

# Vijay Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

3,275  
citations

172207

29  
h-index

155451

55  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxicity, degradation and analysis of the herbicide atrazine. <i>Environmental Chemistry Letters</i> , 2018, 16, 211-237.	8.3	296
2	Antioxidant enzymes regulation in plants in reference to reactive oxygen species (ROS) and reactive nitrogen species (RNS). <i>Plant Gene</i> , 2019, 19, 100182.	1.4	280
3	Toxicity, monitoring and biodegradation of organophosphate pesticides: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1135-1187.	6.6	274
4	Toxicity, monitoring and biodegradation of the fungicide carbendazim. <i>Environmental Chemistry Letters</i> , 2016, 14, 317-329.	8.3	254
5	Unexpected formation of $N^{\epsilon}$ -phenyl-thiophosphorohydrazidic acid O,S-dimethyl ester from acephate: chemical, biotechnical and computational study. <i>3 Biotech</i> , 2016, 6, 1.	1.1	252
6	Current advancement and future prospect of biosorbents for bioremediation. <i>Science of the Total Environment</i> , 2020, 709, 135895.	3.9	165
7	Green synthesis of silver nanoparticles using leaf extract of <i>Holoptelea integrifolia</i> and preliminary investigation of its antioxidant, anti-inflammatory, antidiabetic and antibacterial activities. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103094.	3.3	128
8	Glyphosate uptake, translocation, resistance emergence in crops, analytical monitoring, toxicity and degradation: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 663-702.	8.3	113
9	Sustainable removal of Cr(VI) using graphene oxide-zinc oxide nanohybrid: Adsorption kinetics, isotherms and thermodynamics. <i>Environmental Research</i> , 2022, 203, 111891.	3.7	101
10	Herbicide Glyphosate: Toxicity and Microbial Degradation. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7519.	1.2	91
11	Revealing on hydrogen sulfide and nitric oxide signals coordination for plant growth under stress conditions. <i>Physiologia Plantarum</i> , 2020, 168, 301-317.	2.6	77
12	Potential of Plant Growth Promoting Traits by Bacteria Isolated from Heavy Metal Contaminated Soils. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 94, 807-814.	1.3	75
13	Kinetic study of the biodegradation of glyphosate by indigenous soil bacterial isolates in presence of humic acid, Fe(III) and Cu(II) ions. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103098.	3.3	72
14	Applications of Nanoparticles in Wastewater Treatment. <i>Nanotechnology in the Life Sciences</i> , 2019, , 395-418.	0.4	71
15	Pesticides Curbing Soil Fertility: Effect of Complexation of Free Metal Ions. <i>Frontiers in Chemistry</i> , 2017, 5, 43.	1.8	52
16	Plant growth promoting rhizobacteria from heavy metal contaminated soil promote growth attributes of <i>Pisum sativum</i> L.. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 665-671.	1.5	51
17	Efficient biodegradation of acephate by <i>Pseudomonas pseudoalcaligenes</i> PS-5 in the presence and absence of heavy metal ions [Cu(II) and Fe(III)], and humic acid. <i>3 Biotech</i> , 2017, 7, 262.	1.1	48
18	A review on sample preparation and chromatographic determination of acephate and methamidophos in different samples. <i>Arabian Journal of Chemistry</i> , 2015, 8, 624-631.	2.3	44

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19	COVID-19: Environment concern and impact of Indian medicinal system. Journal of Environmental Chemical Engineering, 2020, 8, 104144.	3.3	41
20	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
21	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
22	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
23	Influence of humic acid, iron and copper on microbial degradation of fungicide Carbendazim. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101196.	1.5	35
24	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
25	Thin-Layer Chromatography: Comparative Estimation of Soil's Atrazine. Current World Environment Journal, 2013, 8, 469-472.	0.2	35
26	Effects of organophosphate pesticides on siderophore producing soils microorganisms. Biocatalysis and Agricultural Biotechnology, 2019, 21, 101359.	1.5	33
27	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
28	Methylene Blue Dye Adsorption from Wastewater Using Hydroxyapatite/Gold Nanocomposite: Kinetic and Thermodynamics Studies. Nanomaterials, 2021, 11, 1403.	1.9	33
29	Interactions of atrazine with transition metal ions in aqueous media: experimental and computational approach. 3 Biotech, 2015, 5, 791-798.	1.1	31
30	Design, synthesis, and characterization of 2,2-bis(2,4-dinitrophenyl)-2-(phosphonomethylamino)acetate as a herbicidal and biological active agent. Journal of Chemical Biology, 2017, 10, 179-190.	2.2	29
31	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
32	Multifunctional nanohybrid for simultaneous detection and removal of Arsenic(III) from aqueous solutions. Chemosphere, 2022, 289, 133101.	4.2	26
33	Bioremediation of Petroleum hydrocarbon by using Pseudomonas species isolated from Petroleum contaminated soil. Oriental Journal of Chemistry, 2014, 30, 1771-1776.	0.1	22
34	Designing, syntheses, characterization, computational study and biological activities of silver-phenothiazine metal complex. Journal of Molecular Structure, 2015, 1099, 135-141.	1.8	21
35	Phytochemical, Antioxidant, Antimicrobial, and Protein Binding Qualities of Hydro-ethanolic Extract of <i>Tinospora cordifolia</i> . Journal of Biologically Active Products From Nature, 2018, 8, 192-200.	0.1	21
36	Toxicity and detoxification of monocrotophos from ecosystem using different approaches: A review. Chemosphere, 2021, 275, 130051.	4.2	21

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37	Volatile and semi-volatile compounds of <i>Tephrosia purpurea</i> and its medicinal activities: Experimental and computational studies. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101222.	1.5	20
38	High electrochemical performance of 3D highly porous Zn <sub>0.2</sub> Ni <sub>0.8</sub> Co <sub>2</sub> O <sub>4</sub> microspheres as an electrode material for electrochemical energy storage. <i>CrystEngComm</i> , 2018, 20, 2159-2168.	1.3	19
39	Complexation of trichlorosalicylic acid with alkaline and first row transition metals as a switch for their antibacterial activity. <i>Inorganica Chimica Acta</i> , 2018, 469, 379-386.	1.2	18
40	The effects of Fe(II), Cu(II) and humic acid on biodegradation of atrazine. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103539.	3.3	18
41	Phytochemical Constituents of Guggul and their Biological Qualities. <i>Mini-Reviews in Organic Chemistry</i> , 2020, 17, 277-288.	0.6	18
42	High resolution GC/MS analysis of the <i>Holoptelea integrifoli</i> 's leaves and their medicinal qualities. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101405.	1.5	13
43	On the discrimination of soil samples by derivative diffuse reflectance UV-vis-NIR spectroscopy and chemometric methods. <i>Forensic Science International</i> , 2021, 319, 110655.	1.3	13
44	Fungal Biotechnology: Role and Aspects. , 2018, , 91-103.		11
45	N-Acetylcysteine Reverses Monocrotophos Exposure-Induced Hepatic Oxidative Damage via Mitigating Apoptosis, Inflammation and Structural Changes in Rats. <i>Antioxidants</i> , 2022, 11, 90.	2.2	11
46	Fungal Xylanases: Sources, Types, and Biotechnological Applications. <i>Fungal Biology</i> , 2019, , 405-428.	0.3	10
47	Endophytic bacteria in xenobiotic degradation. , 2020, , 125-156.		10
48	Phytochemical, Analytical and Medicinal Studies of <i>Holoptelea integrifolia</i> Roxb. Planch - A Review. <i>Current Traditional Medicine</i> , 2019, 5, 270-277.	0.1	10
49	Toll-like receptor-associated keratitis and strategies for its management. <i>3 Biotech</i> , 2015, 5, 611-619.	1.1	8
50	Biosurfactant-based bioremediation. , 2020, , 333-358.		8
51	Fungal Enzymes for the Textile Industry. <i>Fungal Biology</i> , 2019, , 459-482.	0.3	7
52	Herbicides and Plant Growth Regulators: Current Developments and Future Challenges. , 2020, , 67-81.		7
53	Biological Control Agents: Diversity, Ecological Significances, and Biotechnological Applications. , 2020, , 31-44.		7
54	Endophytic microbes in abiotic stress management. , 2020, , 91-123.		6

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55	Differential regulation of drought stress by biological membrane transporters and channels. <i>Plant Cell Reports</i> , 2021, 40, 1565-1583.	2.8	6
56	The validated pharmaceutical standard operating procedure and quality control study of the coded polyherbal tablet formulation AYUSH SG-5. <i>South African Journal of Botany</i> , 2022, 151, 319-327.	1.2	6
57	Phytochemical, Pharmacological Activities and Ayurvedic Significances of Magical Plant <i>Mimosa pudica</i> Linn. <i>Mini-Reviews in Organic Chemistry</i> , 2021, 18, 296-312.	0.6	5
58	Biodegradation of phorate by bacterial strains in the presence of humic acid and metal ions. <i>Journal of Basic Microbiology</i> , 2022, 62, 498-507.	1.8	4
59	Challenges and Future Perspectives of Nanotoxicology. , 2020, , 451-466.		4
60	Pharmacological Perspectives of Ayurvedic Herbs viz. <i>Alstonia scholaris</i> L., <i>Picrorhiza kurroa</i> , <i>Swertia chirata</i> and <i>Caesalpinia crista</i> Against COVID-19: A Mini-Review. <i>Mini-Reviews in Organic Chemistry</i> , 2021, 18, 841-849.	0.6	4
61	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. <i>Journal of Planar Chromatography - Modern TLC</i> , 2022, 35, 23-33.	0.6	4
62	<i>Saccharomyces cerevisiae</i> as Model Organism to Study Biological Activities of Nanoparticles. , 2020, , 101-115.		2
63	Microbial Remediation for Wastewater Treatment. <i>Microorganisms for Sustainability</i> , 2020, , 57-71.	0.4	2
64	Phytoremediation of heavy metals, metalloids, and radionuclides: Prospects and challenges. , 2022, , 253-276.		2
65	Phytomedicines explored under in vitro and in silico studies against coronavirus: An opportunity to develop traditional medicines. <i>South African Journal of Botany</i> , 2022, 151, 451-483.	1.2	2
66	Neuroprotective Effect of N-acetylcysteine Against Monocrotophos-Induced Oxidative Stress in Different Brain Regions of Rats. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 4049-4065.	1.4	2
67	Electrochemical performance of spinel-type Ni doped ZnCo <sub>2</sub> O <sub>4</sub> mesoporous rods as an electrode for supercapacitors. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
68	Investigation on the electrochemical properties of mesoporous Zn <sub>0.2</sub> Ni <sub>0.05</sub> Co <sub>0.5</sub> O microspheres for supercapacitors. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 1684-1696.	1.8	1
69	Novel Strategies for Environmental Remediation of Pesticides Using Nanocatalysts. <i>Nanotechnology in the Life Sciences</i> , 2021, , 543-556.	0.4	1
70	Biodegradation of monocrotophos by indigenous soil bacterial isolates in the presence of humic acid, Fe (III) and Cu (II) ions. <i>Bioresource Technology Reports</i> , 2021, 15, 100778.	1.5	1
71	Comparative Assessment of Phytochemicals, Antioxidant, and Antimicrobial Potential of Stem Bark and Small Branches of <i>Buchanania cochinchinensis</i> (Lour.) MR Almeida for Substitution in Ayurvedic Drugs. <i>Journal of Drug Research in Ayurvedic Sciences</i> , 2019, 4, 72-83.	0.2	1
72	Zebra Fish Infection Model: From Pathogenesis to Therapeutics. , 2020, , 429-440.		1

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73	Competence of nanoparticles for removal of pesticides from wastewater: an overview. , 2022, , 253-266.		0