## Shafeer Kalathil

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Oxygen vacancy induced band gap narrowing of ZnO nanostructures by an electrochemically active biofilm. Nanoscale, 2013, 5, 9238.	5.6	523
2	Band gap engineering of CeO <sub>2</sub> nanostructure using an electrochemically active biofilm for visible light applications. RSC Advances, 2014, 4, 16782-16791.	3.6	266
3	Semi-biological approaches to solar-to-chemical conversion. Chemical Society Reviews, 2020, 49, 4926-4952.	38.1	157
4	Molecularly engineered photocatalyst sheet for scalable solar formate production from carbon dioxide and water. Nature Energy, 2020, 5, 703-710.	39.5	156
5	Band gap narrowing of titanium dioxide (TiO2) nanocrystals by electrochemically active biofilms and their visible light activity. Nanoscale, 2013, 5, 6323.	5.6	155
6	Cell-secreted Flavins Bound to Membrane Cytochromes Dictate Electron Transfer Reactions to Surfaces with Diverse Charge and pH. Scientific Reports, 2014, 4, 5628.	3.3	141
7	Nanotechnology to rescue bacterial bidirectional extracellular electron transfer in bioelectrochemical systems. RSC Advances, 2016, 6, 30582-30597.	3.6	109
8	Granular activated carbon based microbial fuel cell for simultaneous decolorization of real dye wastewater and electricity generation. New Biotechnology, 2011, 29, 32-37.	4.4	102
9	Dualâ€Function Electrocatalytic and Macroporous Hollowâ€Fiber Cathode for Converting Waste Streams to Valuable Resources Using Microbial Electrochemical Systems. Advanced Materials, 2018, 30, e1707072.	21.0	100
10	Simultaneous Enhancement of Methylene Blue Degradation and Power Generation in a Microbial Fuel Cell by Gold Nanoparticles. Industrial & Engineering Chemistry Research, 2013, 52, 8174-8181.	3.7	81
11	Electrochemically active biofilm-mediated synthesis of silver nanoparticles in water. Green Chemistry, 2011, 13, 1482.	9.0	78
12	Efficient decolorization of real dye wastewater and bioelectricity generation using a novel single chamber biocathode-microbial fuel cell. Bioresource Technology, 2012, 119, 22-27.	9.6	76
13	Synthesis of ultra-small platinum, palladium and gold nanoparticles by Shewanella loihica PV-4 electrochemically active biofilms and their enhanced catalytic activities. Journal of Saudi Chemical Society, 2018, 22, 919-929.	5.2	75
14	Synthesis of Cysteine Capped Silver Nanoparticles by Electrochemically Active Biofilm and their Antibacterial Activities. Bulletin of the Korean Chemical Society, 2012, 33, 2592-2596.	1.9	74
15	Disparity of Cytochrome Utilization in Anodic and Cathodic Extracellular Electron Transfer Pathways of <i>Geobacter sulfurreducens</i> Biofilms. Journal of the American Chemical Society, 2020, 142, 5194-5203.	13.7	59
16	Enhanced Performance of a Microbial Fuel Cell Using CNT/MnO <sub>2</sub> Nanocomposite as a Bioanode Material. Journal of Nanoscience and Nanotechnology, 2013, 13, 7712-7716.	0.9	58
17	Production of bioelectricity, bio-hydrogen, high value chemicals and bioinspired nanomaterials by electrochemically active biofilms. Biotechnology Advances, 2013, 31, 915-924.	11.7	57
18	Proton Transport in the Outerâ€Membrane Flavocytochrome Complex Limits the Rate of Extracellular Electron Transport. Angewandte Chemie - International Edition, 2017, 56, 9082-9086.	13.8	51

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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.	7.1	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.	6.7	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@TiO2 nanocomposites by electrochemically active biofilms. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	37
23	Gold Nanoparticles Produced Inâ€Situ Mediate Bioelectricity and Hydrogen Production in a Microbial Fuel Cell by Quantized Capacitance Charging. ChemSusChem, 2013, 6, 246-250.	6.8	34
24	Microbial Fuel Cells: Electrode Materials. , 2018, , 309-318.		30
25	Enhancement in the Photocatalytic Activity of Au@TiO <sub>2</sub> Nanocomposites by Pretreatment of TiO <sub>2</sub> with UV Light. Bulletin of the Korean Chemical Society, 2012, 33, 1753-1758.	1.9	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.	9.0	11
28	Effect of Ionic Strength on the Rate of Extracellular Electron Transport in <i>Shewanella oneidensis</i> MRâ€1 through Boundâ€Flavin Semiquinones. ChemElectroChem, 2014, 1, 1840-1843.	3.4	7
29	Biocatalytic conversion of sunlight and carbon dioxide to solar fuels and chemicals. RSC Advances, 2022, 12, 16396-16411.	3.6	7
30	Hollow Palladium Nanoparticles Facilitated Biodegradation of an Azo Dye by Electrically Active Biofilms. Materials, 2016, 9, 653.	2.9	5
31	Catalytic role of Au@TiO2 nanocomposite on enhanced degradation of an azo-dye by electrochemically active biofilms: a quantized charging effect. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	4
32	Proton Transport in the Outerâ€Membrane Flavocytochrome Complex Limits the Rate of Extracellular Electron Transport. Angewandte Chemie, 2017, 129, 9210-9214.	2.0	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.	3.5	1