

# Vivek Kumar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3766469/publications.pdf>

Version: 2024-02-01

69  
papers

1,922  
citations

279798

23  
h-index

289244

40  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper bioavailability, uptake, toxicity and tolerance in plants: A comprehensive review. Chemosphere, 2021, 262, 127810.	8.2	250
2	Valorization of agricultural waste for biogas based circular economy in India: A research outlook. Bioresource Technology, 2020, 304, 123036.	9.6	219
3	Accumulation and Translocation of Metals in Soil and Different Parts of French Bean ( <i>Phaseolus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 2014, 92, 103-108.	2.7	66
4	Fertigation effect of distillery effluent on agronomical practices of <i>Trigonella foenum-graecum</i> L. (Fenugreek). Environmental Monitoring and Assessment, 2012, 184, 1207-1219.	2.7	62
5	High-density spore production of <i>Piriformospora indica</i> , a plant growth-promoting endophyte, by optimization of nutritional and cultural parameters. Bioresource Technology, 2011, 102, 3169-3175.	9.6	58
6	An overview of carcinogenic pollutants in groundwater of India. Biocatalysis and Agricultural Biotechnology, 2019, 21, 101288.	3.1	54
7	Assessment of heavy metals uptake by cauliflower ( <i>Brassica oleracea</i> var. botrytis) grown in integrated industrial effluent irrigated soils: A prediction modeling study. Scientia Horticulturae, 2019, 257, 108682.	3.6	52
8	Bioethanol production from sesame ( <i>Sesamum indicum</i> L.) plant residue by combined physical, microbial and chemical pretreatments. Bioresource Technology, 2020, 297, 122484.	9.6	52
9	Assessment of plant growth attributes, bioaccumulation, enrichment, and translocation of heavy metals in water lettuce ( <i>Pistia stratiotes</i> L.) grown in sugar mill effluent. International Journal of Phytoremediation, 2018, 20, 507-521.	3.1	43
10	Heavy metal uptake by water lettuce ( <i>Pistia stratiotes</i> L.) from paper mill effluent (PME): experimental and prediction modeling studies. Environmental Science and Pollution Research, 2019, 26, 14400-14413.	5.3	40
11	Phytoremediation of copper, iron and mercury from aqueous solution by water lettuce ( <i>Pistia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2019, 26, 14400-14413.	2.8	40
12	Upgrading of microalgal consortia with CO <sub>2</sub> from fermentation of wheat straw for the phycoremediation of domestic wastewater. Bioresource Technology, 2020, 305, 123063.	9.6	40
13	Understanding the impacts of the COVID-19 pandemic on sustainable agri-food system and agroecosystem decarbonization nexus: A review. Journal of Cleaner Production, 2021, 318, 128451.	9.3	40
14	Assessment of Heavy Metals in Spinach ( <i>Spinacia oleracea</i> L.) Grown in Sewage Sludge Amended Soil. Communications in Soil Science and Plant Analysis, 2016, 47, 221-236.	1.4	39
15	Optimization of PGPR and silicon fertilization using response surface methodology for enhanced growth, yield and biochemical parameters of French bean ( <i>Phaseolus vulgaris</i> L.) under saline stress. Biocatalysis and Agricultural Biotechnology, 2020, 23, 101463.	3.1	39
16	Phytoremediation potential of water caltrop ( <i>Trapa natans</i> L.) using municipal wastewater of the activated sludge process-based municipal wastewater treatment plant. Environmental Technology (United Kingdom), 2018, 39, 12-23.	2.2	36
17	Insights into hazardous solid waste generation during COVID-19 pandemic and sustainable management approaches for developing countries. Journal of Material Cycles and Waste Management, 2021, 23, 2077-2086.	3.0	36
18	Effects of sugarcane pressmud on agronomical characteristics of hybrid cultivar of eggplant ( <i>Solanum melongena</i> L.) under field conditions. International Journal of Recycling of Organic Waste in Agriculture, 2016, 5, 149-162.	2.0	35

#	ARTICLE	IF	CITATIONS
19	Treatment of pulp and paper mill effluent by a novel bacterium <i>Bacillus</i> sp. IITRDVM-5 through a sequential batch process. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101232.	3.1	34
20	Potential of water fern ( <i>Azolla pinnata</i> R.Br.) in phytoremediation of integrated industrial effluent of SIIDCUL, Haridwar, India: removal of physicochemical and heavy metal pollutants. <i>International Journal of Phytoremediation</i> , 2020, 22, 392-403.	3.1	31
21	Anaerobic digestion of <i>Azolla pinnata</i> biomass grown in integrated industrial effluent for enhanced biogas production and COD reduction: Optimization and kinetics studies. <i>Environmental Technology and Innovation</i> , 2020, 17, 100627.	6.1	30
22	Response surface methodology based electro-kinetic modeling of biological and chemical oxygen demand removal from sugar mill effluent by water hyacinth ( <i>Eichhornia crassipes</i> ) in a Continuous Stirred Tank Reactor (CSTR). <i>Environmental Technology and Innovation</i> , 2019, 14, 100327.	6.1	28
23	Monitoring of Physico-chemical and Microbiological Characteristics of Municipal Wastewater at Treatment Plant, Haridwar City (Uttarakhand) India. <i>Journal of Environmental Science and Technology</i> , 2012, 5, 109-118.	0.3	27
24	Biotransforming the Spent Substrate of Shiitake Mushroom ( <i>Lentinula edodes</i> Berk.): A Synergistic Approach to Biogas Production and Tomato ( <i>Solanum lycopersicum</i> L.) Fertilization. <i>Horticulturae</i> , 2022, 8, 479.	2.8	27
25	Monitoring the presence and persistence of SARS-CoV-2 in water-food-environmental compartments: State of the knowledge and research needs. <i>Environmental Research</i> , 2021, 200, 111373.	7.5	24
26	Sustainable Use of Sewage Sludge as a Casing Material for Button Mushroom ( <i>Agaricus bisporus</i> ) Cultivation: Experimental and Prediction Modeling Studies for Uptake of Metal Elements. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 112.	3.5	24
27	Spatial Assessment of Potentially Toxic Elements (PTE) Concentration in <i>Agaricus bisporus</i> Mushroom Collected from Local Vegetable Markets of Uttarakhand State, India. <i>Journal of Fungi</i> (Basel, Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.4	24
28	Agro-potentiality of distillery effluent on soil and agronomical characteristics of <i>Abelmoschus esculentus</i> L. (okra). <i>Environmental Monitoring and Assessment</i> , 2013, 185, 6635-6644.	2.7	23
29	Kinetic Studies on Delignification and Heavy Metals Uptake by Shiitake ( <i>Lentinula edodes</i> ) Mushroom Cultivated on Agro-Industrial Wastes. <i>Horticulturae</i> , 2022, 8, 316.	2.8	23
30	Experimental and kinetics study for phytoremediation of sugar mill effluent using water lettuce ( <i>Pistia stratiotes</i> L.) and its end use for biogas production. <i>3 Biotech</i> , 2017, 7, 330.	2.2	22
31	Experimental and Kinetics Studies for Biogas Production Using Water Hyacinth ( <i>Eichhornia crassipes</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.4	22
32	An experimental investigation on phytoremediation performance of water lettuce ( <i>Pistia</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T	2.7	21
33	Electrokinetic assisted anaerobic digestion of spent mushroom substrate supplemented with sugar mill wastewater for enhanced biogas production. <i>Renewable Energy</i> , 2021, 179, 418-426.	8.9	20
34	Integrated use of treated dairy wastewater and agro-residue for <i>Agaricus bisporus</i> mushroom cultivation: Experimental and kinetics studies. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 32, 101940.	3.1	19
35	Response of Sweet Sorghum After Fertigation with Sugar Mill Effluent in Two Seasons. <i>Sugar Tech</i> , 2013, 15, 285-299.	1.8	17
36	Reduction of pollution load of paper mill effluent by phytoremediation technique using water caltrop ( <i>Trapa natans</i> L.). <i>Cogent Environmental Science</i> , 2016, 2, 1153216.	1.6	17

#	ARTICLE	IF	CITATIONS
37	Sugar Mill Effluent Utilization in the Cultivation of Maize ( <i>Zea mays</i> L.) in Two Seasons. Journal of Waste Management, 2014, 2014, 1-12.	0.5	17
38	Influence of sugar mill effluent on physico-chemical characteristics of soil at Haridwar (Uttarakhand), India. Journal of Applied and Natural Science, 2010, 2, 269-279.	0.4	17
39	Use of sugar mill wastewater for <i>Agaricus bisporus</i> cultivation: prediction models for trace metal uptake and health risk assessment. Environmental Science and Pollution Research, 2021, 28, 26923-26934.	5.3	15
40	Effects of Paper Mill Effluent Irrigation on Agronomical Characteristics of <i>Vigna radiata</i> (L.) in Two Different Seasons. Communications in Soil Science and Plant Analysis, 2012, 43, 2142-2166.	1.4	14
41	Fertigation With Agro-residue-Based Paper Mill Effluent on a High-Yield Spinach Variety. International Journal of Vegetable Science, 2015, 21, 69-97.	1.3	14
42	Regression models for removal of heavy metals by water hyacinth ( <i>Eichhornia crassipes</i> ) from wastewater of pulp and paper processing industry. Environmental Sustainability, 2020, 3, 35-44.	2.8	14
43	Predicting heavy metals uptake by spinach ( <i>Spinacia oleracea</i> ) grown in integrated industrial wastewater irrigated soils of Haridwar, India. Environmental Monitoring and Assessment, 2020, 192, 709.	2.7	14
44	Ferti-irrigational impact of sugar mill effluent on agronomical characteristics of <i>Phaseolus vulgaris</i> (L.) in two seasons. Environmental Monitoring and Assessment, 2014, 186, 7877-7892.	2.7	13
45	Pearl millet ( <i>Pennisetum Glaucum</i> L.) response after ferti-irrigation with sugar mill effluent in two seasons. International Journal of Recycling of Organic Waste in Agriculture, 2014, 3, 1.	2.0	13
46	Irrigating okra with secondary treated municipal wastewater: Observations regarding plant growth and soil characteristics. International Journal of Phytoremediation, 2017, 19, 490-499.	3.1	12
47	Assessment of phytokinetic removal of pollutants of paper mill effluent using water hyacinth ( <i>Eichhornia crassipes</i> [Mart.] Solms). Environmental Technology (United Kingdom), 2018, 39, 2781-2791.	2.2	12
48	Ferti-irrigation Effect of Paper Mill Effluent on Agronomical Practices of <i>Phaseolus vulgaris</i> (L.) in Two Seasons. Communications in Soil Science and Plant Analysis, 2014, 45, 2151-2170.	1.4	11
49	Effect of sewage-water irrigation on physico-chemical parameters with special reference to heavy metals in agricultural soil of Haridwar city. Journal of Applied and Natural Science, 2011, 3, 108-113.	0.4	11
50	Heavy Metals Accumulation in Soil and Agricultural Crops Grown in the Province of Asahi India Glass Ltd., Haridwar (Uttarakhand), India. Advances in Crop Science and Technology, 2015, 04, .	0.4	10
51	Effects of treated sugar mill effluent and rice straw on substrate properties under milky mushroom ( <i>Calocybe indica</i> P&C) production: Nutrient utilization and growth kinetics studies. Environmental Technology and Innovation, 2020, 19, 101041.	6.1	10
52	Human health risk assessment of temporal and spatial variations of ground water quality at a densely industrialized commercial complex at Haridwar, India. Journal of Applied and Natural Science, 2014, 6, 825-843.	0.4	10
53	A safe haven of SARS-CoV-2 in the environment: Prevalence and potential transmission risks in the effluent, sludge, and biosolids. Geoscience Frontiers, 2022, 13, 101373.	8.4	9
54	Sustainable Upcycling of Mushroom Farm Wastewater through Cultivation of Two Water Ferns ( <i>Azolla</i> spp.) in Stagnant and Flowing Tank Reactors. Horticulturae, 2022, 8, 506.	2.8	9

#	ARTICLE	IF	CITATIONS
55	Response of French Bean to Fertigation With Wine From Molasses Distillery Effluent in Two Seasons. International Journal of Vegetable Science, 2014, 20, 104-123.	1.3	7
56	Microbial conversion of waste biomass into bioethanol: current challenges and future prospects. Biomass Conversion and Biorefinery, 2023, 13, 6419-6456.	4.6	7
57	Modeling of water hyacinth growth and its role in heavy metals accumulation from unoperated old Ganga canal at Haridwar, India. Rendiconti Lincei, 0, , 1.	2.2	7
58	Kinetics of nutrients remediation from sugar industry effluent-treated substrate using Agaricus bisporus: mushroom yield and biochemical potentials. 3 Biotech, 2021, 11, 164.	2.2	6
59	Ferti-irrigational Response of Hybrid Cultivar of Indian mustard (Brassica junceaL.) to Distillery Effluent in two Seasons. Analytical Chemistry Letters, 2014, 4, 190-206.	1.0	5
60	Modeling of mineral elements uptake and localization in cabbage inflorescence (Brassica oleracea var.) Tj ETQq0 0 0 rgBT /Overlock 10 T 2021, 193, 586.	2.7	5
61	Foliar use of TiO <sub>2</sub> -nanoparticles for okra (Abelmoschus esculentus L. Moench) cultivation on sewage sludge-amended soils: biochemical response and heavy metal accumulation. Environmental Science and Pollution Research, 2022, 29, 66507-66518.	5.3	5
62	AHP, fuzzy sets and TOPSIS based reliable route selection for MANET. , 2014, , .		4
63	Effects of Treated Sugar Mill Effluent Irrigation on Soil and Hybrid Cultivar of Eggplant (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 1.0	1.0	3
64	Ferti-irrigational Effect of Paper Mill Effluent on Agronomical Characteristics of Abelmoschus esculentus L. (Okra). Pakistan Journal of Biological Sciences, 2013, 16, 1426-1437.	0.5	3
65	Combined Use of Sewage Sludge and Plant Growth-Promoting Rhizobia Improves Germination, Biochemical Response and Yield of Ridge Gourd (Luffa acutangula (L.) Roxb.) under Field Conditions. Agriculture (Switzerland), 2022, 12, 173.	3.1	3
66	Amendment of Sugar Mill Wastewater Irrigation on Soil Biohydrological Properties and Yield of Vigna umguiculataL. Walp in Two Seasons. Communications in Soil Science and Plant Analysis, 2017, 48, 511-523.	1.4	2
67	Kinetic assessment of aerobic composting of flower waste generated from temple in Jammu, India: a lab-scale experimental study. Environmental Sustainability, 2021, 4, 393-400.	2.8	2
68	Microbial and lignocellulosic biomass based dye decolourization. Biomass Conversion and Biorefinery, 0, , 1.	4.6	2
69	Effect of supplementing biochar obtained from different wastes on biochemical and yield response of French bean (Phaseolus vulgaris L.): An experimental study. Biocatalysis and Agricultural Biotechnology, 2022, 43, 102432.	3.1	2