Smita S. Kumar

List of Publications by Year
in descending order

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	Engineered Nanoenzymes with Multifunctional Properties for Nextâ€Generation Biological and Environmental Applications. Advanced Functional Materials, 2022, 32, 2108650.	7.8	43
2	A review on the capability of zinc oxide and iron oxides nanomaterials, as a water decontaminating agent: adsorption and photocatalysis. Applied Water Science, 2022, 12, 1.	2.8	13
3	Anaerobic digestion of sugarcane bagasse for biogas production and digestate valorization. Chemosphere, 2022, 295, 133893.	4.2	32
4	A review on biochar production techniques and biochar based catalyst for biofuel production from algae. Fuel, 2021, 287, 119411.	3.4	132
5	Groundwater quality monitoring of a popular Niger Delta university town in Nigeria. Groundwater for Sustainable Development, 2021, 12, 100503.	2.3	10
6	Remediation strategies for mitigation of phthalate pollution: Challenges and future perspectives. Journal of Hazardous Materials, 2021, 409, 124496.	6.5	85
7	Bioelectroremediation technologies in remediation of environmental pollutants: challenges and future prospects. , 2021, , 147-165.		1
8	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. Energy, Ecology and Environment, 2021, 6, 425-434.	1.9	18
9	Advanced microbial fuel cell for biosensor applications to detect quality parameters of pollutants. , 2021, , 125-139.		6
10	Understanding Methanogens, Methanotrophs, and Methane Emission in Rice Ecosystem. , 2021, , 205-224.		1
11	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
12	Towards sustainable agriculture with carbon sequestration, and greenhouse gas mitigation using algal biochar. Chemosphere, 2021, 275, 129856.	4.2	98
13	Bio-synthesized Cuâ€“ZnO hetro-nanostructure for catalytic degradation of organophosphate chlorpyrifos under solar illumination. Chemosphere, 2021, 277, 130315.	4.2	34
14	Plummeting global warming potential by chemicals interventions in irrigated rice: A lab to field assessment. Agriculture, Ecosystems and Environment, 2021, 319, 107545.	2.5	14
15	Biochar for environmental sustainability in the energy-water-agroecosystem nexus. Renewable and Sustainable Energy Reviews, 2021, 149, 111379.	8.2	71
16	The role of conductive nanoparticles in anaerobic digestion: Mechanism, current status and future perspectives. Chemosphere, 2021, 280, 130601.	4.2	22
17	Bioelectrochemical systems for removal and recovery of heavy metals. , 2021, , 185-203.		3
18	Algae as green energy reserve: Technological outlook on biofuel production. Chemosphere, 2020, 242, 125079.	4.2	182

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19	An overview on bioethanol production from lignocellulosic feedstocks. Chemosphere, 2020, 242, 125080.	4.2	133
20	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
21	Microalgal consortia for municipal wastewater treatment â€“ Lipid augmentation and fatty acid profiling for biodiesel production. Journal of Photochemistry and Photobiology B: Biology, 2020, 202, 111638.	1.7	84
22	Enhanced biogas production from municipal solid waste via co-digestion with sewage sludge and metabolic pathway analysis. Bioresource Technology, 2020, 296, 122275.	4.8	79
23	Cyanobacteria: A perspective paradigm for agriculture and environment. , 2020, , 215-224.		5
24	Alkalinity and salinity favor bioelectricity generation potential of Clostridium, Tetrathiobacter and Desulfovibrio consortium in Microbial Fuel Cells (MFC) treating sulfate-laden wastewater. Bioresource Technology, 2020, 306, 123110.	4.8	47
25	Upgrading of microalgal consortia with CO2 from fermentation of wheat straw for the phycoremediation of domestic wastewater. Bioresource Technology, 2020, 305, 123063.	4.8	40
26	Lead Toxicity: Health Hazards, Influence on Food Chain, and Sustainable Remediation Approaches. International Journal of Environmental Research and Public Health, 2020, 17, 2179.	1.2	454
27	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
28	Valorization of agricultural waste for biogas based circular economy in India: A research outlook. Bioresource Technology, 2020, 304, 123036.	4.8	219
29	Green technology for sustainable biohydrogen production (waste to energy): A review. Science of the Total Environment, 2020, 728, 138481.	3.9	144
30	Microbial fuel cells as a sustainable platform technology for bioenergy, biosensing, environmental monitoring, and other low power device applications. Fuel, 2019, 255, 115682.	3.4	88
31	An assessment of trace element contamination in groundwater aquifers of Saharanpur, Western Uttar Pradesh, India. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101213.	1.5	24
32	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
33	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
34	An overview of carcinogenic pollutants in groundwater of India. Biocatalysis and Agricultural Biotechnology, 2019, 21, 101288.	1.5	54
35	Clinically important microbial diversity and its antibiotic resistance pattern towards various drugs. Journal of Infection and Public Health, 2019, 12, 783-788.	1.9	16
36	Microbial fuel cells (MFCs) for bioelectrochemical treatment of different wastewater streams. Fuel, 2019, 254, 115526.	3.4	186

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37	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
38	Screening and enrichment of high lipid producing microalgal consortia. Journal of Photochemistry and Photobiology B: Biology, 2019, 192, 8-12.	1.7	22
39	Bioelectricity generation using sulphate-reducing bacteria as anodic and microalgae as cathodic biocatalysts. Biofuels, 2019, 10, 81-86.	1.4	12
40	Role of Fungi in Climate Change Abatement Through Carbon Sequestration. Fungal Biology, 2019, , 283-295.	0.3	20
41	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
42	Biological approaches to tackle heavy metal pollution: A survey of literature. Journal of Environmental Management, 2018, 217, 56-70.	3.8	421
43	An enhancement of antimicrobial efficacy of biogenic and ceftriaxone-conjugated silver nanoparticles: green approach. Environmental Science and Pollution Research, 2018, 25, 10362-10370.	2.7	170
44	Biogenesis of copper oxide nanoparticles (CuONPs) using Sida acuta and their incorporation over cotton fabrics to prevent the pathogenicity of Gram negative and Gram positive bacteria. Journal of Photochemistry and Photobiology B: Biology, 2018, 188, 126-134.	1.7	212
45	Enhancement of lipid production from algal biomass through various growth parameters. Journal of Molecular Liquids, 2018, 269, 712-720.	2.3	56
46	Photocatalytic properties and antimicrobial efficacy of Fe doped CuO nanoparticles against the pathogenic bacteria and fungi. Microbial Pathogenesis, 2018, 122, 84-89.	1.3	112
47	Coagulation of landfill leachate by FeCl3: process optimization using Boxâ€“Behnken design (RSM). Applied Water Science, 2017, 7, 1943-1953.	2.8	30
48	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
49	Performance of buffered ferric chloride as terminal electron acceptor in dual chamber microbial fuel cell. Journal of Environmental Chemical Engineering, 2017, 5, 1238-1243.	3.3	22
50	Syntrophic association and performance of Clostridium, Desulfovibrio, Aeromonas and Tetrathiobacter as anodic biocatalysts for bioelectricity generation in dual chamber microbial fuel cell. Environmental Science and Pollution Research, 2017, 24, 16019-16030.	2.7	61
51	Phytoremediation and Rhizoremediation: Uptake, Mobilization and Sequestration of Heavy Metals by Plants. , 2017, , 367-394.		25
52	Methane production, oxidation and mitigation: A mechanistic understanding and comprehensive evaluation of influencing factors. Science of the Total Environment, 2016, 572, 874-896.	3.9	210
53	Metalâ^'Organic Frameworks for Capturing Carbon Dioxide from Flue Gas. ACS Symposium Series, 0, , 355-391.	0.5	1
54	Recent Advances and Challenges in Selective Environmental Applications of Metalâ^'Organic Frameworks. ACS Symposium Series, 0, , 223-245.	0.5	1

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55	Metalâ^'Organic Frameworks as Catalysts for the Conversion of Lignin to Value-Added Products. ACS Symposium Series, 0, , 119-131.	0.5	0
56	Metalâ^'Organic Framework Based Single-Atom Catalysts for Electrochemical CO₂ Sequestration. ACS Symposium Series, 0, , 309-314.	0.5	0
57	Zinc-Based Metalâ^'Organic Framework for Heavy Metal Sensing. ACS Symposium Series, 0, , 177-201.	0.5	0
58	Metalâ^'Organic Frameworks for Water Treatment. ACS Symposium Series, 0, , 125-154.	0.5	1