Vijay Kumar

List of Publications by Year
in descending order

73	3,275	172207	155451
papers	citations	29 h-index	55 g-index

74	74	74	2970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biodegradation of phorate by bacterial strains in the presence of humic acid and metal ions. Journal of Basic Microbiology, 2022, 62, 498-507.	1.8	4
2	Sustainable removal of Cr(VI) using graphene oxide-zinc oxide nanohybrid: Adsorption kinetics, isotherms and thermodynamics. Environmental Research, 2022, 203, 111891.	3.7	101
3	Multifunctional nanohybrid for simultaneous detection and removal of Arsenic(III) from aqueous solutions. Chemosphere, 2022, 289, 133101.	4.2	26
4	Phytoremediation of heavy metals, metalloids, and radionuclides: Prospects and challenges. , 2022, , 253-276.		2
5	A validated high-performance thin-layer chromatography method for the simultaneous quantification of 6-gingerol, guggulsterone E and guggulsterone Z in coded formulation AYUSH SG-5 prepared for rheumatoid arthritis. Journal of Planar Chromatography - Modern TLC, 2022, 35, 23-33.	0.6	4
6	The validated pharmaceutical standard operating procedure and quality control study of the coded polyherbal tablet formulation AYUSH SG-5. South African Journal of Botany, 2022, 151, 319-327.	1.2	6
7	N-Acetylcysteine Reverses Monocrotophos Exposure-Induced Hepatic Oxidative Damage via Mitigating Apoptosis, Inflammation and Structural Changes in Rats. Antioxidants, 2022, 11, 90.	2.2	11
8	Phytomedicines explored under in vitro and in silico studies against coronavirus: An opportunity to develop traditional medicines. South African Journal of Botany, 2022, 151, 451-483.	1.2	2
9	Neuroprotective Effect of N-acetylcysteine Against Monocrotophos-Induced Oxidative Stress in Different Brain Regions of Rats. Applied Biochemistry and Biotechnology, 2022, 194, 4049-4065.	1.4	2
10	Competence of nanoparticles for removal of pesticides from wastewater: an overview. , 2022, , 253-266.		0
11	Investigation on the electrochemical properties of mesoporous Zn_{0.2}Ni_{0.05}Co_{0.5}O microspheres for supercapacitors. International Journal of Environmental Analytical Chemistry, 2021, 101, 1684-1696.	1.8	1
12	On the discrimination of soil samples by derivative diffuse reflectance UVâ€“vis-NIR spectroscopy and chemometric methods. Forensic Science International, 2021, 319, 110655.	1.3	13
13	Novel Strategies for Environmental Remediation of Pesticides Using Nanocatalysts. Nanotechnology in the Life Sciences, 2021, , 543-556.	0.4	1
14	Methylene Blue Dye Adsorption from Wastewater Using Hydroxyapatite/Gold Nanocomposite: Kinetic and Thermodynamics Studies. Nanomaterials, 2021, 11, 1403.	1.9	33
15	Phytochemical, Pharmacological Activities and Ayurvedic Significances of Magical Plant Mimosa pudica Linn. Mini-Reviews in Organic Chemistry, 2021, 18, 296-312.	0.6	5
16	Differential regulation of drought stress by biological membrane transporters and channels. Plant Cell Reports, 2021, 40, 1565-1583.	2.8	6
17	Toxicity and detoxification of monocrotophos from ecosystem using different approaches: A review. Chemosphere, 2021, 275, 130051.	4.2	21
18	Biodegradation of monocrotophos by indigenous soil bacterial isolates in the presence of humic acid, Fe (III) and Cu (II) ions. Bioresource Technology Reports, 2021, 15, 100778.	1.5	1

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19	Pharmacological Perspectives of Ayurvedic Herbs viz. Alstonia scholaris L., Picrorhiza kurroa, Swertia chirata and Caesalpinia crista Against COVID-19: A Mini-Review. Mini-Reviews in Organic Chemistry, 2021, 18, 841-849.	0.6	4
20	Revealing on hydrogen sulfide and nitric oxide signals coâ€ordination for plant growth under stress conditions. Physiologia Plantarum, 2020, 168, 301-317.	2.6	77
21	The effects of Fe(II), Cu(II) and humic acid on biodegradation of atrazine. Journal of Environmental Chemical Engineering, 2020, 8, 103539.	3.3	18
22	Current advancement and future prospect of biosorbents for bioremediation. Science of the Total Environment, 2020, 709, 135895.	3.9	165
23	Herbicide Glyphosate: Toxicity and Microbial Degradation. International Journal of Environmental Research and Public Health, 2020, 17, 7519.	1.2	91
24	COVID-19: Environment concern and impact of Indian medicinal system. Journal of Environmental Chemical Engineering, 2020, 8, 104144.	3.3	41
25	Biosurfactant-based bioremediation. , 2020, , 333-358.		8
26	Kinetic Study of the Biodegradation of Acephate by Indigenous Soil Bacterial Isolates in the Presence of Humic Acid and Metal Ions. Biomolecules, 2020, 10, 433.	1.8	33
27	Endophytic microbes in abiotic stress management. , 2020, , 91-123.		6
28	Endophytic bacteria in xenobiotic degradation. , 2020, , 125-156.		10
29	Glyphosate uptake, translocation, resistance emergence in crops, analytical monitoring, toxicity and degradation: a review. Environmental Chemistry Letters, 2020, 18, 663-702.	8.3	113
30	Herbicides and Plant Growth Regulators: Current Developments and Future Challenges. , 2020, , 67-81.		7
31	Phytochemical Constituents of Guggul and their Biological Qualities. Mini-Reviews in Organic Chemistry, 2020, 17, 277-288.	0.6	18
32	Saccharomyces cerevisiae as Model Organism to Study Biological Activities of Nanoparticles. , 2020, , 101-115.		2
33	Biological Control Agents: Diversity, Ecological Significances, and Biotechnological Applications. , 2020, , 31-44.		7
34	Microbial Remediation for Wastewater Treatment. Microorganisms for Sustainability, 2020, , 57-71.	0.4	2
35	Challenges and Future Perspectives of Nanotoxicology. , 2020, , 451-466.		4
36	Zebra Fish Infection Model: From Pathogenesis to Therapeutics. , 2020, , 429-440.		1

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37	Volatile and semi-volatile compounds of Tephrosia purpurea and its medicinal activities: Experimental and computational studies. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101222.	1.5	20
38	Applications of Nanoparticles in Wastewater Treatment. Nanotechnology in the Life Sciences, 2019, , 395-418.	0.4	71
39	Effects of organophosphate pesticides on siderophore producing soils microorganisms. Biocatalysis and Agricultural Biotechnology, 2019, 21, 101359.	1.5	33
40	Plant growth promoting rhizobacteria from heavy metal contaminated soil promote growth attributes of Pisum sativum L.. Biocatalysis and Agricultural Biotechnology, 2019, 17, 665-671.	1.5	51
41	Toxicity, monitoring and biodegradation of organophosphate pesticides: A review. Critical Reviews in Environmental Science and Technology, 2019, 49, 1135-1187.	6.6	274
42	Assessment of heavy metal ions, essential metal ions, and antioxidant properties of the most common herbal drugs in Indian Ayurvedic hospital: For ensuring quality assurance of certain Ayurvedic drugs. Biocatalysis and Agricultural Biotechnology, 2019, 18, 101018.	1.5	37
43	Influence of humic acid, iron and copper on microbial degradation of fungicide Carbendazim. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101196.	1.5	35
44	Antioxidant enzymes regulation in plants in reference to reactive oxygen species (ROS) and reactive nitrogen species (RNS). Plant Gene, 2019, 19, 100182.	1.4	280
45	Kinetic study of the biodegradation of glyphosate by indigenous soil bacterial isolates in presence of humic acid, Fe(III) and Cu(II) ions. Journal of Environmental Chemical Engineering, 2019, 7, 103098.	3.3	72
46	Synthesis, biological activities and docking studies of piperazine incorporated 1, 3, 4-oxadiazole derivatives. Journal of Molecular Structure, 2019, 1191, 197-205.	1.8	35
47	Fungal Enzymes for the Textile Industry. Fungal Biology, 2019, , 459-482.	0.3	7
48	Fungal Xylanases: Sources, Types, and Biotechnological Applications. Fungal Biology, 2019, , 405-428.	0.3	10
49	Green synthesis of silver nanoparticles using leaf extract of Holoptelea integrifolia and preliminary investigation of its antioxidant, anti-inflammatory, antidiabetic and antibacterial activities. Journal of Environmental Chemical Engineering, 2019, 7, 103094.	3.3	128
50	High resolution GC/MS analysis of the Holoptelea integrifoli's leaves and their medicinal qualities. Biocatalysis and Agricultural Biotechnology, 2019, 22, 101405.	1.5	13
51	Phytochemical, Analytical and Medicinal Studies of Holoptelea integrifolia Roxb. Planch - A Review. Current Traditional Medicine, 2019, 5, 270-277.	0.1	10
52	Comparative Assessment of Phytochemicals, Antioxidant, and Antimicrobial Potential of Stem Bark and Small Branches of Buchanania cochinchinensis (Lour.) MR Almeida for Substitution in Ayurvedic Drugs. Journal of Drug Research in Ayurvedic Sciences, 2019, 4, 72-83.	0.2	1
53	High electrochemical performance of 3D highly porous Zn_{0.2}Ni_{0.8}Co₂O₄ microspheres as an electrode material for electrochemical energy storage. CrystEngComm, 2018, 20, 2159-2168.	1.3	19
54	Spectral, structural and energetic study of acephate, glyphosate, monocrotophos and phorate: an experimental and computational approach. Journal of Taibah University for Science, 2018, 12, 69-78.	1.1	27

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55	Toxicity, degradation and analysis of theÂherbicide atrazine. Environmental Chemistry Letters, 2018, 16, 211-237.	8.3	296
56	Complexation of trichlorosalicylic acid with alkaline and first row transition metals as a switch for their antibacterial activity. Inorganica Chimica Acta, 2018, 469, 379-386.	1.2	18
57	Fungal Biotechnology: Role and Aspects. , 2018, , 91-103.		11
58	Electrochemical performance of spinel-type Ni doped ZnCo2O4 mesoporous rods as an electrode for supercapacitors. AIP Conference Proceedings, 2018, , .	0.3	1
59	Phytochemical, Antioxidant, Antimicrobial, and Protein Binding Qualities of Hydro-ethanolic Extract of Tinospora cordifolia. Journal of Biologically Active Products From Nature, 2018, 8, 192-200.	0.1	21
60	Efficient biodegradation of acephate by Pseudomonas pseudoalcaligenes PS-5 in the presence and absence of heavy metal ions [Cu(II) and Fe(III)], and humic acid. 3 Biotech, 2017, 7, 262.	1.1	48
61	Design, synthesis, and characterization of 2,2-bis(2,4-dinitrophenyl)-2-(phosphonatomethylamino)acetate as a herbicidal and biological active agent. Journal of Chemical Biology, 2017, 10, 179-190.	2.2	29
62	Pesticides Curbing Soil Fertility: Effect of Complexation of Free Metal Ions. Frontiers in Chemistry, 2017, 5, 43.	1.8	52
63	Unexpected formation of Nâ€²-phenyl-thiophosphorohydrazidic acid O,S-dimethyl ester from acephate: chemical, biotechnical and computational study. 3 Biotech, 2016, 6, 1.	1.1	252
64	Toxicity, monitoring and biodegradation of the fungicide carbendazim. Environmental Chemistry Letters, 2016, 14, 317-329.	8.3	254
65	Bioremediation of heavy metals by employing resistant microbial isolates from agricultural soil irrigated with Industrial Waste water. Oriental Journal of Chemistry, 2015, 31, 357-361.	0.1	38
66	Toll-like receptor-associated keratitis and strategies for its management. 3 Biotech, 2015, 5, 611-619.	1.1	8
67	Designing, syntheses, characterization, computational study and biological activities of silver-phenothiazine metal complex. Journal of Molecular Structure, 2015, 1099, 135-141.	1.8	21
68	Interactions of atrazine with transition metal ions in aqueous media: experimental and computational approach. 3 Biotech, 2015, 5, 791-798.	1.1	31
69	Potential of Plant Growth Promoting Traits by Bacteria Isolated from Heavy Metal Contaminated Soils. Bulletin of Environmental Contamination and Toxicology, 2015, 94, 807-814.	1.3	75
70	A review on sample preparation and chromatographic determination of acephate and methamidophos in different samples. Arabian Journal of Chemistry, 2015, 8, 624-631.	2.3	44
71	Bioremediation of Petroleum hydrocarbon by using Pseudomonas species isolated from Petroleum contaminated soil. Oriental Journal of Chemistry, 2014, 30, 1771-1776.	0.1	22
72	Simultaneous determination of seven carbamate pesticide residues in gram, wheat, lentil, soybean, fenugreek leaves and apple matrices. Microchemical Journal, 2013, 111, 91-96.	2.3	40

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73	Thin-Layer Chromatography: Comparative Estimation of Soil's Atrazine. Current World Environment Journal, 2013, 8, 469-472.	0.2	35