

# 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	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
2	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
3	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
4	Renewable and sustainable clean energy development and impact on social, economic, and environmental health. <i>Energy Nexus</i> , 2022, 7, 100118.	7.7	56
5	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
6	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
7	Microalgae fuel cell for wastewater treatment: Recent advances and challenges. <i>Journal of Water Process Engineering</i> , 2020, 38, 101549.	5.6	43
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Recent advances and viability in sustainable thermochemical conversion of sludge to bio-fuel production. <i>Fuel</i> , 2022, 316, 123351.	6.4	29
16	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
17	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
18	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

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19	<i>Euphorbia herita</i> leaf extract as a reducing agent in a facile green synthesis of iron oxide nanoparticles and antimicrobial activity evaluation. Inorganic and Nano-Metal Chemistry, 0, , 1-8.	1.6	22
20	Enhancing algal biomass production and nutrients removal from municipal wastewater via a novel mini photocavity bioreactor. Biointerface Research in Applied Chemistry, 2020, 10, 4714-4720.	1.0	21
21	Photosynthetic microalgaeâ€based carbon sequestration and generation of biomass in biorefinery approach for renewable biofuels for a cleaner environment. Biomass Conversion and Biorefinery, 2023, 13, 7403-7421.	4.6	20
22	Bio-flocculation of oleaginous microalgae integrated with municipal wastewater treatment and its hydrothermal liquefaction for biofuel production. Environmental Technology and Innovation, 2022, 26, 102340.	6.1	19
23	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. Journal of Water Process Engineering, 2021, 44, 102404.	5.6	18
24	Pathophysiology of high fat diet induced obesity: impact of probiotic banana juice on obesity associated complications and hepatosteatosis. Scientific Reports, 2020, 10, 16894.	3.3	17
25	Impact of pyrene (polycyclic aromatic hydrocarbons) pollutant on metabolites and lipid induction in microalgae Chlorella sorokiniana (UUIND6) to produce renewable biodiesel. Chemosphere, 2021, 285, 131482.	8.2	16
26	Toxicity of Cadmium (Cd) on microalgal growth, (IC50 value) and its exertions in biofuel production. Biointerface Research in Applied Chemistry, 2020, 10, 5828-5833.	1.0	16
27	The Role of Microwave Irradiation Temperature on Nitrogen Doping in Metalâ€Free Graphene Catalysts for an Efficient Oxygen Reduction Reaction in an Alkaline Condition. ChemistrySelect, 2018, 3, 8962-8972.	1.5	15
28	Recent trends in the development and diversification of sericulture natural products for innovative and sustainable applications. Bioresource Technology Reports, 2021, 13, 100614.	2.7	13
29	Ameliorative effects of Mentha aquatica on diabetic and nephroprotective potential activities in STZ-induced renal injury. Comparative Clinical Pathology, 2020, 29, 189-199.	0.7	11
30	Microwave-assisted pretreatment of harmful algal blooms for microbial oil-centered biorefinery approach. Biomass Conversion and Biorefinery, 2022, 12, 3097-3105.	4.6	11
31	Hydrothermal liquefaction of municipal wastewater sludge and nutrient recovery from the aqueous phase. Biofuels, 2022, 13, 657-662.	2.4	10
32	Microwave-assisted polycrystalline Ag/AgO/AgCl nanocomposites synthesis using banana corm (rhizome of Musa sp.) extract: Characterization and antimicrobial studies. Journal of Industrial and Engineering Chemistry, 2022, 107, 145-154.	5.8	10
33	Microwaveâ€Assisted Biosynthesis of CuO Nanoparticles Using <i>Atalantia monophylla</i> (L.) Leaf Extract and its Biomedical Applications. Chemical Engineering and Technology, 2021, 44, 1496-1503.	1.5	9
34	Production of high value-added biomolecules by microalgae cultivation in wastewater from anaerobic digestates of food waste: a review. Biomass Conversion and Biorefinery, 2023, 13, 9625-9642.	4.6	9
35	Pomegranate peels mediated synthesis of calcium oxide (CaO) nanoparticles, characterization, and antimicrobial applications. Inorganic and Nano-Metal Chemistry, 0, , 1-8.	1.6	8
36	Bio-fabrication of selenium nanoparticles/micro-rods using cabbage leaves extract for photocatalytic dye degradation under natural sunlight irradiation. International Journal of Environmental Analytical Chemistry, 2023, 103, 6559-6576.	3.3	7

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37	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
38	Lipid Extraction From Fish Processing Residues for Sustainable Biofuel Production. , 2022, , 293-319.		3
39	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