

# Krishna Kumar Yadav

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

5,583  
citations

117453

34  
h-index

88477

70  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4507  
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	Microplastics pollution in different aquatic environments and biota: A review of recent studies. <i>Marine Pollution Bulletin</i> , 2018, 133, 191-208.	2.3	441
3	Hazardous heavy metals contamination of vegetables and food chain: Role of sustainable remediation approaches - A review. <i>Environmental Research</i> , 2019, 179, 108792.	3.7	309
4	A review on current status of municipal solid waste management in India. <i>Journal of Environmental Sciences</i> , 2015, 37, 206-217.	3.2	286
5	Mechanistic understanding and holistic approach of phytoremediation: A review on application and future prospects. <i>Ecological Engineering</i> , 2018, 120, 274-298.	1.6	275
6	Chromium contamination and effect on environmental health and its remediation: A sustainable approaches. <i>Journal of Environmental Management</i> , 2021, 285, 112174.	3.8	256
7	Trace elements in soil-vegetables interface: Translocation, bioaccumulation, toxicity and amelioration - A review. <i>Science of the Total Environment</i> , 2019, 651, 2927-2942.	3.9	253
8	Fluoride contamination, health problems and remediation methods in Asian groundwater: A comprehensive review. <i>Ecotoxicology and Environmental Safety</i> , 2019, 182, 109362.	2.9	250
9	Review on transesterification of non-edible sources for biodiesel production with a focus on economic aspects, fuel properties and by-product applications. <i>Energy Conversion and Management</i> , 2019, 201, 112155.	4.4	246
10	A review of emerging adsorbents and current demand for defluoridation of water: Bright future in water sustainability. <i>Environment International</i> , 2018, 111, 80-108.	4.8	180
11	Bioaccumulation and potential sources of heavy metal contamination in fish species in River Ganga basin: Possible human health risks evaluation. <i>Toxicology Reports</i> , 2019, 6, 472-481.	1.6	179
12	A review on municipal solid waste as a renewable source for waste-to-energy project in India: Current practices, challenges, and future opportunities. <i>Journal of Cleaner Production</i> , 2020, 277, 123227.	4.6	176
13	GIS-based evaluation of groundwater geochemistry and statistical determination of the fate of contaminants in shallow aquifers from different functional areas of Agra city, India: levels and spatial distributions. <i>RSC Advances</i> , 2018, 8, 15876-15889.	1.7	89
14	Evaluating heavy metals contamination in soil and vegetables in the region of North India: Levels, transfer and potential human health risk analysis. <i>Environmental Toxicology and Pharmacology</i> , 2021, 82, 103563.	2.0	89
15	Human health risk assessment: Study of a population exposed to fluoride through groundwater of Agra city, India. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 106, 68-80.	1.3	85
16	Synthesis and Characterization of Amorphous Iron Oxide Nanoparticles by the Sonochemical Method and Their Application for the Remediation of Heavy Metals from Wastewater. <i>Nanomaterials</i> , 2020, 10, 1551.	1.9	81
17	Emerging approaches in lignocellulosic biomass pretreatment and anaerobic bioprocesses for sustainable biofuels production. <i>Journal of Cleaner Production</i> , 2022, 333, 130180.	4.6	67
18	Improved production of lipid contents by cultivating <i>Chlorella pyrenoidosa</i> in heterogeneous organic substrates. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1969-1978.	2.1	58

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19	Agro-Nanotechnology as an Emerging Field: A Novel Sustainable Approach for Improving Plant Growth by Reducing Biotic Stress. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2282.	1.3	56
20	Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. <i>Polymers</i> , 2021, 13, 3190.	2.0	56
21	Preparation, and structural of new NiS-SiO <sub>2</sub> and Cr <sub>2</sub> S <sub>3</sub> -TiO <sub>2</sub> nano-catalyst: Photocatalytic and antimicrobial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 194, 128-134.	1.7	54
22	Myco-remediation: A mechanistic understanding of contaminants alleviation from natural environment and future prospect. <i>Chemosphere</i> , 2021, 284, 131325.	4.2	54
23	An overview of silver nano-particles as promising materials for water disinfection. <i>Environmental Technology and Innovation</i> , 2021, 23, 101721.	3.0	51
24	Fungal Phytoremediation of Heavy Metal-Contaminated Resources: Current Scenario and Future Prospects. <i>Fungal Biology</i> , 2019, , 437-461.	0.3	50
25	Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics. <i>Molecules</i> , 2021, 26, 5313.	1.7	49
26	Removal of Cadmium and Chromium by Mixture of Silver Nanoparticles and Nano-Fibrillated Cellulose Isolated from Waste Peels of Citrus Sinensis. <i>Polymers</i> , 2021, 13, 234.	2.0	48
27	Molecular insights into plant-microbe interactions for sustainable remediation of contaminated environment. <i>Bioresource Technology</i> , 2022, 344, 126246.	4.8	47
28	An assessment of micro- and nanoplastics in the biosphere: A review of detection, monitoring, and remediation technology. <i>Chemical Engineering Journal</i> , 2022, 430, 132913.	6.6	42
29	Screening and evaluation of cellulolytic fungal strains for saccharification and bioethanol production from rice residue. <i>Energy</i> , 2020, 190, 116422.	4.5	41
30	Lanthanum phosphate foam as novel heterogeneous nanocatalyst for biodiesel production from waste cooking oil. <i>Renewable Energy</i> , 2021, 176, 228-236.	4.3	41
31	The Processing of Calcium Rich Agricultural and Industrial Waste for Recovery of Calcium Carbonate and Calcium Oxide and Their Application for Environmental Cleanup: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4212.	1.3	40
32	Understanding the impacts of the COVID-19 pandemic on sustainable agri-food system and agroecosystem decarbonization nexus: A review. <i>Journal of Cleaner Production</i> , 2021, 318, 128451.	4.6	40
33	Recent Advances in Synthesis and Degradation of Lignin and Lignin Nanoparticles and Their Emerging Applications in Nanotechnology. <i>Materials</i> , 2022, 15, 953.	1.3	39
34	Nano-phytoremediation of Pollutants from Contaminated Soil Environment: Current Scenario and Future Prospects. , 2018, , 383-401.		38
35	Conversion of waste frying oil into biodiesel using recoverable nanocatalyst based on magnetic graphene oxide supported ternary mixed metal oxide nanoparticles. <i>Bioresource Technology</i> , 2021, 323, 124561.	4.8	38
36	An overview of greenhouse gases emissions in Hungary. <i>Journal of Cleaner Production</i> , 2021, 314, 127865.	4.6	37

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37	Evaluating the geochemistry of groundwater contamination with iron and manganese and probabilistic human health risk assessment in endemic areas of the world's largest River Island, India. <i>Environmental Toxicology and Pharmacology</i> , 2021, 87, 103690.	2.0	37
38	A novel synthesis and characterization of polyhedral shaped amorphous iron oxide nanoparticles from incense sticks ash waste. <i>Environmental Technology and Innovation</i> , 2020, 20, 101089.	3.0	35
39	Onion Peel Waste Mediated-Green Synthesis of Zinc Oxide Nanoparticles and Their Phytotoxicity on Mung Bean and Wheat Plant Growth. <i>Materials</i> , 2022, 15, 2393.	1.3	34
40	Integrated hydrothermal and deep eutectic solvent-mediated fractionation of lignocellulosic biocomponents for enhanced accessibility and efficient conversion in anaerobic digestion. <i>Bioresource Technology</i> , 2022, 351, 127034.	4.8	34
41	Emerging Trends in the Remediation of Persistent Organic Pollutants Using Nanomaterials and Related Processes: A Review. <i>Nanomaterials</i> , 2022, 12, 2148.	1.9	34
42	Appraisal of contamination of heavy metals and health risk in agricultural soil of Jhansi city, India. <i>Environmental Toxicology and Pharmacology</i> , 2021, 88, 103740.	2.0	33
43	Recent Trends in Fascinating Applications of Nanotechnology in Allied Health Sciences. <i>Crystals</i> , 2022, 12, 39.	1.0	33
44	Haematological and histological changes in fish <i>Heteropneustes fossilis</i> exposed to pesticides from industrial waste water. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019, 25, 1251-1278.	1.7	32
45	Variations and similarities in structural, chemical, and elemental properties on the ashes derived from the coal due to their combustion in open and controlled manner. <i>Environmental Science and Pollution Research</i> , 2021, 28, 32609-32625.	2.7	31
46	Investigation of Heavy Metal Accumulation in Vegetables and Health Risk to Humans From Their Consumption. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	31
47	Review on Evaluation of Renewable Bioenergy Potential for Sustainable Development: Bright Future in Energy Practice in India. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16007-16030.	3.2	29
48	Recent and Emerging Trends in Remediation of Methylene Blue Dye from Wastewater by Using Zinc Oxide Nanoparticles. <i>Water (Switzerland)</i> , 2022, 14, 1749.	1.2	29
49	Recent advances on the removal of phosphorus in aquatic plant-based systems. <i>Environmental Technology and Innovation</i> , 2021, 24, 101933.	3.0	28
50	Nanostructured Antibiotics and Their Emerging Medicinal Applications: An Overview of Nanoantibiotics. <i>Antibiotics</i> , 2022, 11, 708.	1.5	28
51	Application of response surface method for Total organic carbon reduction in leachate treatment using Fenton process. <i>Environmental Technology and Innovation</i> , 2020, 19, 101009.	3.0	25
52	Phytoremediation of dairy wastewater using <i>Azolla pinnata</i> : Application of image processing technique for leaflet growth simulation. <i>Journal of Water Process Engineering</i> , 2021, 42, 102152.	2.6	25
53	Enriched Catalytic Activity of TiO <sub>2</sub> Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination. <i>Nanomaterials</i> , 2021, 11, 2808.	1.9	25
54	Recent Advances in Methods for the Recovery of Carbon Nanominerals and Polyaromatic Hydrocarbons from Coal Fly Ash and Their Emerging Applications. <i>Crystals</i> , 2021, 11, 88.	1.0	24

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55	The concentration of aflatoxin M1 in raw and pasteurized milk: A worldwide systematic review and meta-analysis. Trends in Food Science and Technology, 2021, 115, 22-30.	7.8	24
56	Monitoring the presence and persistence of SARS-CoV-2 in water-food-environmental compartments: State of the knowledge and research needs. Environmental Research, 2021, 200, 111373.	3.7	24
57	DFT/molecular scale, MD simulation and assessment of the eco-friendly anti-corrosion performance of a novel Schiff base on XC38 carbon steel in acidic medium. Journal of Molecular Liquids, 2021, 344, 117874.	2.3	24
58	Application of Green Synthesized MMT/Ag Nanocomposite for Removal of Methylene Blue from Aqueous Solution. Water (Switzerland), 2021, 13, 3206.	1.2	23
59	An experimental investigation on phytoremediation performance of water lettuce ( <i>Pistia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 117 93, 1543-1553.	1.3	21
60	A comprehensive review on the effects of engineered nanoparticles on microalgal treatment of pollutants from wastewater. Journal of Cleaner Production, 2022, 344, 131121.	4.6	21
61	Recent Advances in Methods for Recovery of Cenospheres from Fly Ash and Their Emerging Applications in Ceramics, Composites, Polymers and Environmental Cleanup. Crystals, 2021, 11, 1067.	1.0	19
62	Health and Environmental Risks of Incense Smoke: Mechanistic Insights and Cumulative Evidence. Journal of Inflammation Research, 2022, Volume 15, 2665-2693.	1.6	19
63	The Removal of a Textile Dye from an Aqueous Solution Using a Biocomposite Adsorbent. Polymers, 2022, 14, 2396.	2.0	19
64	Microporous metal-organic frameworks against endocrine-disruptor bisphenol A: parametric evaluation and optimization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127039.	2.3	17
65	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. Materials, 2021, 14, 6333.	1.3	17
66	Characterization of Fatty Acids, Polysaccharides, Amino Acids, and Minerals in Marine Macroalga <i>Chaetomorpha crassa</i> and Evaluation of Their Potentials in Skin Cosmetics. Molecules, 2021, 26, 7515.	1.7	16
67	Modeling of Textile Dye Removal from Wastewater Using Innovative Oxidation Technologies (Fe(II)/Chlorine and H <sub>2</sub> O <sub>2</sub> /Periodate Processes): Artificial Neural Network-Particle Swarm Optimization Hybrid Model. ACS Omega, 2022, 7, 13818-13825.	1.6	16
68	Recent Development in Bioremediation of Soil Pollutants Through Biochar for Environmental Sustainability. , 2020, , 123-140.		14
69	Corrosion protection performance of silicon-based coatings on carbon steel in NaCl solution: a theoretical and experimental assessment of the effect of plasma-enhanced chemical vapor deposition pretreatment. RSC Advances, 2022, 12, 15601-15612.	1.7	14
70	Recent Advances on Properties and Utility of Nanomaterials Generated from Industrial and Biological Activities. Crystals, 2021, 11, 634.	1.0	13
71	Transformation of hazardous sacred incense sticks ash waste into less toxic product by sequential approach prior to their disposal into the water bodies. Environmental Science and Pollution Research, 2023, 30, 71766-71778.	2.7	13
72	A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites. Crystals, 2021, 11, 1255.	1.0	13

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73	Impacts of Land Use Change on Water Quality Index in the Upper Ganges River near Haridwar, Uttarakhand: A GIS-Based Analysis. <i>Water (Switzerland)</i> , 2021, 13, 3572.	1.2	13
74	Recovery of iron nanominerals from sacred incense sticks ash waste collected from temples by wet and dry magnetic separation method. <i>Environmental Technology and Innovation</i> , 2022, 25, 102150.	3.0	11
75	Utilization of Air Pollutants by Plants: Need for Present and Future Scrutiny. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2741-2742.	2.4	10
76	Fabrication of different SnO <sub>2</sub> nanorods for enhanced photocatalytic degradation and antibacterial activity. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71574-71584.	2.7	9
77	Modified 7-Chloro-11H-indeno[1,2-b]quinoxaline Heterocyclic System for Biological Activities. <i>Catalysts</i> , 2022, 12, 213.	1.6	9
78	Utilization of Incense Stick Ash in Hydrometallurgy Methods for Extracting Oxides of Fe, Al, Si, and Ca. <i>Materials</i> , 2022, 15, 1879.	1.3	9
79	Mechanistic overview of metal tolerance in edible plants: A physiological and molecular perspective. , 2021, , 23-47.		8
80	Excellent hydrogen generation from ultrathin nanosheets of cobalt cyclotetraphosphate. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 265, 114983.	1.7	7
81	2D Personality of Multifunctional Carbon Nitrides towards Enhanced Catalytic Performance in Energy Storage and Remediation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3753.	1.3	6
82	Appraisal of probabilistic levels of toxic metals and health risk in cultivated and marketed vegetables in urban and peri-urban areas of Delhi, India. <i>Environmental Toxicology and Pharmacology</i> , 2022, 92, 103863.	2.0	6
83	A GIS-based tool for the analysis of the distribution and abundance of <i>Chilo sacchariphagus indicus</i> under the influence of biotic and abiotic factors. <i>Environmental Technology and Innovation</i> , 2021, 21, 101357.	3.0	4
84	Sensing beyond Senses: An Overview of Outstanding Strides in Architecting Nanopolymer-Enabled Sensors for Biomedical Applications. <i>Polymers</i> , 2022, 14, 601.	2.0	4
85	Enhanced Plasmon Based Ag and Au Nanosystems and Their Improved Biomedical Impacts. <i>Crystals</i> , 2022, 12, 589.	1.0	4
86	Surface phosphorization of nickel oxalate nanosheets to stabilize ultrathin nickel cyclotetraphosphate nanosheets for efficient hydrogen generation. <i>Materials Research Bulletin</i> , 2021, 139, 111275.	2.7	3
87	Dark fermentative biohydrogen production from vinicultural biomass without exogenous inoculum in a semi-batch reactor: A kinetic study. <i>Journal of Environmental Management</i> , 2022, 305, 114393.	3.8	3
88	Multitask Quantum Study of the Curcumin-Based Complex Physicochemical and Biological Properties. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2832.	1.8	3
89	Effect of Fly Ash Deposition on Biochemical Parameters of Different Crop Plants around Parichcha Thermal Power Plant, Jhansi, India. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2016, 5, 873-877.	0.0	1
90	An Overview on Environmental Degradation and Mitigation. <i>Water Science and Technology Library</i> , 2022, , 3-15.	0.2	1