

Abraham Esteve-Nunez

List of Publications by Year in descending order

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64
papers

3,066
citations

136940

32
h-index

161844

54
g-index

70
all docs

70
docs citations

70
times ranked

2564
citing authors

#	ARTICLE	IF	CITATIONS
1	C ₂ Type Cytochromes Wire Electricity-Producing Bacteria to Electrodes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4874-4877.	13.8	209
2	Fluorescent properties of C ₂ type cytochromes reveal their potential role as an extracytoplasmic electron sink in <i>Geobacter sulfurreducens</i> . <i>Environmental Microbiology</i> , 2008, 10, 497-505.	3.8	209
3	Growth of <i>Geobacter sulfurreducens</i> under nutrient-limiting conditions in continuous culture. <i>Environmental Microbiology</i> , 2005, 7, 641-648.	3.8	185
4	Whole Cell Electrochemistry of Electricity-Producing Microorganisms Evidence an Adaptation for Optimal Exocellular Electron Transport. <i>Environmental Science & Technology</i> , 2008, 42, 2445-2450.	10.0	155
5	The proteome of dissimilatory metal-reducing microorganism <i>Geobacter sulfurreducens</i> under various growth conditions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1198-1206.	2.3	128
6	Electrochemical insight into the mechanism of electron transport in biofilms of <i>Geobacter sulfurreducens</i> . <i>Electrochimica Acta</i> , 2011, 56, 10791-10795.	5.2	109
7	PnrA, a new nitroreductase-family enzyme in the TNT-degrading strain <i>Pseudomonas putida</i> JLR11. <i>Environmental Microbiology</i> , 2005, 7, 1211-1219.	3.8	101
8	Microbial Electrochemical Technologies for Wastewater Treatment: Principles and Evolution from Microbial Fuel Cells to Bioelectrochemical-Based Constructed Wetlands. <i>Water (Switzerland)</i> , 2018, 10, 1128.	2.7	91
9	Metabolism of 2,4,6-Trinitrotoluene by <i>Pseudomonas</i> sp. JLR11. <i>Environmental Science & Technology</i> , 1998, 32, 3802-3808.	10.0	90
10	Microbial electrochemistry for bioremediation. <i>Environmental Science and Ecotechnology</i> , 2020, 1, 100013.	13.5	83
11	Electroactive biochar outperforms highly conductive carbon materials for biodegrading pollutants by enhancing microbial extracellular electron transfer. <i>Carbon</i> , 2019, 146, 597-609.	10.3	79
12	Genetic Characterization of a Single Bifunctional Enzyme for Fumarate Reduction and Succinate Oxidation in <i>Geobacter sulfurreducens</i> and Engineering of Fumarate Reduction in <i>Geobacter metallireducens</i> . <i>Journal of Bacteriology</i> , 2006, 188, 450-455.	2.2	77
13	Silica Colloid Formation Enhances Performance of Sediment Microbial Fuel Cells in a Low Conductivity Soil. <i>Environmental Science & Technology</i> , 2013, 47, 2117-2122.	10.0	73
14	Direct Correlation between Rates of Anaerobic Respiration and Levels of mRNA for Key Respiratory Genes in <i>Geobacter sulfurreducens</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 5183-5189.	3.1	67
15	A severe reduction in the cytochrome C content of <i>Geobacter sulfurreducens</i> eliminates its capacity for extracellular electron transfer. <i>Environmental Microbiology Reports</i> , 2015, 7, 219-226.	2.4	65
16	DNA Microarray and Proteomic Analyses of the RpoS Regulon in <i>Geobacter sulfurreducens</i> . <i>Journal of Bacteriology</i> , 2006, 188, 2792-2800.	2.2	62
17	TNT biotransformation: when chemistry confronts mineralization. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 267-277.	3.6	61
18	ATR-SEIRAs characterization of surface redox processes in <i>G. sulfurreducens</i> . <i>Bioelectrochemistry</i> , 2010, 78, 25-29.	4.6	61

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19	Microbial-electrochemical bioremediation and detoxification of dibenzothiophene-polluted soil. <i>Chemosphere</i> , 2014, 101, 61-65.	8.2	61
20	Electroactive biofilm-based constructed wetland (EABB-CW): A mesocosm-scale test of an innovative setup for wastewater treatment. <i>Science of the Total Environment</i> , 2019, 659, 796-806.	8.0	60
21	Assimilation of Nitrogen from Nitrite and Trinitrotoluene in <i>Pseudomonas putida</i> JLR11. <i>Journal of Bacteriology</i> , 2005, 187, 396-399.	2.2	59
22	Merging microbial electrochemical systems with electrocoagulation pretreatment for achieving a complete treatment of brewery wastewater. <i>Chemical Engineering Journal</i> , 2017, 330, 1068-1074.	12.7	57
23	Strategies for merging microbial fuel cell technologies in water desalination processes: Start-up protocol and desalination efficiency assessment. <i>Journal of Power Sources</i> , 2017, 356, 519-528.	7.8	50
24	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
25	Cleaning-up atrazine-polluted soil by using Microbial Electroremediating Cells. <i>Chemosphere</i> , 2016, 161, 365-371.	8.2	46
26	Electroactive Biochar for Large-Scale Environmental Applications of Microbial Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18198-18212.	6.7	46
27	Comparative Performance of Microbial Desalination Cells Using Air Diffusion and Liquid Cathode Reactions: Study of the Salt Removal and Desalination Efficiency. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	42
28	Preferential Reduction of Fe(III) over Fumarate by <i>Geobacter sulfurreducens</i> . <i>Journal of Bacteriology</i> , 2004, 186, 2897-2899.	2.2	41
29	The Planktonic Relationship Between Fluid-Like Electrodes and Bacteria: Wiring in Motion. <i>ChemSusChem</i> , 2017, 10, 693-700.	6.8	40
30	Biological and Bioelectrochemical Systems for Hydrogen Production and Carbon Fixation Using Purple Phototrophic Bacteria. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	36
31	Bioelectroventing: an electrochemical-assisted bioremediation strategy for cleaning atrazine-polluted soils. <i>Microbial Biotechnology</i> , 2018, 11, 50-62.	4.2	33
32	Opportunities behind the unusual ability of <i>geobacter sulfurreducens</i> for exocellular respiration and electricity production. <i>Energy and Environmental Science</i> , 2011, 4, 2066.	30.8	28
33	Differential protein expression in the metal-reducing bacterium <i>Geobacter sulfurreducens</i> strain PCA grown with fumarate or ferric citrate. <i>Proteomics</i> , 2006, 6, 632-640.	2.2	27
34	Silica immobilization of <i>Geobacter sulfurreducens</i> for constructing ready-to-use artificial bioelectrodes. <i>Microbial Biotechnology</i> , 2018, 11, 39-49.	4.2	27
35	Novel bioelectrochemical strategies for domesticating the electron flow in constructed wetlands. <i>Science of the Total Environment</i> , 2020, 735, 139522.	8.0	27
36	Computational prediction of RpoS and RpoD regulatory sites in <i>Geobacter sulfurreducens</i> using sequence and gene expression information. <i>Gene</i> , 2006, 384, 73-95.	2.2	26

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37	Strategies for Reducing the Start-up Operation of Microbial Electrochemical Treatments of Urban Wastewater. <i>Energies</i> , 2015, 8, 14064-14077.	3.1	25
38	Stimulating soil microorganisms for mineralizing the herbicide isoproturon by means of microbial electroremediating cells. <i>Microbial Biotechnology</i> , 2016, 9, 369-380.	4.2	25
39	Integrating a microbial electrochemical system into a classical wastewater treatment configuration for removing nitrogen from low COD effluents. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 884-893.	2.4	24
40	A new concept in constructed wetlands: assessment of aerobic electroconductive biofilters. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1312-1323.	2.4	24
41	Anodic shifting of the microbial community profile to enhance oxidative metabolism in soil. <i>Soil Biology and Biochemistry</i> , 2018, 116, 131-138.	8.8	22
42	Designing strategies for operating Microbial Electrochemical Systems to clean up polluted soils under non-flooded conditions. <i>Bioelectrochemistry</i> , 2018, 124, 142-148.	4.6	20
43	Desalination of brackish water using a microbial desalination cell: Analysis of the electrochemical behaviour. <i>Electrochimica Acta</i> , 2021, 388, 138570.	5.2	18
44	A review on antibiotics removal: Leveraging the combination of grey and green techniques. <i>Science of the Total Environment</i> , 2022, 838, 156427.	8.0	18
45	An in-situ surface electrochemistry approach toward whole-cell studies: Charge transfer between <i>Geobacter sulfurreducens</i> and electrified metal/electrolyte interfaces through linker molecules. <i>Electrochimica Acta</i> , 2013, 112, 933-942.	5.2	17
46	Where do we stand to oversee the coronaviruses in aqueous and aerosol environment? Characteristics of transmission and possible curb strategies. <i>Chemical Engineering Journal</i> , 2021, 413, 127522.	12.7	15
47	Detoxification of wastewater containing pharmaceuticals using horizontal flow bioelectrochemical filter. <i>Bioresource Technology Reports</i> , 2019, 7, 100296.	2.7	13
48	Multi-Criteria Evaluation and Sensitivity Analysis for the Optimal Location of Constructed Wetlands (METland) at Oceanic and Mediterranean Areas. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5415.	2.6	13
49	Assessing METland® Design and Performance Through LCA: Techno-Environmental Study With Multifunctional Unit Perspective. <i>Frontiers in Microbiology</i> , 2021, 12, 652173.	3.5	13
50	An in situ surface electrochemistry approach towards whole-cell studies: the structure and reactivity of a <i>Geobacter sulfurreducens</i> submonolayer on electrified metal/electrolyte interfaces. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22229-22236.	2.8	12
51	Screen-Printed Electrodes: New Tools for Developing Microbial Electrochemistry at Microscale Level. <i>Energies</i> , 2015, 8, 13211-13221.	3.1	12
52	Bed electrodes in microbial electrochemistry: setup, operation and characterization. <i>ChemTexts</i> , 2019, 5, 1.	1.9	12
53	Electrodes boost microbial metabolism to mineralize antibiotics in manure. <i>Bioelectrochemistry</i> , 2019, 128, 283-290.	4.6	12
54	Evaluating bioelectrochemically-assisted constructed wetland (METland®) for treating wastewater: Analysis of materials, performance and electroactive communities. <i>Chemical Engineering Journal</i> , 2022, 440, 135748.	12.7	12

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55	Upgrading fluidized bed bioelectrochemical reactors for treating brewery wastewater by using a fluid-like electrode. <i>Chemical Engineering Journal</i> , 2021, 406, 127103.	12.7	11
56	Algae-Assisted Microbial Desalination Cell: Analysis of Cathode Performance and Desalination Efficiency Assessment. <i>Processes</i> , 2021, 9, 2011.	2.8	11
57	Draft Genome Sequence of <i>Pseudomonas putida</i> JLR11, a Facultative Anaerobic 2,4,6-Trinitrotoluene Biotransforming Bacterium. <i>Genome Announcements</i> , 2015, 3, .	0.8	7
58	Geomarkers versus Biomarkers: Paleoenvironmental and Astrobiological Significance. <i>Ambio</i> , 2007, 36, 425-426.	5.5	6
59	Microbial Electrochemical Fluidized Bed Reactor: A Promising Solution for Removing Pollutants From Pharmaceutical Industrial Wastewater. <i>Frontiers in Microbiology</i> , 2021, 12, 737112.	3.5	5
60	Microbial Electrochemically Assisted Treatment Wetlands: Current Flow Density as a Performance Indicator in Real-Scale Systems in Mediterranean and Northern European Locations. <i>Frontiers in Microbiology</i> , 2022, 13, 843135.	3.5	5
61	Impact of chemical and microbiological water quality on bacterial community assemblage of San Juan River (Sierra del Rosario, Biosphere Reserve, Cuba). <i>Tecnología Y Ciencias Del Agua</i> , 2021, 12, 82-123.	0.3	4
62	Physiological Evidence for Respiration of TNT by <i>Pseudomonas</i> sp. JLR11. , 2004, , 229-240.		3
63	Supporting Operational Decisions on Desalination Plants from Process Modelling and Simulation to Monitoring and Automated Control with Machine Learning. <i>Lecture Notes in Business Information Processing</i> , 2020, , 150-164.	1.0	2
64	Metals recovery from wastewater by microbial electrochemical technologies. , 2020, , 281-307.		0