

Mohan Lal Dotaniya

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

1,184

citations

16

h-index

32

g-index

69

ext. papers

1,407

ext. citations

2

avg, IF

4.78

L-index

#	Paper	IF	Citations
68	A Case for Silicon Fertilization to Improve Crop Yields in Tropical Soils. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2014 , 84, 505-518	1.4	162
67	Use of sugarcane industrial by-products for improving sugarcane productivity and soil health. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2016 , 5, 185-194	3.1	117
66	Rhizosphere Effect on Nutrient Availability in Soil and Its Uptake by Plants: A Review. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2015 , 85, 1-12	1.4	95
65	Role of Biofertilizers in Conservation Agriculture 2016 , 113-134		78
64	Potassium Uptake by Crops as Well as Microorganisms 2016 , 267-280		76
63	Assessment of chromium efficacy on germination, root elongation, and coleoptile growth of wheat (<i>Triticum aestivum</i> L.) at different growth periods. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 2957-63	3.1	58
62	Geo-Accumulation Indices of Heavy Metals in Soil and Groundwater of Kanpur, India Under Long Term Irrigation of Tannery Effluent. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017 , 98, 706-711	2.7	49
61	Influence of Chromium Contamination on Carbon Mineralization and Enzymatic Activities in Vertisol. <i>Agricultural Research</i> , 2017 , 6, 91-96	1.4	42
60	Impact of pigeon pea biochar on cadmium mobility in soil and transfer rate to leafy vegetable spinach. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 31	3.1	36
59	Impact of Bagasse and Press Mud on Availability and Fixation Capacity of Phosphorus in an Inceptisol of North India. <i>Sugar Tech</i> , 2014 , 16, 109-112	1.9	30
58	Effect of Solution Phosphorus Concentration on the Exudation of Oxalate Ions by Wheat (<i>Triticum aestivum</i> L.). <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2013 , 83, 305-309	1.4	29
57	Production of Oxalic Acid as Influenced by the Application of Organic Residue and Its Effect on Phosphorus Uptake by Wheat (<i>Triticum aestivum</i> L.) in an Inceptisol of North India. <i>The National Academy of Sciences, India</i> , 2014 , 37, 401-405	0.6	29
56	Interactive effect of cadmium and zinc on chromium uptake in spinach grown in Vertisol of Central India. <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 441-448	3.3	27
55	Assessing Carbon and Nitrogen Partition in Kharif Crops for Their Carbon Sequestration Potential. <i>The National Academy of Sciences, India</i> , 2014 , 37, 213-217	0.6	26
54	Effect of chromium (VI) toxicity on morpho-physiological characteristics, yield, and yield components of two chickpea (<i>Cicer arietinum</i> L.) varieties. <i>PLoS ONE</i> , 2020 , 15, e0243032	3.7	20
53	Rhizosphere Effect of Kharif Crops on Phosphatases and Dehydrogenase Activities in a Typic Haplustert. <i>The National Academy of Sciences, India</i> , 2014 , 37, 103-106	0.6	18
52	Managing Soil Fertility Through Microbes: Prospects, Challenges and Future Strategies 2017 , 81-111		16

51	Soil Enzymatic Activities as Influenced by Lead and Nickel Concentrations in a Vertisol of Central India. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 101, 380-385	2.7	16
50	Impact of Long-Term Application of Sewage on Soil and Crop Quality in Vertisols of Central India. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 101, 779-786	2.7	16
49	Elevated Carbon Dioxide (CO ₂) and Temperature vis-a-vis Carbon Sequestration Potential of Global Terrestrial Ecosystem 2016 , 225-256		14
48	Bio-Sequestration of Carbon in Rice Phytoliths. <i>The National Academy of Sciences, India</i> , 2015 , 38, 129-133.6		12
47	Effect of Bio-Organics and Chemical Fertilizers on Growth and Yield of Chickpea (<i>Cicer arietinum</i> L.) Under Middle Gujarat Conditions. <i>Vegetos</i> , 2013 , 26, 183	1.2	12
46	Interactive Effects of Lead and Nickel Contamination on Nickel Mobility Dynamics in Spinach. <i>International Journal of Environmental Research</i> , 2018 , 12, 553-560	2.9	11
45	CO ₂ Sequestration and Transformation Potential of Agricultural System 2018 , 1-18		10
44	Impact of Lead Contamination on Agroecosystem and Human Health. <i>Radionuclides and Heavy Metals in Environment</i> , 2020 , 67-82	1	10
43	Lead Contamination and Its Dynamics in SoilPlant System. <i>Radionuclides and Heavy Metals in Environment</i> , 2020 , 83-98	1	10
42	Impacts of Soil Pollution and Their Assessment. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 37-73	0.8	9
41	Maturity indices as an index to evaluate the quality of sulphur enriched municipal solid waste compost using variable byproduct of sulphur. <i>Waste Management</i> , 2021 , 126, 180-190	8.6	9
40	Major Inorganic Pollutants Affecting Soil and Crop Quality. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 75-104	0.8	8
39	Conservation Agriculture: A New Paradigm for Improving Input Use Efficiency and Crop Productivity 2016 , 39-69		8
38	Impact of arsenic-polluted groundwater on soil and produce quality: a food chain study. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 785	3.1	8
37	Nitrification Inhibition Potential of <i>Brachiaria humidicola</i> . <i>The National Academy of Sciences, India</i> , 2014 , 37, 113-116	0.6	7
36	Sustainability of Popcorn-Potato Cropping System Improves Due to Organic Manure Application and Its Effect on Soil Health. <i>Potato Research</i> , 2019 , 62, 253-279	3.2	7
35	Soil microbial, chemical properties and crop productivity as affected by organic manure application in popcorn (<i>Zea mays</i> L. var. everta). <i>African Journal of Microbiology Research</i> , 2015 , 9, 1402-1408	0.5	6
34	Wastewater irrigation in India: Current status, impacts and response options. <i>Science of the Total Environment</i> , 2021 , 808, 152001	10.2	6

33	Microbial Assisted Phytoremediation for Heavy Metal Contaminated Soils 2018 , 295-317		6
32	Bioremediation of Metal Contaminated Soil for Sustainable Crop Production 2018 , 143-173		6
31	Agriculture, Soil and Environment. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 1-9	0.8	5
30	Chromium toxicity mediated by application of chloride and sulfate ions in Vertisol of Central India. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 429	3.1	5
29	Effect of Organic Sources of Nutrients on Tuber Bulking Rate, Grades and Specific Gravity of Potato Tubers. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2016 , 86, 47-53	1.4	5
28	Carbon and nitrogen mineralization in Vertisol as mediated by type and placement method of residue. <i>Environmental Monitoring and Assessment</i> , 2018 , 190, 439	3.1	5
27	Silicon (Si)- and Zinc (Zn)-Solubilizing Microorganisms: Role in Sustainable Agriculture. <i>Soil Biology</i> , 2019 , 109-135	1	5
26	Pigeon Pea Biochar as a Soil Amendment to Repress Copper Mobility in Soil and Its Uptake by Spinach. <i>BioResources</i> , 2015 , 11,	1.3	5
25	Impact of 12-year-long rice based organic farming on soil quality in terms of soil physical properties, available micronutrients and rice yield in a typic Ustochrept soil of India. <i>Communications in Soil Science and Plant Analysis</i> , 2020 , 51, 2331-2348	1.5	5
24	Reducing chromium uptake through application of calcium and sodium in spinach. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 754	3.1	5
23	Impact of phosphorus and iron on protein and chlorophyll content in chickpea (<i>Cicer arietinum</i> L.). <i>Legume Research</i> , 2015 , 38, 558	1	4
22	Environmental Impact Measurements: Tool and Techniques 2018 , 1-31		4
21	Sustainable C and N Management Under Metal-Contaminated Soils 2020 , 293-336		4
20	Can Lead and Nickel Interaction Affect Plant Nutrient Uptake Pattern in Spinach (<i>Spinacia oleracea</i>)?. <i>Agricultural Research</i> , 2020 , 9, 358-364	1.4	4
19	Organic Pollutants. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 105-135	0.8	3
18	Urban Activities in India Leading to Soil Pollution. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 193-228	0.8	3
17	Rainfall Variability: A Tool for Crop Planning of Udaipur Region of India. <i>The National Academy of Sciences, India</i> , 2015 , 38, 95-98	0.6	3
16	Assessment of Heavy Metals Contamination in Soil. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 155-191	0.8	2

15	Remediation and Management of Polluted Sites. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 317-372	0.8	2
14	Type of Soil Pollutant and Their Degradation: Methods and Challenges 2020 , 1-32		2
13	Carbon, Nitrogen and Phosphorus Mineralization as Influenced by Type of Organic Residues and Soil Contact Variation in Vertisol of Central India. <i>Agricultural Research</i> , 2020 , 9, 232-240	1.4	2
12	Silicon Potential to Mitigate Plant Heavy Metals Stress for Sustainable Agriculture: a Review. <i>Silicon</i> , 2021 , 1, 1-12	2.4	2
11	Nickel-mediated lead dynamics and their interactive effect on lead partitioning and phytoremediation indices in spinach.. <i>Environmental Monitoring and Assessment</i> , 2022 , 194, 334	3.1	2
10	Reuse of poor-quality water for sustainable crop production in the changing scenario of climate. <i>Environment, Development and Sustainability</i> , 2022 , 24, 1-12	4.5	2
9	Soil Protection Policy. <i>Environmental Chemistry for A Sustainable World</i> , 2017 , 373-386	0.8	1
8	Environmental Impact Measurements: Tool and Techniques 2019 , 33-62		1
7	Phytobionts of Wastewater and Restitution 2018 , 379-401		1
6	Environmental Impact Measurements: Tool and Techniques 2018 , 1-31		1
5	Can Addition of Organic Manures Mediated Sodicity Toxicity in Mustard Cultivation ?. <i>Communications in Soil Science and Plant Analysis</i> , 2019 , 50, 1-12	1.5	1
4	Performance of chickpea (<i>Cicer arietinum</i> L.) in maize-chickpea sequence under various integrated nutrient modules in a Vertisol of Central India.. <i>PLoS ONE</i> , 2022 , 17, e0262652	3.7	0
3	CO2 Sequestration and Transformation Potential of Agricultural System 2019 , 669-686		
2	Type of Soil Pollutant and Their Degradation: Methods and Challenges 2021 , 3103-3134		
1	A novel soil quality assessment method for sustainable soil management and enhancing crop productivity in tribal areas of central India. <i>Environment Conservation Journal</i> , 2021 , 22, 315-324	0.5	