

Kuppam Chandrasekhar

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

3,973
citations

126708

33
h-index

138251

58
g-index

78
all docs

78
docs citations

78
times ranked

2953
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of microbial electrolysis cells (MEC) reactor designs and configurations for sustainable hydrogen gas production. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 427-443.	3.4	375
2	Biohydrogen Production: Strategies to Improve Process Efficiency through Microbial Routes. <i>International Journal of Molecular Sciences</i> , 2015, 16, 8266-8293.	1.8	303
3	Production of biofuels from microalgae - A review on cultivation, harvesting, lipid extraction, and numerous applications of microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 49-68.	8.2	288
4	Recent advances and emerging challenges in microbial electrolysis cells (MECs) for microbial production of hydrogen and value-added chemicals. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 501-525.	8.2	283
5	Self-induced bio-potential and graphite electron accepting conditions enhances petroleum sludge degradation in bio-electrochemical system with simultaneous power generation. <i>Bioresource Technology</i> , 2011, 102, 9532-9541.	4.8	141
6	Bio-electrochemical remediation of real field petroleum sludge as an electron donor with simultaneous power generation facilitates biotransformation of PAH: Effect of substrate concentration. <i>Bioresource Technology</i> , 2012, 110, 517-525.	4.8	121
7	Solid phase microbial fuel cell (SMFC) for harnessing bioelectricity from composite food waste fermentation: Influence of electrode assembly and buffering capacity. <i>Bioresource Technology</i> , 2011, 102, 7077-7085.	4.8	117
8	A comprehensive overview on light independent fermentative hydrogen production from wastewater feedstock and possible integrative options. <i>Energy Conversion and Management</i> , 2017, 141, 390-402.	4.4	107
9	Waste based hydrogen production for circular bioeconomy: Current status and future directions. <i>Bioresource Technology</i> , 2020, 302, 122920.	4.8	98
10	Hydrogen gas production with an electroformed Ni mesh cathode catalysts in a single-chamber microbial electrolysis cell (MEC). <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14095-14103.	3.8	92
11	Surpassing the current limitations of high purity H ₂ production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. <i>Bioelectrochemistry</i> , 2018, 119, 211-219.	2.4	92
12	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. <i>Bioresource Technology</i> , 2022, 344, 126292.	4.8	92
13	Lignocellulosic biomass as renewable feedstock for biodegradable and recyclable plastics production: A sustainable approach. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112130.	8.2	90
14	Bioelectrochemical systems using microalgae – A concise research update. <i>Chemosphere</i> , 2017, 177, 35-43.	4.2	88
15	Recycling of cathode material from spent lithium-ion batteries: Challenges and future perspectives. <i>Journal of Hazardous Materials</i> , 2022, 429, 128312.	6.5	83
16	Aerobic remediation of petroleum sludge through soil supplementation: Microbial community analysis. <i>Journal of Hazardous Materials</i> , 2011, 197, 80-87.	6.5	82
17	Solid phase bio-electrofermentation of food waste to harvest value-added products associated with waste remediation. <i>Waste Management</i> , 2015, 45, 57-65.	3.7	82
18	Endocrine disruptive estrogens role in electron transfer: Bio-electrochemical remediation with microbial mediated electrogenesis. <i>Bioresource Technology</i> , 2012, 104, 547-556.	4.8	81

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19	Electro-Fermentation in Aid of Bioenergy and Biopolymers. <i>Energies</i> , 2018, 11, 343.	1.6	80
20	State-of-the-art technologies for continuous high-rate biohydrogen production. <i>Bioresource Technology</i> , 2021, 320, 124304.	4.8	73
21	Use of Industrial Wastes as Sustainable Nutrient Sources for Bacterial Cellulose (BC) Production: Mechanism, Advances, and Future Perspectives. <i>Polymers</i> , 2021, 13, 3365.	2.0	67
22	Sequential microbial activities mediated bioelectricity production from distillery wastewater using bio-electrochemical system with simultaneous waste remediation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1130-1141.	3.8	63
23	Induced catabolic bio-electrohydrolysis of complex food waste by regulating external resistance for enhancing acidogenic biohydrogen production. <i>Bioresource Technology</i> , 2014, 165, 372-382.	4.8	61
24	Bio-electrohydrolysis as a pretreatment strategy to catabolize complex food waste in closed circuitry: Function of electron flux to enhance acidogenic biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11411-11422.	3.8	61
25	Influence of carbohydrates and proteins concentration on fermentative hydrogen production using canteen based waste under acidophilic microenvironment. <i>Journal of Biotechnology</i> , 2011, 155, 387-395.	1.9	55
26	Synthesis of γ -valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. <i>Fuel</i> , 2021, 303, 121333.	3.4	52
27	Photosynthetic microorganisms (Algae) mediated bioelectricity generation in microbial fuel cell: Concise review. <i>Environmental Technology and Innovation</i> , 2020, 19, 100959.	3.0	51
28	A comprehensive review on two-stage integrative schemes for the valorization of dark fermentative effluents. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 868-882.	5.1	48
29	Electro-fermentation for biofuels and biochemicals production: Current status and future directions. <i>Bioresource Technology</i> , 2021, 323, 124598.	4.8	45
30	Performance optimization of microbial electrolysis cell (MEC) for palm oil mill effluent (POME) wastewater treatment and sustainable Bio-H ₂ production using response surface methodology (RSM). <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15464-15479.	3.8	45
31	Advanced technologies on the sustainable approaches for conversion of organic waste to valuable bioproducts: Emerging circular bioeconomy perspective. <i>Fuel</i> , 2022, 324, 124313.	3.4	45
32	Effectiveness of piggery waste treatment using microbial fuel cells coupled with elutriated-phased acid fermentation. <i>Bioresource Technology</i> , 2017, 244, 650-657.	4.8	40
33	Upgrading the value of anaerobic fermentation via renewable chemicals production: A sustainable integration for circular bioeconomy. <i>Science of the Total Environment</i> , 2022, 806, 150312.	3.9	39
34	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. <i>Journal of Biotechnology</i> , 2022, 345, 1-16.	1.9	34
35	Microbial Electro-Remediation (MER) of hazardous waste in aid of sustainable energy generation and resource recovery. <i>Environmental Technology and Innovation</i> , 2020, 19, 100997.	3.0	33
36	Critical challenges and technological breakthroughs in food waste hydrolysis and detoxification for fuels and chemicals production. <i>Bioresource Technology</i> , 2022, 360, 127512.	4.8	31

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37	Simultaneous production of flavonoids and lipids from <i>Chlorella vulgaris</i> and <i>Chlorella pyrenoidosa</i> . <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 683-691.	2.9	24
38	Recent biotechnological trends in lactic acid bacterial fermentation for food processing industries. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 14-40.	1.5	24
39	BIOREMEDIATION OF PETROLEUM SLUDGE UNDER ANAEROBIC MICROENVIRONMENT: INFLUENCE OF BIOSTIMULATION AND BIOAUGMENTATION. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 1609-1616.	0.2	22
40	Biohydrogen Production from Wastewater. , 2013, , 223-257.		21
41	Relative evaluation of acid, alkali, and hydrothermal pretreatment influence on biochemical methane potential of date biomass. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106031.	3.3	20
42	Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems. <i>Bioresource Technology</i> , 2022, 346, 126628.	4.8	20
43	Bio-electrocatalytic remediation of hydrocarbons contaminated soil with integrated natural attenuation and chemical oxidant. <i>Chemosphere</i> , 2021, 280, 130649.	4.2	19
44	Simultaneous production of astaxanthin and lipids from <i>Chlorella sorokiniana</i> in the presence of reactive oxygen species: a biorefinery approach. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 881-889.	2.9	18
45	SMFC as a tool for the removal of hydrocarbons and metals in the marine environment: a concise research update. <i>Environmental Science and Pollution Research</i> , 2021, 28, 30436-30451.	2.7	18
46	Challenges in Microbial Fuel Cell and Future Scope. , 2018, , 483-499.		17
47	Evaluation of the biochemical methane potential of different sorts of Algerian date biomass. <i>Environmental Technology and Innovation</i> , 2020, 20, 101180.	3.0	17
48	Basic Principles of Microbial Fuel Cell: Technical Challenges and Economic Feasibility. , 2017, , 165-188.		16
49	Effective and Nonprecious Cathode Catalysts for Oxygen Reduction Reaction in Microbial Fuel Cells. , 2019, , 485-501.		16
50	Potato Chip-Like OD Interconnected ZnCo ₂ O ₄ Nanoparticles for High-Performance Supercapacitors. <i>Crystals</i> , 2021, 11, 469.	1.0	16
51	Bioelectrochemical system-mediated waste valorization. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 432-443.	1.5	16
52	Biohydrogen Production: Integrated Approaches to Improve the Process Efficiency. , 2017, , 189-210.		14
53	Extraction and characterization of microalgae-derived phenolics for pharmaceutical applications: A systematic review. <i>Journal of Basic Microbiology</i> , 2022, 62, 1044-1063.	1.8	14
54	Recent biotechnological developments in reshaping the microalgal genome: A signal for green recovery in biorefinery practices. <i>Chemosphere</i> , 2022, 293, 133513.	4.2	14

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55	Comparison of alkali and ionic liquid pretreatment methods on the biochemical methane potential of date palm waste biomass. <i>Bioresource Technology</i> , 2022, 360, 127505.	4.8	12
56	Basics of Methanogenesis in Anaerobic Digester. , 2017, , 291-314.		11
57	Use of Biochar-Based Cathodes and Increase in the Electron Flow by <i>Pseudomonas aeruginosa</i> to Improve Waste Treatment in Microbial Fuel Cells. <i>Processes</i> , 2021, 9, 1941.	1.3	11
58	Bioelectrochemical systems in aid of sustainable biorefineries for the production of value-added products and resource recovery from wastewater: A critical review and future perspectives. <i>Bioresource Technology</i> , 2022, 359, 127435.	4.8	10
59	Biohydrogen production in microbial electrolysis cells from renewable resources. , 2018, , 331-356.		9
60	Acidogenic Biohydrogen Production From Wastewater. , 2019, , 279-320.		8
61	Algaeâ€”The Potential Future Fuel: Challenges and Prospects. , 2017, , 239-251.		7
62	Phytotherapeutic Drugs for COVID-19 Treatment: A Scoping Review. <i>Current Pharmaceutical Design</i> , 2021, 27, 3389-3398.	0.9	5
63	Facets of diatom biology and their potential applications. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	5
64	Harvesting Energy Using Compost as a Source of Carbon and Electrogenic Bacteria. , 2020, , 217-234.		5
65	Contaminant Removal and Energy Recovery in Microbial Fuel Cells. , 2019, , 76-94.		5
66	Selection of the best barrier solutions for liquid displacement gas collecting metre to prevent gas solubility in microbial electrolysis cells. <i>International Journal of Renewable Energy Technology</i> , 2017, 8, 93.	0.2	4
67	Fundamentals of Bacterial Biofilm: Present State of Art. , 2018, , 43-60.		3
68	Algal Bioeconomy: A Platform for Clean Energy and Fuel. <i>Clean Energy Production Technologies</i> , 2020, , 335-370.	0.3	3
69	Bacterial-Mediated Biofouling: Fundamentals and Control Techniques. , 2018, , 263-284.		2
70	Production of a Variety of Industrially Significant Products by Biological Sources Through Fermentation. <i>Microorganisms for Sustainability</i> , 2019, , 201-221.	0.4	2
71	Applications of Nanomaterials and Future Prospects for Nanobionics. <i>Nanotechnology in the Life Sciences</i> , 2019, , 177-197.	0.4	2
72	Potential Applications of Biopolymers in Fisheries Industry. <i>Springer Series on Polymer and Composite Materials</i> , 2022, , 199-221.	0.5	2

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73	Greener synthesis of enzymes from marine microbes using nanomaterials. , 2021, , 109-136.		0
74	Wastewater treatment systems and power generation. , 2021, , 321-348.		0
75	Strategies in the direction of scaling-up aspects of microbial electrolysis cells. , 2022, , 359-375.		0