

Vijay Kumar

List of Publications by Year in descending order

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86
papers

4,475
citations

117453

34
h-index

110170

64
g-index

87
all docs

87
docs citations

87
times ranked

4726
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-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	Aluminium neurotoxicity: neurobehavioural and oxidative aspects. <i>Archives of Toxicology</i> , 2009, 83, 965-978.	1.9	228
7	Oxidative stress and mitochondrial dysfunction in aluminium neurotoxicity and its amelioration: A review. <i>NeuroToxicology</i> , 2014, 41, 154-166.	1.4	169
8	Current advancement and future prospect of biosorbents for bioremediation. <i>Science of the Total Environment</i> , 2020, 709, 135895.	3.9	165
9	A sustainable paradigm of sewage sludge biochar: Valorization, opportunities, challenges and future prospects. <i>Journal of Cleaner Production</i> , 2020, 269, 122259.	4.6	143
10	Mitochondrial oxidative stress and dysfunction in arsenic neurotoxicity: A review. <i>Journal of Applied Toxicology</i> , 2016, 36, 179-188.	1.4	139
11	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
12	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
13	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
14	Impairment of mitochondrial energy metabolism in different regions of rat brain following chronic exposure to aluminium. <i>Brain Research</i> , 2008, 1232, 94-103.	1.1	93
15	Nitrates in the environment: A critical review of their distribution, sensing techniques, ecological effects and remediation. <i>Chemosphere</i> , 2022, 287, 131996.	4.2	92
16	Herbicide Glyphosate: Toxicity and Microbial Degradation. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7519.	1.2	91
17	Susceptibility of mitochondrial superoxide dismutase to aluminium induced oxidative damage. <i>Toxicology</i> , 2009, 255, 117-123.	2.0	87
18	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

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19	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
20	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
21	Aluminium-induced oxidative DNA damage recognition and cell-cycle disruption in different regions of rat brain. <i>Toxicology</i> , 2009, 264, 137-144.	2.0	71
22	Biochemical and Molecular Alterations Following Arsenic-Induced Oxidative Stress and Mitochondrial Dysfunction in Rat Brain. <i>Biological Trace Element Research</i> , 2015, 167, 121-129.	1.9	63
23	Adsorption and detoxification of pharmaceutical compounds from wastewater using nanomaterials: A review on mechanism, kinetics, valorization and circular economy. <i>Journal of Environmental Management</i> , 2021, 300, 113569.	3.8	61
24	Pesticides Curbing Soil Fertility: Effect of Complexation of Free Metal Ions. <i>Frontiers in Chemistry</i> , 2017, 5, 43.	1.8	52
25	Impaired mitochondrial energy metabolism and kinetic properties of cytochrome oxidase following acute aluminium phosphide exposure in rat liver. <i>Food and Chemical Toxicology</i> , 2010, 48, 53-60.	1.8	50
26	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
27	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
28	<i>Premna integrifolia</i> ameliorates cyclophosphamide-induced hepatotoxicity by modulation of oxidative stress and apoptosis. <i>Biomedicine and Pharmacotherapy</i> , 2018, 107, 634-643.	2.5	41
29	COVID-19: Environment concern and impact of Indian medicinal system. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104144.	3.3	41
30	Simultaneous determination of seven carbamate pesticide residues in gram, wheat, lentil, soybean, fenugreek leaves and apple matrices. <i>Microchemical Journal</i> , 2013, 111, 91-96.	2.3	40
31	Protective Effect of Hydroxytyrosol Against Oxidative Stress Mediated by Arsenic-Induced Neurotoxicity in Rats. <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 27-39.	1.4	39
32	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. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 18, 101018.	1.5	37
33	Detection and disinfection of COVID-19 virus in wastewater. <i>Environmental Chemistry Letters</i> , 2021, 19, 1917-1933.	8.3	37
34	Chronic Arsenic Exposure-Induced Oxidative Stress is Mediated by Decreased Mitochondrial Biogenesis in Rat Liver. <i>Biological Trace Element Research</i> , 2016, 173, 87-95.	1.9	36
35	Influence of humic acid, iron and copper on microbial degradation of fungicide Carbendazim. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101196.	1.5	35
36	Synthesis, biological activities and docking studies of piperazine incorporated 1, 3, 4-oxadiazole derivatives. <i>Journal of Molecular Structure</i> , 2019, 1191, 197-205.	1.8	35

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37	Effects of organophosphate pesticides on siderophore producing soils microorganisms. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 21, 101359.	1.5	33
38	Kinetic Study of the Biodegradation of Acephate by Indigenous Soil Bacterial Isolates in the Presence of Humic Acid and Metal Ions. <i>Biomolecules</i> , 2020, 10, 433.	1.8	33
39	Interactions of atrazine with transition metal ions in aqueous media: experimental and computational approach. <i>3 Biotech</i> , 2015, 5, 791-798.	1.1	31
40	Toxicity of the Acetamiprid insecticide for mammals: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1453-1478.	8.3	31
41	Design, synthesis, and characterization of 2,2-bis(2,4-dinitrophenyl)-2-(phosphonomethylamino)acetate as a herbicidal and biological active agent. <i>Journal of Chemical Biology</i> , 2017, 10, 179-190.	2.2	29
42	Arsenic-induced mitochondrial oxidative damage is mediated by decreased PGC-1 α expression and its downstream targets in rat brain. <i>Chemico-Biological Interactions</i> , 2016, 256, 228-235.	1.7	28
43	Spectral, structural and energetic study of acephate, glyphosate, monocrotophos and phorate: an experimental and computational approach. <i>Journal of Taibah University for Science</i> , 2018, 12, 69-78.	1.1	27
44	Hepatoprotective efficacy of <i>Premna integrifolia</i> L. leaves against aflatoxin B1-induced toxicity in mice. <i>Toxicol</i> , 2019, 166, 88-100.	0.8	26
45	Beliefs and Therapeutic Preferences of Mothers in Management of Acute Diarrhoeal Disease in Children. <i>Journal of Tropical Pediatrics</i> , 1985, 31, 109-112.	0.7	24
46	Mitochondrial Dysfunction in Arsenic-Induced Hepatotoxicity: Pathogenic and Therapeutic Implications. <i>Biological Trace Element Research</i> , 2022, 200, 261-270.	1.9	23
47	Designing, syntheses, characterization, computational study and biological activities of silver-phenothiazine metal complex. <i>Journal of Molecular Structure</i> , 2015, 1099, 135-141.	1.8	21
48	Protective effect of hydroxytyrosol in arsenic-induced mitochondrial dysfunction in rat brain. <i>Journal of Biochemical and Molecular Toxicology</i> , 2017, 31, N/A.	1.4	21
49	Toxicity and detoxification of monocrotophos from ecosystem using different approaches: A review. <i>Chemosphere</i> , 2021, 275, 130051.	4.2	21
50	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
51	An insight in bacteriophage based biosensors with focus on their detection methods and recent advancements. <i>Environmental Technology and Innovation</i> , 2020, 20, 101081.	3.0	19
52	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
53	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
54	Structural and molecular alterations in arsenic-induced hepatic oxidative stress in rats: a FTIR study. <i>Toxicological and Environmental Chemistry</i> , 2015, 97, 1408-1421.	0.6	14

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55	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
56	Pictorial maternal and neonatal records for illiterate traditional birth attendants. <i>International Journal of Gynecology and Obstetrics</i> , 1981, 19, 281-284.	1.0	12
57	Congenital Maxillomandibular Syngnathia: Review of Literature and Proposed New Classification System. <i>Journal of Maxillofacial and Oral Surgery</i> , 2021, 20, 19-36.	0.6	11
58	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
59	Effectiveness of oral health education on oral hygiene status among schizophrenic patients: A randomized controlled study. <i>Special Care in Dentistry</i> , 2019, 39, 255-261.	0.4	10
60	Acral Gangrene: Ugly Cousin of "COVID Toes" in Multisystem Inflammatory Syndrome in Children Associated with SARS-CoV-2?. <i>Pediatric Infectious Disease Journal</i> , 2021, 40, e312-e313.	1.1	10
61	Synthesis, Characterization, Antimicrobial, Anti-tubercular, Antioxidant Activities and Docking Simulations of Derivatives of 2-(pyridin-3-yl)-1Hbenzo[d]imidazole and 1,3,4-Oxadiazole Analogy. <i>Letters in Drug Design and Discovery</i> , 2020, 17, 1047-1059.	0.4	10
62	Physiological responses, tolerance, and remediation strategies in plants exposed to metalloids. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40233-40248.	2.7	9
63	Toll-like receptor-associated keratitis and strategies for its management. <i>3 Biotech</i> , 2015, 5, 611-619.	1.1	8
64	Protective effect of coenzyme Q10 nanoparticles against monocrotophos induced oxidative stress in kidney tissues of rats. <i>Biologia (Poland)</i> , 2021, 76, 1849-1857.	0.8	7
65	Nasotracheal vs. Orotracheal Intubation and Post-extubation Airway Obstruction in Critically Ill Children: An Open-Label Randomized Controlled Trial. <i>Frontiers in Pediatrics</i> , 2021, 9, 713516.	0.9	6
66	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
67	Effectiveness of topical fluorides in prevention of radiation caries in adults: A systematic review and meta-analysis. <i>Oral Oncology</i> , 2022, 129, 105869.	0.8	6
68	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
69	N-acetylcysteine ameliorates monocrotophos exposure-induced mitochondrial dysfunctions in rat liver. <i>Toxicology Mechanisms and Methods</i> , 2022, 32, 686-694.	1.3	5
70	Indian visceral leishmaniasis with extensive lymphadenopathy "An unusual presentation: A case report with literature review. <i>CytoJournal</i> , 2017, 14, 9.	0.8	4
71	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
72	Spermatic granuloma presenting as an epididymal nodule: fine needle aspiration cytological findings and differential diagnosis. <i>Indian Journal of Pathology and Microbiology</i> , 2004, 47, 509-10.	0.1	4

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73	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
74	Oral health perception and plight of patients of schizophrenia. <i>International Journal of Dental Hygiene</i> , 2021, 19, 121-126.	0.8	3
75	Cytology of achylous hematuria: A clue to an underlying uncommon clinical scenario. <i>CytoJournal</i> , 2018, 15, 30.	0.8	3
76	Flow cytometric analysis of DNA indices, expression of p53 and multidrug resistance genes in multiple myeloma patients. , 2004, 26, 271-7.		3
77	Intervention strategies for reduction of infant mortality. <i>Indian Journal of Pediatrics</i> , 1985, 52, 127-132.	0.3	2
78	Percentile growth charts for Punjabi infants. <i>Indian Journal of Pediatrics</i> , 1988, 55, 773-782.	0.3	2
79	Cyodiagnosis of extramedullary hematopoiesis in serous effusion: A rare presentation unfolding the underlying etiology. <i>CytoJournal</i> , 2018, 15, 18.	0.8	2
80	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
81	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
82	Hawthorne effect: A methodological problem in growth studies during infancy.. <i>Jinruigaku Zasshi = the Journal of the Anthropological Society of Nihon</i> , 1986, 94, 33-38.	0.2	1
83	Plasmablastic light chain myeloma presenting as pancytopenia: An unusual presentation. <i>The National Medical Journal of India</i> , 2017, 30, 266.	0.1	1
84	Malignant melanoma of conjunctiva: Diagnosis on fine-needle aspiration cytology. <i>Journal of Laboratory Physicians</i> , 2018, 10, 453-456.	0.4	1
85	Transcriptional regulation of cytochrome c oxidase subunits in rat brain following sodium arsenite exposure. <i>Toxicological and Environmental Chemistry</i> , 2017, 99, 505-515.	0.6	0
86	ROLE OF FLOWCYTOMETRIC IMMUNOPHENOTYPING IN CHRONIC LYMPHOPROLIFERATIVE DISORDERS: A 6-YEAR STUDY. , 2021, , 68-71.		0