

# Smita S. Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

4,099  
citations

136740

32  
h-index

223531

46  
g-index

60  
all docs

60  
docs citations

60  
times ranked

4342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead Toxicity: Health Hazards, Influence on Food Chain, and Sustainable Remediation Approaches. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2179.	1.2	454
2	Biological approaches to tackle heavy metal pollution: A survey of literature. <i>Journal of Environmental Management</i> , 2018, 217, 56-70.	3.8	421
3	Valorization of agricultural waste for biogas based circular economy in India: A research outlook. <i>Bioresource Technology</i> , 2020, 304, 123036.	4.8	219
4	Biogenesis of copper oxide nanoparticles (CuONPs) using <i>Sida acuta</i> and their incorporation over cotton fabrics to prevent the pathogenicity of Gram negative and Gram positive bacteria. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 188, 126-134.	1.7	212
5	Methane production, oxidation and mitigation: A mechanistic understanding and comprehensive evaluation of influencing factors. <i>Science of the Total Environment</i> , 2016, 572, 874-896.	3.9	210
6	Microbial fuel cells (MFCs) for bioelectrochemical treatment of different wastewater streams. <i>Fuel</i> , 2019, 254, 115526.	3.4	186
7	Algae as green energy reserve: Technological outlook on biofuel production. <i>Chemosphere</i> , 2020, 242, 125079.	4.2	182
8	An enhancement of antimicrobial efficacy of biogenic and ceftriaxone-conjugated silver nanoparticles: green approach. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10362-10370.	2.7	170
9	Green technology for sustainable biohydrogen production (waste to energy): A review. <i>Science of the Total Environment</i> , 2020, 728, 138481.	3.9	144
10	An overview on bioethanol production from lignocellulosic feedstocks. <i>Chemosphere</i> , 2020, 242, 125080.	4.2	133
11	A review on biochar production techniques and biochar based catalyst for biofuel production from algae. <i>Fuel</i> , 2021, 287, 119411.	3.4	132
12	Photocatalytic properties and antimicrobial efficacy of Fe doped CuO nanoparticles against the pathogenic bacteria and fungi. <i>Microbial Pathogenesis</i> , 2018, 122, 84-89.	1.3	112
13	Towards sustainable agriculture with carbon sequestration, and greenhouse gas mitigation using algal biochar. <i>Chemosphere</i> , 2021, 275, 129856.	4.2	98
14	Microbial fuel cells as a sustainable platform technology for bioenergy, biosensing, environmental monitoring, and other low power device applications. <i>Fuel</i> , 2019, 255, 115682.	3.4	88
15	Remediation strategies for mitigation of phthalate pollution: Challenges and future perspectives. <i>Journal of Hazardous Materials</i> , 2021, 409, 124496.	6.5	85
16	Microalgal consortia for municipal wastewater treatment – Lipid augmentation and fatty acid profiling for biodiesel production. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111638.	1.7	84
17	Enhanced biogas production from municipal solid waste via co-digestion with sewage sludge and metabolic pathway analysis. <i>Bioresource Technology</i> , 2020, 296, 122275.	4.8	79
18	Biochar for environmental sustainability in the energy-water-agroecosystem nexus. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111379.	8.2	71

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19	Syntrophic association and performance of Clostridium, Desulfovibrio, Aeromonas and Tetrathobacter as anodic biocatalysts for bioelectricity generation in dual chamber microbial fuel cell. Environmental Science and Pollution Research, 2017, 24, 16019-16030.	2.7	61
20	A comprehensive review on enzymatic degradation of the organophosphate pesticide malathion in the environment. Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews, 2019, 37, 288-329.	2.9	58
21	Modification of anode electrode in microbial fuel cell for electrochemical recovery of energy and copper metal. Electrochimica Acta, 2018, 275, 8-17.	2.6	57
22	Enhancement of lipid production from algal biomass through various growth parameters. Journal of Molecular Liquids, 2018, 269, 712-720.	2.3	56
23	An overview of carcinogenic pollutants in groundwater of India. Biocatalysis and Agricultural Biotechnology, 2019, 21, 101288.	1.5	54
24	Cell density, Lipidomic profile, and fatty acid characterization as selection criteria in bioprospecting of microalgae and cyanobacterium for biodiesel production. Bioresource Technology, 2020, 304, 123061.	4.8	53
25	Alkalinity and salinity favor bioelectricity generation potential of Clostridium, Tetrathobacter and Desulfovibrio consortium in Microbial Fuel Cells (MFC) treating sulfate-laden wastewater. Bioresource Technology, 2020, 306, 123110.	4.8	47
26	Mitigation of greenhouse gas intensity by supplementing with Azolla and moderating the dose of nitrogen fertilizer. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101266.	1.5	46
27	Industrial wastes: Fly ash, steel slag and phosphogypsum- potential candidates to mitigate greenhouse gas emissions from paddy fields. Chemosphere, 2020, 241, 124824.	4.2	44
28	Engineered Nanoenzymes with Multifunctional Properties for Next-Generation Biological and Environmental Applications. Advanced Functional Materials, 2022, 32, 2108650.	7.8	43
29	Ferrous sulfate as an in-situ anodic coagulant for enhanced bioelectricity generation and COD removal from landfill leachate. Energy, 2019, 176, 570-581.	4.5	42
30	Upgrading of microalgal consortia with CO <sub>2</sub> from fermentation of wheat straw for the phycoremediation of domestic wastewater. Bioresource Technology, 2020, 305, 123063.	4.8	40
31	Recent advancement in scaling-up applications of microbial fuel cells: From reality to practicability. Sustainable Energy Technologies and Assessments, 2021, 45, 101226.	1.7	40
32	Bio-synthesized Cu-ZnO hetero-nanostructure for catalytic degradation of organophosphate chlorpyrifos under solar illumination. Chemosphere, 2021, 277, 130315.	4.2	34
33	Effect of cathode environment on bioelectricity generation using a novel consortium in anode side of a microbial fuel cell. Biochemical Engineering Journal, 2017, 121, 17-24.	1.8	33
34	Anaerobic digestion of sugarcane bagasse for biogas production and digestate valorization. Chemosphere, 2022, 295, 133893.	4.2	32
35	Coagulation of landfill leachate by FeCl <sub>3</sub> : process optimization using Box-Behnken design (RSM). Applied Water Science, 2017, 7, 1943-1953.	2.8	30
36	Phytoremediation and Rhizoremediation: Uptake, Mobilization and Sequestration of Heavy Metals by Plants., 2017, , 367-394.		25

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37	An assessment of trace element contamination in groundwater aquifers of Saharanpur, Western Uttar Pradesh, India. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101213.	1.5	24
38	Performance of buffered ferric chloride as terminal electron acceptor in dual chamber microbial fuel cell. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1238-1243.	3.3	22
39	Screening and enrichment of high lipid producing microalgal consortia. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 192, 8-12.	1.7	22
40	The role of conductive nanoparticles in anaerobic digestion: Mechanism, current status and future perspectives. <i>Chemosphere</i> , 2021, 280, 130601.	4.2	22
41	Role of Fungi in Climate Change Abatement Through Carbon Sequestration. <i>Fungal Biology</i> , 2019, , 283-295.	0.3	20
42	Evaluation of biogas yield and kinetics from the anaerobic co-digestion of cow dung and horse dung: a strategy for sustainable management of livestock manure. <i>Energy, Ecology and Environment</i> , 2021, 6, 425-434.	1.9	18
43	Clinically important microbial diversity and its antibiotic resistance pattern towards various drugs. <i>Journal of Infection and Public Health</i> , 2019, 12, 783-788.	1.9	16
44	Plummeting global warming potential by chemicals interventions in irrigated rice: A lab to field assessment. <i>Agriculture, Ecosystems and Environment</i> , 2021, 319, 107545.	2.5	14
45	A review on the capability of zinc oxide and iron oxides nanomaterials, as a water decontaminating agent: adsorption and photocatalysis. <i>Applied Water Science</i> , 2022, 12, 1.	2.8	13
46	Bioelectricity generation using sulphate-reducing bacteria as anodic and microalgae as cathodic biocatalysts. <i>Biofuels</i> , 2019, 10, 81-86.	1.4	12
47	Groundwater quality monitoring of a popular Niger Delta university town in Nigeria. <i>Groundwater for Sustainable Development</i> , 2021, 12, 100503.	2.3	10
48	Advanced microbial fuel cell for biosensor applications to detect quality parameters of pollutants. , 2021, , 125-139.		6
49	Cyanobacteria: A perspective paradigm for agriculture and environment. , 2020, , 215-224.		5
50	Bioelectrochemical systems for removal and recovery of heavy metals. , 2021, , 185-203.		3
51	Bioelectroremediation technologies in remediation of environmental pollutants: challenges and future prospects. , 2021, , 147-165.		1
52	Understanding Methanogens, Methanotrophs, and Methane Emission in Rice Ecosystem. , 2021, , 205-224.		1
53	Metal-Organic Frameworks for Capturing Carbon Dioxide from Flue Gas. <i>ACS Symposium Series</i> , 0, , 355-391.	0.5	1
54	Recent Advances and Challenges in Selective Environmental Applications of Metal-Organic Frameworks. <i>ACS Symposium Series</i> , 0, , 223-245.	0.5	1

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55	Metal-Organic Frameworks for Water Treatment. ACS Symposium Series, 0, , 125-154.	0.5	1
56	Metal-Organic Frameworks as Catalysts for the Conversion of Lignin to Value-Added Products. ACS Symposium Series, 0, , 119-131.	0.5	0
57	Metal-Organic Framework Based Single-Atom Catalysts for Electrochemical CO <sub>2</sub> Sequestration. ACS Symposium Series, 0, , 309-314.	0.5	0
58	Zinc-Based Metal-Organic Framework for Heavy Metal Sensing. ACS Symposium Series, 0, , 177-201.	0.5	0