Eduardo CortÃ³n

List of Publications by Year
in descending order

50 papers	1,080 citations	394421 19 h-index	414414 32 g-index
51 all docs	51 docs citations	51 times ranked	1476 citing authors

#	Article	IF	Citations
1	Analytical applications of microbial fuel cells. Part I: Biochemical oxygen demand. Biosensors and Bioelectronics, 2015, 63, 580-590.	10.1	117
2	Analytical applications of microbial fuel cells. Part II: Toxicity, microbial activity and quantification, single analyte detection and other uses. Biosensors and Bioelectronics, 2015, 63, 591-601.	10.1	95
3	Enhanced Analytical Performance of Paper Microfluidic Devices by Using Fe₃O₄ Nanoparticles, MWCNT, and Graphene Oxide. ACS Applied Materials & Interfaces, 2016, 8, 11-15.	8.0	87
4	Osmium complexes bearing functional groups: building blocks for integrated chemical systems. Journal of Electroanalytical Chemistry, 1998, 445, 89-94.	3.8	82
5	Rapid identification of viable Escherichia coli subspecies with an electrochemical screen-printed biosensor array. Biosensors and Bioelectronics, 2003, 18, 907-916.	10.1	71
6	Archaea-based microbial fuel cell operating at high ionic strength conditions. Extremophiles, 2011, 15, 633-642.	2.3	59
7	Voltamperometric Discrimination of Urea and Melamine Adulterated Skimmed Milk Powder. Sensors, 2012, 12, 12220-12234.	3.8	44
8	Performance of planar and cylindrical carbon electrodes at sedimentary microbial fuel cells. Bioresource Technology, 2012, 126, 328-335.	9.6	43
9	Label-free counting of Escherichia coli cells in nanoliter droplets using 3D printed microfluidic devices with integrated contactless conductivity detection. Analytica Chimica Acta, 2019, 1071, 36-43.	5.4	38
10	Isolation and Characterization of a Novel Electrogenic Bacterium, Dietzia sp. RNV-4. PLoS ONE, 2017, 12, e0169955.	2.5	37
11	Kinetics and binding properties of cloramphenicol imprinted polymers. Journal of Non-Crystalline Solids, 2007, 353, 974-980.	3.1	30
12	Hydrogen production in two-chamber MEC using a low-cost and biodegradable poly(vinyl) alcohol/chitosan membrane. Bioresource Technology, 2021, 319, 124168.	9.6	30
13	Comparative Survival Analysis ofDeinococcus radioduransand the HaloarchaeaNatrialba magadiiandHaloferax volcaniiExposed to Vacuum Ultraviolet Irradiation. Astrobiology, 2011, 11, 1034-1040.	3.0	26
14	Characterization of Lactobacillus Carbohydrate Fermentation Activity Using Immobilized Cell Technique. Biotechnology Progress, 2000, 16, 59-63.	2.6	24
15	A new microbial biosensor for organic water pollution based on measurement of carbon dioxide production. Sensors and Actuators B: Chemical, 2010, 148, 103-109.	7.8	24
16	Low Cost Layer by Layer Construction of CNT/Chitosan Flexible Paperâ€based Electrodes: A Versatile Electrochemical Platform for Point of Care and Point of Need Testing. Electroanalysis, 2018, 30, 497-508.	2.9	24
17	Fused and unzipped carbon nanotubes, electrochemically treated, for selective determination of dopamine and serotonin. Electrochimica Acta, 2018, 283, 338-348.	5.2	24
18	Characterization of a new composite membrane for point of need paper-based micro-scale microbial fuel cell analytical devices. PLoS ONE, 2019, 14, e0222538.	2.5	24

#	Article	IF	Citations
19	Understanding galvanic interactions between chalcopyrite and magnetite in acid medium to improve copper (Bio)Leaching. Electrochimica Acta, 2018, 265, 569-576.	5.2	23
20	Microbial Fuel Cells Applied to the Metabolically Based Detection of Extraterrestrial Life. Astrobiology, 2010, 10, 965-971.	3.0	21
21	Assessing the effect of oxygen and microbial inhibitors to optimize ferricyanide-mediated BOD assay. Talanta, 2011, 85, 455-462.	5.5	15
22	A review on power management systems: An electronic tool to enable microbial fuel cells for powering range of electronic appliances. Journal of Power Sources, 2022, 517, 230688.	7.8	15
23	Membrane entrapped Saccharomyces cerevisiae in a biosensor-like device as a generic rapid method to study cellular metabolism. Journal of Proteomics, 2007, 70, 455-464.	2.4	14
24	CO2 - Potentiometric Determination and Electrode Construction, a Hands-on Approach. Journal of Chemical Education, 1999, 76, 1253.	2.3	10
25	Learning Stoichiometry with Hamburger Sandwiches. Journal of Chemical Education, 2003, 80, 1021.	2.3	10
26	In Situ Search for Extraterrestrial Life: A Microbial Fuel Cellâ€“Based Sensor for the Detection of Photosynthetic Metabolism. Astrobiology, 2015, 15, 717-727.	3.0	10
27	Sorting the main bottlenecks to use paper-based microbial fuel cells as convenient and practical analytical devices for environmental toxicity testing. Chemosphere, 2021, 265, 129101.	8.2	10
28	Effect of milk proteins on the behavior of a biosensor based on poly(allylamine) containing an osmium complex wired to redox enzymes. Journal of Electroanalytical Chemistry, 2001, 511, 8-12.	3.8	9
29	Potentiometric Determination of CO2 Concentration in the Gaseous Phase: Applications in Different Laboratory Activities. Journal of Chemical Education, 2000, 77, 1188.	2.3	8
30	Effect of milk proteins on the behavior of a biosensor based on poly(allylamine) containing an osmium complex wired to redox enzymes. Journal of Electroanalytical Chemistry, 2001, 511, 1-7.	3.8	8
31	Reagent-free flow-injection amperometric sensor for quantification and speciation of iron for bio-hydrometallurgical applications. Sensors and Actuators B: Chemical, 2015, 220, 448-455.	7.8	8
32	Interactions of mimic weathered pyrite surfaces (FeS2) with acidic culture media (0â€¯K): An approach for (bio)leaching applications. Hydrometallurgy, 2018, 182, 128-135.	4.3	6
33	Hydrophobic Forces Are Relevant to Bacteria-Nanoparticle Interactions: Pseudomonas putida Capture Efficiency by Using Arginine, Cysteine or Oxalate Wrapped Magnetic Nanoparticles. Colloids and Interfaces, 2018, 2, 29.	2.1	6
34	Towards a versatile and economic Chagas Disease point-of-care testing system, by integrating loop-mediated isothermal amplification and contactless/label-free conductivity detection. PLoS Neglected Tropical Diseases, 2021, 15, e0009406.	3.0	6
35	Simple flow injection analysis system for determination of added sugars in dairy products. Journal of Dairy Research, 1998, 65, 675-680.	1.4	5
36	A new P. putida instrumental toxicity bioassay. Environmental Monitoring and Assessment, 2015, 187, 294.	2.7	3

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37	Attachment of Leptospirillum sp. to chemically modified pyrite surfaces. Fast and simple electrochemical monitoring of bacterial-mineral interactions. Hydrometallurgy, 2021, 199, 105534.	4.3	3
38	A Novel Electrochemical Method for the Identification of Microorganisms. Electroanalysis, 2001, 13, 999-1002.	2.9	2
39	Metabolism ofKlebsiella pneumoniaefreeze-dried cultures for the design of BOD bioassays. Letters in Applied Microbiology, 2012, 55, 370-375.	2.2	2
40	A Nonradioactive Simulation of the Viking Mission Labeled-Release Experiment: A Search for Evidence of Life. Journal of Chemical Education, 2002, 79, 1105.	2.3	1
41	Development of a Novel Method for in vivo Determination of Activation Energy of Glucose Transport Across S. cerevisiae Cellular Membranes. A Biosensor-like Approach. Sensors, 2009, 9, 1599-1608.	3.8	1
42	UV habitability and dM stars: an approach for evaluation of biological survival. Proceedings of the International Astronomical Union, 2009, 5, 443-445.	0.0	1
43	Flares and habitability. Proceedings of the International Astronomical Union, 2011, 7, 405-409.	0.0	1
44	A simple laser-based device for simultaneous microbial culture and absorbance measurement. Instruments and Experimental Techniques, 2013, 56, 472-476.	0.5	1
45	Leaching of Pyrite by <i>Acidithiobacillus ferrooxidans</i> Monitored by Electrochemical Methods. Solid State Phenomena, 0, 262, 541-544.	0.3	1
46	Flow-injection amperometric sensor for quantification and speciation of iron. , 2014, , .		0
47	Development of an optical sensor for rapid and automatic gram classification of microorganisms. , 2014, , .		0
48	Genetic Approaches for Improving Performance of Microbial Fuel Cells: Part A. , 2018, , 243-285.		0
49	An apta-aggregation based machine learning assay for rapid quantification of lysozyme through texture parameters. PLoS ONE, 2021, 16, e0248159.	2.5	0
50	BIOASSAYS | Microbial Tests â˜†. , 2017, , 283-283.		0