

Shafeer Kalathil

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3353821/publications.pdf>

Version: 2024-02-01

34
papers

2,643
citations

257101

24
h-index

433756

31
g-index

34
all docs

34
docs citations

34
times ranked

4029
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen vacancy induced band gap narrowing of ZnO nanostructures by an electrochemically active biofilm. <i>Nanoscale</i> , 2013, 5, 9238.	2.8	523
2	Band gap engineering of CeO ₂ nanostructure using an electrochemically active biofilm for visible light applications. <i>RSC Advances</i> , 2014, 4, 16782-16791.	1.7	266
3	Semi-biological approaches to solar-to-chemical conversion. <i>Chemical Society Reviews</i> , 2020, 49, 4926-4952.	18.7	157
4	Molecularly engineered photocatalyst sheet for scalable solar formate production from carbon dioxide and water. <i>Nature Energy</i> , 2020, 5, 703-710.	19.8	156
5	Band gap narrowing of titanium dioxide (TiO ₂) nanocrystals by electrochemically active biofilms and their visible light activity. <i>Nanoscale</i> , 2013, 5, 6323.	2.8	155
6	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.	1.6	141
7	Nanotechnology to rescue bacterial bidirectional extracellular electron transfer in bioelectrochemical systems. <i>RSC Advances</i> , 2016, 6, 30582-30597.	1.7	109
8	Granular activated carbon based microbial fuel cell for simultaneous decolorization of real dye wastewater and electricity generation. <i>New Biotechnology</i> , 2011, 29, 32-37.	2.4	102
9	Dual-Function Electrocatalytic and Macroporous Hollow-Fiber Cathode for Converting Waste Streams to Valuable Resources Using Microbial Electrochemical Systems. <i>Advanced Materials</i> , 2018, 30, e1707072.	11.1	100
10	Simultaneous Enhancement of Methylene Blue Degradation and Power Generation in a Microbial Fuel Cell by Gold Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8174-8181.	1.8	81
11	Electrochemically active biofilm-mediated synthesis of silver nanoparticles in water. <i>Green Chemistry</i> , 2011, 13, 1482.	4.6	78
12	Efficient decolorization of real dye wastewater and bioelectricity generation using a novel single chamber biocathode-microbial fuel cell. <i>Bioresource Technology</i> , 2012, 119, 22-27.	4.8	76
13	Synthesis of ultra-small platinum, palladium and gold nanoparticles by <i>Shewanella loihica</i> PV-4 electrochemically active biofilms and their enhanced catalytic activities. <i>Journal of Saudi Chemical Society</i> , 2018, 22, 919-929.	2.4	75
14	Synthesis of Cysteine Capped Silver Nanoparticles by Electrochemically Active Biofilm and their Antibacterial Activities. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2592-2596.	1.0	74
15	Disparity of Cytochrome Utilization in Anodic and Cathodic Extracellular Electron Transfer Pathways of <i>Geobacter sulfurreducens</i> Biofilms. <i>Journal of the American Chemical Society</i> , 2020, 142, 5194-5203.	6.6	59
16	Enhanced Performance of a Microbial Fuel Cell Using CNT/MnO ₂ /MnO ₂ Nanocomposite as a Bioanode Material. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7712-7716.	0.9	58
17	Production of bioelectricity, bio-hydrogen, high value chemicals and bioinspired nanomaterials by electrochemically active biofilms. <i>Biotechnology Advances</i> , 2013, 31, 915-924.	6.0	57
18	Proton Transport in the Outer-Membrane Flavocytochrome Complex Limits the Rate of Extracellular Electron Transport. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9082-9086.	7.2	51

#	ARTICLE	IF	CITATIONS
19	A three-dimensional hybrid electrode with electroactive microbes for efficient electrogenesis and chemical synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5074-5080.	3.3	48
20	Bioinspired Synthesis of Reduced Graphene Oxide-Wrapped <i>Geobacter sulfurreducens</i> as a Hybrid Electrocatalyst for Efficient Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 3686-3693.	3.2	47
21	Positively Charged Gold Nanoparticles Synthesized by Electrochemically Active Biofilm—A Biogenic Approach. Journal of Nanoscience and Nanotechnology, 2013, 13, 6079-6085.	0.9	44
22	A simple biogenic route to rapid synthesis of Au@TiO ₂ nanocomposites by electrochemically active biofilms. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	37
23	Gold Nanoparticles Produced In-Situ Mediate Bioelectricity and Hydrogen Production in a Microbial Fuel Cell by Quantized Capacitance Charging. ChemSusChem, 2013, 6, 246-250.	3.6	34
24	Microbial Fuel Cells: Electrode Materials. , 2018, , 309-318.		30
25	Enhancement in the Photocatalytic Activity of Au@TiO ₂ Nanocomposites by Pretreatment of TiO ₂ with UV Light. Bulletin of the Korean Chemical Society, 2012, 33, 1753-1758.	1.0	29
26	Synthesis of Positively Charged Gold Nanoparticles Using a Stainless-Steel Mesh. Journal of Nanoscience and Nanotechnology, 2013, 13, 6140-6144.	0.9	15
27	Synthesis of an amorphous <i>Geobacter</i> -manganese oxide biohybrid as an efficient water oxidation catalyst. Green Chemistry, 2020, 22, 5610-5618.	4.6	11
28	Effect of Ionic Strength on the Rate of Extracellular Electron Transport in <i>Shewanella oneidensis</i> through Bound Flavin Semiquinones. ChemElectroChem, 2014, 1, 1840-1843.	1.7	7
29	Biocatalytic conversion of sunlight and carbon dioxide to solar fuels and chemicals. RSC Advances, 2022, 12, 16396-16411.	1.7	7
30	Hollow Palladium Nanoparticles Facilitated Biodegradation of an Azo Dye by Electrically Active Biofilms. Materials, 2016, 9, 653.	1.3	5
31	Catalytic role of Au@TiO ₂ nanocomposite on enhanced degradation of an azo-dye by electrochemically active biofilms: a quantized charging effect. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	4
32	Proton Transport in the Outer Membrane Flavocytochrome Complex Limits the Rate of Extracellular Electron Transport. Angewandte Chemie, 2017, 129, 9210-9214.	1.6	4
33	Reactor Design for Bioelectrochemical Systems. , 2018, , 209-227.		2
34	Editorial: Microbial Electrogenesis, Microbial Electrosynthesis, and Electro-bioremediation. Frontiers in Microbiology, 2021, 12, 742479.	1.5	1