

Xiao Deng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6705193/publications.pdf>

Version: 2024-02-01

18
papers

597
citations

933447

10
h-index

839539

18
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20
all docs

20
docs citations

20
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-heme cytochromes provide a pathway for survival in energy-limited environments. <i>Science Advances</i> , 2018, 4, eaao5682.	10.3	155
2	Cell-secreted Flavins Bound to Membrane Cytochromes Dictate Electron Transfer Reactions to Surfaces with Diverse Charge and pH. <i>Scientific Reports</i> , 2014, 4, 5628.	3.3	141
3	Prospective directions for biohydrometallurgy. <i>Hydrometallurgy</i> , 2020, 195, 105376.	4.3	67
4	Biogenic Iron Sulfide Nanoparticles to Enable Extracellular Electron Uptake in Sulfate-Reducing Bacteria. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5995-5999.	13.8	64
5	Electron Extraction from an Extracellular Electrode by <i>Desulfovibrio ferrophilus</i> Strain IS5 Without Using Hydrogen as an Electron Carrier. <i>Electrochemistry</i> , 2015, 83, 529-531.	1.4	43
6	Evidence for fungi and gold redox interaction under Earth surface conditions. <i>Nature Communications</i> , 2019, 10, 2290.	12.8	25
7	Electrode Potential Dependency of Single-Cell Activity Identifies the Energetics of Slow Microbial Electron Uptake Process. <i>Frontiers in Microbiology</i> , 2018, 9, 2744.	3.5	22
8	Biogenic Iron Sulfide Nanoparticles to Enable Extracellular Electron Uptake in Sulfate-Reducing Bacteria. <i>Angewandte Chemie</i> , 2020, 132, 6051-6055.	2.0	18
9	Defined and unknown roles of conductive nanoparticles for the enhancement of microbial current generation: A review. <i>Bioresource Technology</i> , 2022, 350, 126844.	9.6	16
10	Enhancement of cell growth by uncoupling extracellular electron uptake and oxidative stress production in sediment sulfate-reducing bacteria. <i>Environment International</i> , 2020, 144, 106006.	10.0	13
11	Mechanism of Anaerobic Microbial Corrosion Suppression by Mild Negative Cathodic Polarization on Carbon Steel. <i>Environmental Science and Technology Letters</i> , 2020, 7, 690-694.	8.7	8
12	Potential of <i>Acidithiobacillus ferrooxidans</i> to Grow on and Bioleach Metals from Mars and Lunar Regolith Simulants under Simulated Microgravity Conditions. <i>Microorganisms</i> , 2021, 9, 2416.	3.6	7
13	Single-Cell Mass Spectroscopic Analysis for Quantifying Active Metabolic Pathway Heterogeneity in a Bacterial Population on an Electrode. <i>Analytical Chemistry</i> , 2020, 92, 15616-15623.	6.5	6
14	Sequential removal of selenate, nitrate and sulfate and recovery of elemental selenium in a multi-stage bioreactor process with redox potential feedback control. <i>Journal of Hazardous Materials</i> , 2022, 424, 127539.	12.4	4
15	Self-standing Electrochemical Set-up to Enrich Anode-respiring Bacteria On-site. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	1
16	Innentitelbild: Biogenic Iron Sulfide Nanoparticles to Enable Extracellular Electron Uptake in Sulfate-Reducing Bacteria (<i>Angew. Chem.</i> 15/2020). <i>Angewandte Chemie</i> , 2020, 132, 5906-5906.	2.0	1
17	Extracellular Electron Uptake Mechanisms in Sulfate-Reducing Bacteria. , 2020, , 43-59.		1
18	Electrode hydrophilicity enhanced the rate of extracellular electron uptake in <i>Desulfovibrio ferrophilus</i> IS5. <i>Electrochimica Acta</i> , 2022, 421, 140504.	5.2	1