

Krishna P Katuri

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,524
citations

147726

31
h-index

189801

50
g-index

54
all docs

54
docs citations

54
times ranked

3557
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational model for biofilm-based microbial fuel cells. <i>Water Research</i> , 2007, 41, 2921-2940.	5.3	381
2	A Novel Anaerobic Electrochemical Membrane Bioreactor (AnEMBR) with Conductive Hollow-fiber Membrane for Treatment of Low-Organic Strength Solutions. <i>Environmental Science & Technology</i> , 2014, 48, 12833-12841.	4.6	183
3	Microbial fuel cells meet with external resistance. <i>Bioresource Technology</i> , 2011, 102, 2758-2766.	4.8	171
4	Extracellular electron transfer-dependent anaerobic oxidation of ammonium by anammox bacteria. <i>Nature Communications</i> , 2020, 11, 2058.	5.8	168
5	<i>Geobacter sulfurreducens</i> biofilms developed under different growth conditions on glassy carbon electrodes: insights using cyclic voltammetry. <i>Chemical Communications</i> , 2010, 46, 4758.	2.2	160
6	Xylitol production by <i>Candida</i> sp.: parameter optimization using Taguchi approach. <i>Process Biochemistry</i> , 2004, 39, 951-956.	1.8	149
7	A Hybrid Microbial Fuel Cell Membrane Bioreactor with a Conductive Ultrafiltration Membrane Biocathode for Wastewater Treatment. <i>Environmental Science & Technology</i> , 2013, 47, 11821-11828.	4.6	142
8	Bioaugmentation of an anaerobic sequencing batch biofilm reactor (AnSBBR) with immobilized sulphate reducing bacteria (SRB) for the treatment of sulphate bearing chemical wastewater. <i>Process Biochemistry</i> , 2005, 40, 2849-2857.	1.8	131
9	Porous Hollow Fiber Nickel Electrodes for Effective Supply and Reduction of Carbon Dioxide to Methane through Microbial Electrosynthesis. <i>Advanced Functional Materials</i> , 2018, 28, 1804860.	7.8	122
10	Three-dimensional microchanneled electrodes in flow-through configuration for bioanode formation and current generation. <i>Energy and Environmental Science</i> , 2011, 4, 4201.	15.6	112
11	Laccase production by <i>Pleurotus ostreatus</i> 1804: Optimization of submerged culture conditions by Taguchi DOE methodology. <i>Biochemical Engineering Journal</i> , 2005, 24, 17-26.	1.8	108
12	Graphene-Coated Hollow Fiber Membrane as the Cathode in Anaerobic Electrochemical Membrane Bioreactors – Effect of Configuration and Applied Voltage on Performance and Membrane Fouling. <i>Environmental Science & Technology</i> , 2016, 50, 4439-4447.	4.6	100
13	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
14	Porous nickel hollow fiber cathodes coated with CNTs for efficient microbial electrosynthesis of acetate from CO ₂ using <i>Sporomusa ovata</i> . <i>Journal of Materials Chemistry A</i> , 2018, 6, 17201-17211.	5.2	100
15	Microbial analysis of anodic biofilm in a microbial fuel cell using slaughterhouse wastewater. <i>Bioelectrochemistry</i> , 2012, 87, 164-171.	2.4	99
16	Vastly Enhanced BiVO ₄ Photocatalytic OER Performance by NiCoO ₂ as Cocatalyst. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700540.	1.9	92
17	The role of microbial electrolysis cell in urban wastewater treatment: integration options, challenges, and prospects. <i>Current Opinion in Biotechnology</i> , 2019, 57, 101-110.	3.3	92
18	Laccase-membrane reactors for decolorization of an acid azo dye in aqueous phase: Process optimization. <i>Water Research</i> , 2009, 43, 3647-3658.	5.3	89

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19	Treatment of complex chemical wastewater in a sequencing batch reactor (SBR) with an aerobic suspended growth configuration. <i>Process Biochemistry</i> , 2005, 40, 1501-1508.	1.8	78
20	Modelling microbial fuel cells with suspended cells and added electron transfer mediator. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 151-162.	1.5	66
21	Charge Transport through <i>Geobacter sulfurreducens</i> Biofilms Grown on Graphite Rods. <i>Langmuir</i> , 2012, 28, 7904-7913.	1.6	62
22	Open circuit versus closed circuit enrichment of anodic biofilms in MFC: effect on performance and anodic communities. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1699-1713.	1.7	59
23	Evaluation of hydrolysis and fermentation rates in microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 789-798.	1.7	59
24	Charge transport in films of <i>Geobacter sulfurreducens</i> on graphite electrodes as a function of film thickness. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9039-9046.	1.3	56
25	Multiple paths of electron flow to current in microbial electrolysis cells fed with low and high concentrations of propionate. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5999-6011.	1.7	56
26	Set anode potentials affect the electron fluxes and microbial community structure in propionate-fed microbial electrolysis cells. <i>Scientific Reports</i> , 2016, 6, 38690.	1.6	54
27	Bioinspired Synthesis of Reduced Graphene Oxide-Wrapped <i>Geobacter sulfurreducens</i> as a Hybrid Electrocatalyst for Efficient Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019, 31, 3686-3693.	3.2	47
28	Enrichment of extremophilic exoelectrogens in microbial electrolysis cells using Red Sea brine pools as inocula. <i>Bioresource Technology</i> , 2017, 239, 82-86.	4.8	43
29	Catalytic response of microbial biofilms grown under fixed anode potentials depends on electrochemical cell configuration. <i>Chemical Engineering Journal</i> , 2013, 230, 532-536.	6.6	36
30	Electroactive biofilms on surface functionalized anodes: The anode respiring behavior of a novel electroactive bacterium, <i>Desulfuromonas acetexigens</i> . <i>Water Research</i> , 2020, 185, 116284.	5.3	36
31	A Microfiltration Polymer-Based Hollow-Fiber Cathode as a Promising Advanced Material for Simultaneous Recovery of Energy and Water. <i>Advanced Materials</i> , 2016, 28, 9504-9511.	11.1	35
32	Electricity generation from the treatment of wastewater with a hybrid up-flow microbial fuel cell. <i>Biotechnology and Bioengineering</i> , 2010, 107, 52-58.	1.7	30
33	Resistance assessment of microbial electrosynthesis for biochemical production to changes in delivery methods and CO ₂ flow rates. <i>Bioresource Technology</i> , 2021, 319, 124177.	4.8	30
34	Continuous Feed Microbial Fuel Cell Using An Air Cathode and A Disc Anode Stack for Wastewater Treatment. <i>Energy & Fuels</i> , 2009, 23, 5707-5716.	2.5	27
35	Does bioelectrochemical cell configuration and anode potential affect biofilm response?. <i>Biochemical Society Transactions</i> , 2012, 40, 1308-1314.	1.6	27
36	Temporal Microbial Community Dynamics in Microbial Electrolysis Cells – Influence of Acetate and Propionate Concentration. <i>Frontiers in Microbiology</i> , 2017, 8, 1371.	1.5	27

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37	Enrichment of <i>Marinobacter</i> sp. and Halophilic Homoacetogens at the Biocathode of Microbial Electrosynthesis System Inoculated With Red Sea Brine Pool. <i>Frontiers in Microbiology</i> , 2019, 10, 2563.	1.5	24
38	On the dynamic response of the anode in microbial fuel cells. <i>Enzyme and Microbial Technology</i> , 2011, 48, 351-358.	1.6	21
39	Effect of specific cathode surface area on biofouling in an anaerobic electrochemical membrane bioreactor: Novel insights using high-speed video camera. <i>Journal of Membrane Science</i> , 2019, 577, 176-183.	4.1	20
40	Evidence of Spatial Homogeneity in an Electromethanogenic Cathodic Microbial Community. <i>Frontiers in Microbiology</i> , 2019, 10, 1747.	1.5	19
41	Enrichment of salt-tolerant CO ₂ fixing communities in microbial electrosynthesis systems using porous ceramic hollow tube wrapped with carbon cloth as cathode and for CO ₂ supply. <i>Science of the Total Environment</i> , 2021, 766, 142668.	3.9	17
42	Competition of two highly specialized and efficient acetoclastic electroactive bacteria for acetate in biofilm anode of microbial electrolysis cell. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 47.	2.9	16
43	Electrochemically active polymeric hollow fibers based on poly(ether-b-amide)/carbon nanotubes. <i>Journal of Membrane Science</i> , 2018, 545, 323-328.	4.1	15
44	Effects of set cathode potentials on microbial electrosynthesis system performance and biocathode methanogen function at a metatranscriptional level. <i>Scientific Reports</i> , 2020, 10, 19824.	1.6	13
45	Arylamine functionalization of carbon anodes for improved microbial electrocatalysis. <i>RSC Advances</i> , 2013, 3, 18759.	1.7	11
46	Synthesis of an amorphous <i>Geobacter</i> -manganese oxide biohybrid as an efficient water oxidation catalyst. <i>Green Chemistry</i> , 2020, 22, 5610-5618.	4.6	11
47	Harnessing the Extracellular Electron Transfer Capability of <i>Geobacter sulfurreducens</i> for Ambient Synthesis of Stable Bifunctional Single-Atom Electrocatalyst for Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2010916.	7.8	11
48	Draft Genome Sequence of <i>Desulfuromonas acetexigens</i> Strain 2873, a Novel Anode-Respiring Bacterium. <i>Genome Announcements</i> , 2017, 5, .	0.8	10
49	Coupling anaerobic fluidized membrane bioreactors with microbial electrolysis cells towards improved wastewater reuse and energy recovery. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105974.	3.3	7
50	Draft Genome Sequence of <i>Methanobacterium</i> sp. Strain 34x, Reconstructed from an Enriched Electromethanogenic Biocathode. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	2
51	Photoanodes: Vastly Enhanced BiVO ₄ Photocatalytic OER Performance by NiCoO ₂ as Cocatalyst (Adv. Mater. Interfaces 19/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	1.9	0
52	Electrochemical Energy Storage: Harnessing the Extracellular Electron Transfer Capability of <i>Geobacter sulfurreducens</i> for Ambient Synthesis of Stable Bifunctional Single-Atom Electrocatalyst for Water Splitting (Adv. Funct. Mater. 22/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170161.	7.8	0