

Vinod Kumar

List of Publications by Year in descending order

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56
papers

1,629
citations

257450

24
h-index

315739

38
g-index

58
all docs

58
docs citations

58
times ranked

1076
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	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
3	Edible hydrocolloids as sustainable substitute for non-biodegradable materials. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 693-725.	10.3	23
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	Synthesis of EDTA-functionalized graphene oxide-chitosan nanocomposite for simultaneous removal of inorganic and organic pollutants from complex wastewater. <i>Chemosphere</i> , 2022, 287, 132385.	8.2	57
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	Multifunctional β -Cyclodextrin-EDTA-Chitosan polymer adsorbent synthesis for simultaneous removal of heavy metals and organic dyes from wastewater. <i>Environmental Pollution</i> , 2022, 292, 118447.	7.5	80
9	Physicochemical properties, nutritional and sensory quality of low-fat Ashwagandha and Cilantro-fortified sponge cakes during storage. <i>Journal of Food Processing and Preservation</i> , 2022, 46, e16280.	2.0	8
10	Recent advances and viability in sustainable thermochemical conversion of sludge to bio-fuel production. <i>Fuel</i> , 2022, 316, 123351.	6.4	29
11	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
12	Simultaneous capturing of mixed contaminants from wastewater using novel one-pot chitosan functionalized with EDTA and graphene oxide adsorbent. <i>Environmental Pollution</i> , 2022, 304, 119130.	7.5	28
13	One-step functionalization of chitosan using EDTA: Kinetics and isotherms modeling for multiple heavy metals adsorption and their mechanism. <i>Journal of Water Process Engineering</i> , 2022, 49, 102989.	5.6	20
14	Multi-stage hydrothermal liquefaction modeling of sludge and microalgae biomass to increase bio-oil yield. <i>Fuel</i> , 2022, 328, 125253.	6.4	7
15	Sustainability of <i>Ageratum conyzoides</i> (billy goat weed) for bioethanol and recycling of residues for gaseous fuel production. <i>Engineering Reports</i> , 2021, 3, e12284.	1.7	2
16	Integration of microalgal bioremediation and biofuel production: A "clean up" strategy with potential for sustainable energy resources. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100128.	5.6	8
17	Microalgal Cd resistance and its exertions on pigments, biomass and lipid profiles. <i>Bioremediation Journal</i> , 2021, 25, 169-177.	2.0	1
18	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

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19	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
20	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
21	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
22	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
23	Food irradiation: Effect of ionizing and non-ionizing radiations on preservation of fruits and vegetables—a review. <i>Trends in Food Science and Technology</i> , 2021, 114, 372-385.	15.1	75
24	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
25	¹ H NMR-based metabolomics and lipidomics of microalgae. <i>Trends in Plant Science</i> , 2021, 26, 984-985.	8.8	3
26	Fabrication of GO-MnO ₂ nanocomposite using hydrothermal process for cationic and anionic dyes adsorption: Kinetics, isotherm, and reusability. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106045.	6.7	67
27	The potential of nuclear magnetic resonance (NMR) in metabolomics and lipidomics of microalgae- a review. <i>Archives of Biochemistry and Biophysics</i> , 2021, 710, 108987.	3.0	21
28	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
29	3D Bioprinting to Fabricate Living Microalgal Materials. <i>Trends in Biotechnology</i> , 2021, 39, 1243-1244.	9.3	8
30	Cold plasma technology: advanced and sustainable approach for wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 65062-65082.	5.3	36
31	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
32	Simultaneous Removal of Heavy Metals and Ciprofloxacin Micropollutants from Wastewater Using Ethylenediaminetetraacetic Acid-Functionalized β -Cyclodextrin-Chitosan Adsorbent. <i>ACS Omega</i> , 2021, 6, 34624-34634.	3.5	28
33	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
34	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
35	Microalgae fuel cell for wastewater treatment: Recent advances and challenges. <i>Journal of Water Process Engineering</i> , 2020, 38, 101549.	5.6	43
36	Graphene oxide-manganese ferrite (GO-MnFe ₂ O ₄) nanocomposite: One-pot hydrothermal synthesis and its use for adsorptive removal of Pb ²⁺ ions from aqueous medium. <i>Journal of Molecular Liquids</i> , 2020, 315, 113769.	4.9	65

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37	Integration of wastewater valorization with microalgae for biofuel production. , 2020, , 343-360.		0
38	Low-temperature catalyst based Hydrothermal liquefaction of harmful Macroalgal blooms, and aqueous phase nutrient recycling by microalgae. Scientific Reports, 2019, 9, 11384.	3.3	18
39	Detoxification mechanism of organophosphorus pesticide via carboxylestrase pathway that triggers de novo TAG biosynthesis in oleaginous microalgae. Aquatic Toxicology, 2019, 209, 49-55.	4.0	21
40	Multimetal tolerance mechanisms in bacteria: The resistance strategies acquired by bacteria that can be exploited to "clean-up" heavy metal contaminants from water. Aquatic Toxicology, 2019, 212, 1-10.	4.0	125
41	Different Cell Disruption and Lipid Extraction Methods from Microalgae for Biodiesel Production. , 2019, , 265-292.		16
42	Evaluation, comparison of different solvent extraction, cell disruption methods and hydrothermal liquefaction of Oedogonium macroalgae for biofuel production. Biotechnology Reports (Amsterdam,) Tj ETQq0 0 0 4 BT /Overclock 10 Tf		
43	An integrated approach for extracting fuel, chemicals, and residual carbon using pine needles. Biomass Conversion and Biorefinery, 2018, 8, 447-454.	4.6	8
44	The effects of ultraviolet radiation on growth, biomass, lipid accumulation and biodiesel properties of microalgae. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 787-793.	2.3	37
45	Sputtering based synthesis of CuO nanoparticles and their structural, thermal and optical studies. Materials Science in Semiconductor Processing, 2018, 76, 55-60.	4.0	60
46	Synthesis of ZrO ₂ nanoparticles using reactive magnetron sputtering and their structural, morphological and thermal studies. Materials Chemistry and Physics, 2018, 212, 268-273.	4.0	30
47	Production of biodiesel and bioethanol using algal biomass harvested from fresh water river. Renewable Energy, 2018, 116, 606-612.	8.9	83
48	Synergistic dynamics of light, photoperiod and chemical stimulants influences biomass and lipid productivity in Chlorella singularis (UUIIND5) for biodiesel production. Applied Biological Chemistry, 2018, 61, 7-13.	1.9	28
49	Bio-oil Production by Hydrothermal Liquefaction of Wet Biomass of Microalgae in a Plant with Heat Recovery. SSRN Electronic Journal, 2018, , .	0.4	1
50	Pretreated animal and human waste as a substantial nutrient source for cultivation of microalgae for biodiesel production. Environmental Science and Pollution Research, 2018, 25, 22052-22059.	5.3	21
51	Application of agar liquid-gel transition in cultivation and harvesting of microalgae for biodiesel production. Bioresource Technology, 2017, 243, 163-168.	9.6	38
52	Effect of bacterial amylase pretreatment on alcohol production from starch-based solid waste. Biofuels, 2016, 7, 465-470.	2.4	0
53	Biomass Pyrolysis-Current status and future directions. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 2914-2921.	2.3	20
54	Effect of bacterial amylase pretreatment on bioethanol production from starch-based solid waste (SBSW). Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 2604-2609.	2.3	7

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55	A Review on Microalgae Application in Bioenergy Generation & Integrated Wastewater Management. SSRN Electronic Journal, 0, , .	0.4	1
56	Dairy Industry wastewater and stormwater energy valorization: effect of wastewater nutrients on microalgae-yeast biomass. Biomass Conversion and Biorefinery, 0, , .	4.6	3