

Juan Pablo Busalmen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2754135/publications.pdf>

Version: 2024-02-01

42
papers

1,645
citations

331670

21
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

1581
citing authors

#	ARTICLE	IF	CITATIONS
1	C α -Type Cytochromes Wire Electricity-Producing Bacteria to Electrodes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4874-4877.	13.8	209
2	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
3	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
4	New evidences on the catalase mechanism of microbial corrosion. <i>Electrochimica Acta</i> , 2002, 47, 1857-1865.	5.2	108
5	Charge accumulation and electron transfer kinetics in <i>Geobacter sulfurreducens</i> biofilms. <i>Energy and Environmental Science</i> , 2012, 5, 6188.	30.8	105
6	Spectroscopic Slicing to Reveal Internal Redox Gradients in Electricity-Producing Biofilms. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 925-928.	13.8	75
7	Limitations for Current Production in <i>Geobacter sulfurreducens</i> Biofilms. <i>ChemSusChem</i> , 2013, 6, 711-720.	6.8	69
8	Evaluation of potato-processing wastewater treatment in a microbial fuel cell. <i>Bioresource Technology</i> , 2012, 105, 81-87.	9.6	63
9	Electrochemical Polarization-Induced Changes in the Growth of Individual Cells and Biofilms of <i>Pseudomonas fluorescens</i> (ATCC 17552). <i>Applied and Environmental Microbiology</i> , 2005, 71, 6235-6240.	3.1	62
10	ATR-SEIRAs characterization of surface redox processes in <i>G. sulfurreducens</i> . <i>Bioelectrochemistry</i> , 2010, 78, 25-29.	4.6	61
11	Stepping stones in the electron transport from cells to electrodes in <i>Geobacter sulfurreducens</i> biofilms. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10300.	2.8	58
12	Adhesion of <i>Pseudomonas fluorescens</i> (ATCC 17552) to Nonpolarized and Polarized Thin Films of Gold. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3188-3194.	3.1	55
13	Hydrocarbon bioremediation of a mineral-base contaminated waste from crude oil extraction by indigenous bacteria. <i>International Biodeterioration and Biodegradation</i> , 2001, 47, 233-238.	3.9	48
14	New ceramic electrodes allow reaching the target current density in bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2015, 8, 2707-2712.	30.8	43
15	Spectroelectrochemical Examination of the Interaction between Bacterial Cells and Gold Electrodes. <i>Langmuir</i> , 2007, 23, 6459-6466.	3.5	38
16	Physiological Stratification in Electricity-Producing Biofilms of <i>Geobacter sulfurreducens</i> . <i>ChemSusChem</i> , 2014, 7, 598-603.	6.8	36
17	The influence of the surface condition on the adhesion of <i>Pseudomonas fluorescens</i> (ATCC 17552) to copper and aluminium brass. <i>International Biodeterioration and Biodegradation</i> , 2002, 50, 61-66.	3.9	34
18	A long way to the electrode: how do <i>Geobacter</i> cells transport their electrons?. <i>Biochemical Society Transactions</i> , 2012, 40, 1274-1279.	3.4	33

#	ARTICLE	IF	CITATIONS
19	Influence of pH and ionic strength on adhesion of a wild strain of <i>Pseudomonas</i> sp. to titanium. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2001, 26, 303-308.	3.0	31
20	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
21	Stainless Steels Can Be Cathodically Protected Using Energy Stored at the Marine Sediment/Seawater Interface. <i>Environmental Science & Technology</i> , 2006, 40, 6473-6478.	10.0	24
22	The relay network of <i>Geobacter</i> biofilms. <i>Energy and Environmental Science</i> , 2016, 9, 2677-2681.	30.8	22
23	Proving <i>Geobacter</i> biofilm connectivity with confocal Raman microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 99-103.	3.8	21
24	Crystallographic orientation and electrode nature are key factors for electric current generation by <i>Geobacter sulfurreducens</i> . <i>Bioelectrochemistry</i> , 2014, 98, 11-19.	4.6	14
25	Layer-to-layer distance determines the performance of 3D bio-electrochemical lamellar anodes in microbial energy transduction processes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10019-10027.	10.3	13
26	Post-Mortem Changes in Adenosine Triphosphate and Related Compounds in Mantle of Squid (<i>Illex</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1997, 6, 43-56.	1.4	12
27	Energetics, electron uptake mechanisms and limitations of electroautotrophs growing on biocathodes – A review. <i>Bioresource Technology</i> , 2021, 342, 125893.	9.6	12
28	Changes in lipids and biochemical properties of actomyosin from pre- and post-spawned hake (<i>Merluccius hubbsi</i> Marini). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1995, 112, 743-748.	1.6	11
29	Influence of surface oxides on the adhesion of a wild strain of <i>Pseudomonas</i> sp. to aluminium brass. <i>International Biodeterioration and Biodegradation</i> , 2003, 52, 13-19.	3.9	11
30	Metabolic turnover and catalase activity of biofilms of <i>Pseudomonas fluorescens</i> (ATCC 17552) as related to copper corrosion. <i>Water Research</i> , 2010, 44, 2592-2600.	11.3	11
31	Changes in the electrochemical interface as a result of the growth of <i>Pseudomonas fluorescens</i> biofilms on gold. <i>Biotechnology and Bioengineering</i> , 2003, 82, 619-624.	3.3	10
32	Open circuit potentiometry reports on internal redox states of cells in <i>G. Sulfurreducens</i> biofilms. <i>Electrochimica Acta</i> , 2019, 303, 176-182.	5.2	10
33	Importance of Surface Chemistry in Bacterial Adhesion to Metals and Biocorrosion. <i>Corrosion Reviews</i> , 2004, 22, 277-306.	2.0	9
34	Hyperhalophilic archaeal biofilms: growth kinetics, structure, and antagonistic interaction in continuous culture. <i>Biofouling</i> , 2014, 30, 237-245.	2.2	8
35	Biochemical Capacitance of <i>Geobacter Sulfurreducens</i> Biofilms. <i>ChemSusChem</i> , 2015, 8, 2492-2495.	6.8	6
36	Electrochemistry of <i>R. palustris</i> Azul during phototrophic growth. <i>Electrochimica Acta</i> , 2020, 355, 136757.	5.2	6

#	ARTICLE	IF	CITATIONS
37	Unraveling Anaerobic Metabolisms in a Hypersaline Sediment. <i>Frontiers in Microbiology</i> , 2022, 13, 811432.	3.5	4
38	Biofilms of <i>Halobacterium salinarum</i> as a tool for phenanthrene bioremediation. <i>Biofouling</i> , 2020, 36, 564-575.	2.2	3
39	Respiratory Au nucleation and microelectrode techniques reveal key features of bacterial conductive matrix. <i>Environmental Science: Nano</i> , 2020, 7, 3189-3200.	4.3	2
40	Non-Carbonaceous Electrodes for Microbial Electrochemical Systems. , 2017, , 475-522.		1
41	Thermodynamic approach to simulate current densities of energy-harvesting microbial electrochemical systems fed with human urine. <i>Bioresource Technology Reports</i> , 2022, 18, 101058.	2.7	1
42	Transmission Electron Microscopy As A Relevant Tool In The Characterization Of Hybrid Nanostructures Of Au Bio-Mineralization By Electroactive Bacteria. <i>Microscopy and Microanalysis</i> , 2020, 26, 189-190.	0.4	0