

# Krishna Kumar Jaiswal

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,085  
citations

394421

19  
h-index

434195

31  
g-index

41  
all docs

41  
docs citations

41  
times ranked

769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photosynthetic microalgae-based carbon sequestration and generation of biomass in biorefinery approach for renewable biofuels for a cleaner environment. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 7403-7421.	4.6	20
2	Bio-fabrication of selenium nanoparticles/micro-rods using cabbage leaves extract for photocatalytic dye degradation under natural sunlight irradiation. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 6559-6576.	3.3	7
3	Production of high value-added biomolecules by microalgae cultivation in wastewater from anaerobic digestates of food waste: a review. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 9625-9642.	4.6	9
4	Microwave-assisted pretreatment of harmful algal blooms for microbial oil-centered biorefinery approach. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3097-3105.	4.6	11
5	Lipid Extraction From Fish Processing Residues for Sustainable Biofuel Production. , 2022, , 293-319.		3
6	Hydrothermal liquefaction of municipal wastewater sludge and nutrient recovery from the aqueous phase. <i>Biofuels</i> , 2022, 13, 657-662.	2.4	10
7	Impact of aquatic microplastics and nanoplastics pollution on ecological systems and sustainable remediation strategies of biodegradation and photodegradation. <i>Science of the Total Environment</i> , 2022, 806, 151358.	8.0	41
8	Microwave-assisted polycrystalline Ag/AgO/AgCl nanocomposites synthesis using banana corm (rhizome of <i>Musa sp.</i> ) extract: Characterization and antimicrobial studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 107, 145-154.	5.8	10
9	Recent advances and viability in sustainable thermochemical conversion of sludge to bio-fuel production. <i>Fuel</i> , 2022, 316, 123351.	6.4	29
10	Bio-flocculation of oleaginous microalgae integrated with municipal wastewater treatment and its hydrothermal liquefaction for biofuel production. <i>Environmental Technology and Innovation</i> , 2022, 26, 102340.	6.1	19
11	Renewable and sustainable clean energy development and impact on social, economic, and environmental health. <i>Energy Nexus</i> , 2022, 7, 100118.	7.7	56
12	Recent trends in the development and diversification of sericulture natural products for innovative and sustainable applications. <i>Bioresource Technology Reports</i> , 2021, 13, 100614.	2.7	13
13	Ethno-pharmacological insulin signaling induction of aqueous extract of <i>Syzygium paniculatum</i> fruits in a high-fat diet induced hepatic insulin resistance. <i>Journal of Ethnopharmacology</i> , 2021, 268, 113576.	4.1	6
14	Green Synthesis of Photocatalytic TiO <sub>2</sub> Nanoparticles for Potential Application in Photochemical Degradation of Ornidazole. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 614-623.	3.7	40
15	Bio-waste chicken eggshell-derived calcium oxide for photocatalytic application in methylene blue dye degradation under natural sunlight irradiation. <i>Inorganic and Nano-Metal Chemistry</i> , 2021, 51, 995-1004.	1.6	37
16	Microalgae with a truncated light-harvesting antenna to maximize photosynthetic efficiency and biomass productivity: Recent advances and current challenges. <i>Process Biochemistry</i> , 2021, 104, 83-91.	3.7	56
17	Hydropyrolysis of freshwater macroalgal bloom for bio-oil and biochar production: Kinetics and isotherm for removal of multiple heavy metals. <i>Environmental Technology and Innovation</i> , 2021, 22, 101440.	6.1	24
18	Graphitic bio-char and bio-oil synthesis via hydrothermal carbonization-co-liquefaction of microalgae biomass (oiled/de-oiled) and multiple heavy metals remediations. <i>Journal of Hazardous Materials</i> , 2021, 409, 124987.	12.4	57

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19	Algae-based sustainable approach for simultaneous removal of micropollutants, and bacteria from urban wastewater and its real-time reuse for aquaculture. <i>Science of the Total Environment</i> , 2021, 774, 145556.	8.0	40
20	Microwave-Assisted Biosynthesis of CuO Nanoparticles Using <i>Atalantia monophylla</i> (L.) Leaf Extract and its Biomedical Applications. <i>Chemical Engineering and Technology</i> , 2021, 44, 1496-1503.	1.5	9
21	Effect of catalyst and temperature on the quality and productivity of HTL bio-oil from microalgae: A review. <i>Renewable Energy</i> , 2021, 174, 810-822.	8.9	55
22	Micro-pollutant Pb(II) mitigation and lipid induction in oleaginous microalgae <i>Chlorella sorokiniana</i> UUIND6. <i>Environmental Technology and Innovation</i> , 2021, 23, 101613.	6.1	25
23	Impact of pyrene (polycyclic aromatic hydrocarbons) pollutant on metabolites and lipid induction in microalgae <i>Chlorella sorokiniana</i> (UUIND6) to produce renewable biodiesel. <i>Chemosphere</i> , 2021, 285, 131482.	8.2	16
24	Bio-remediation capacity for Cd(II) and Pb(II) from the aqueous medium by two novel strains of microalgae and their effect on lipidomics and metabolomics. <i>Journal of Water Process Engineering</i> , 2021, 44, 102404.	5.6	18
25	Ameliorative effects of <i>Mentha aquatica</i> on diabetic and nephroprotective potential activities in STZ-induced renal injury. <i>Comparative Clinical Pathology</i> , 2020, 29, 189-199.	0.7	11
26	Anti-inflammatory effect of epidermal growth factor conjugated silk fibroin immobilized polyurethane ameliorates diabetic burn wound healing. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 1009-1032.	7.5	41
27	Small-scale phyco-mitigation of raw urban wastewater integrated with biodiesel production and its utilization for aquaculture. <i>Bioresource Technology</i> , 2020, 297, 122489.	9.6	51
28	Impact of glyphosate herbicide stress on metabolic growth and lipid inducement in <i>Chlorella sorokiniana</i> UUIND6 for biodiesel production. <i>Algal Research</i> , 2020, 51, 102071.	4.6	25
29	Pathophysiology of high fat diet induced obesity: impact of probiotic banana juice on obesity associated complications and hepatosteatosis. <i>Scientific Reports</i> , 2020, 10, 16894.	3.3	17
30	Microalgae fuel cell for wastewater treatment: Recent advances and challenges. <i>Journal of Water Process Engineering</i> , 2020, 38, 101549.	5.6	43
31	Green synthesis of titanium dioxide (TiO <sub>2</sub> ) nanoparticles by using <i>Mentha arvensis</i> leaves extract and its antimicrobial properties. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 1032-1038.	1.6	129
32	Enhancing algal biomass production and nutrients removal from municipal wastewater via a novel mini photocavity bioreactor. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 4714-4720.	1.0	21
33	Toxicity of Cadmium (Cd) on microalgal growth, (IC50 value) and its exertions in biofuel production. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 5828-5833.	1.0	16
34	Green synthesis of zinc oxide catalyst under microwave irradiation using banana ( <i>Musa spp.</i> ) corm (rhizome) extract for biodiesel synthesis from fish waste lipid. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101390.	3.1	33
35	Microwave-assisted rapid synthesis of Fe <sub>3</sub> O <sub>4</sub> /poly(styrene-divinylbenzene-acrylic acid) polymeric magnetic composites and investigation of their structural and magnetic properties. <i>European Polymer Journal</i> , 2018, 98, 177-190.	5.4	39
36	The Role of Microwave Irradiation Temperature on Nitrogen Doping in Metal-Free Graphene Catalysts for an Efficient Oxygen Reduction Reaction in an Alkaline Condition. <i>ChemistrySelect</i> , 2018, 3, 8962-8972.	1.5	15

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37	<i>Euphorbia herita</i> leaf extract as a reducing agent in a facile green synthesis of iron oxide nanoparticles and antimicrobial activity evaluation. <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-8.	1.6	22
38	Investigation on the potential of eco-friendly bio-char for amendment in serpentine soils and immobilization of heavy metals contaminants: a review. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	3
39	Pomegranate peels mediated synthesis of calcium oxide (CaO) nanoparticles, characterization, and antimicrobial applications. <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-8.	1.6	8