66	Evaluating the impacts of migration in the biofilm anode using the model PCBIOFILM. <i>Electrochimica Acta</i> , 2010, 55, 6964-6972.	5.2	38
67	A kinetic perspective on extracellular electron transfer by anode-respiring bacteria. <i>FEMS Microbiology Reviews</i> , 2010, 34, 3-17.	8.6	506
68	Syntrophic interactions among anode respiring bacteria (ARB) and Non-ARB in a biofilm anode: electron balances. <i>Biotechnology and Bioengineering</i> , 2009, 103, 513-523.	3.3	208
69	Effects of Substrate Diffusion and Anode Potential on Kinetic Parameters for Anode-Respiring Bacteria. <i>Environmental Science & Technology</i> , 2009, 43, 7571-7577.	10.0	144
70	Fate of H ₂ in an Upflow Single-Chamber Microbial Electrolysis Cell Using a Metal-Catalyst-Free Cathode. <i>Environmental Science & Technology</i> , 2009, 43, 7971-7976.	10.0	190
71	Selecting Anode-Respiring Bacteria Based on Anode Potential: Phylogenetic, Electrochemical, and Microscopic Characterization. <i>Environmental Science & Technology</i> , 2009, 43, 9519-9524.	10.0	442
72	Proton transport inside the biofilm limits electrical current generation by anode-respiring bacteria. <i>Biotechnology and Bioengineering</i> , 2008, 100, 872-881.	3.3	471

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73	Intimate coupling of photocatalysis and biodegradation in a photocatalytic circulatingâ€bed biofilm reactor. <i>Biotechnology and Bioengineering</i> , 2008, 101, 83-92.	3.3	111
74	Evaluation of energy-conversion efficiencies in microbial fuel cells (MFCs) utilizing fermentable and non-fermentable substrates. <i>Water Research</i> , 2008, 42, 1501-1510.	11.3	336
75	Kinetic Experiments for Evaluating the Nernstâ€™Monod Model for Anode-Respiring Bacteria (ARB) in a Biofilm Anode. <i>Environmental Science & Technology</i> , 2008, 42, 6593-6597.	10.0	221
76	Carbonate Species as OH ⁻ Carriers for Decreasing the pH Gradient between Cathode and Anode in Biological Fuel Cells. <i>Environmental Science & Technology</i> , 2008, 42, 8773-8777.	10.0	108
77	Understanding the Distinguishing Features of a Microbial Fuel Cell as a Biomass-Based Renewable Energy Technology. , 2008, , 1-28.		11
78	Conduction-based modeling of the biofilm anode of a microbial fuel cell. <i>Biotechnology and Bioengineering</i> , 2007, 98, 1171-1182.	3.3	431
79	Kinetics of consumption of fermentation products by anode-respiring bacteria. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 689-697.	3.6	178