Purushothaman Chirakkuzhyil Abhilash

List of Publications by Year
in descending order

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109	6,664	76196	64668
papers	citations	40 h-index	79 g-index

119	119	119	6835
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of tropical cyclone amphan affected inundation areas using sentinel-1 satellite data. Tropical Ecology, 2022, 63, 9-19.	0.6	7
2	Introducing â€˜Anthropocene Scienceâ€™: A New International Journal for Addressing Human Impact on the Resilience of Planet Earth. Anthropocene Science, 2022, 1, 1-4.	1.6	3
3	Natureâ€based solutions in soil restoration for improving agricultural productivity. Land Degradation and Development, 2022, 33, 1269-1289.	1.8	15
4	Carbon sequestration and harnessing biomaterials from terrestrial plantations for mitigating climate change impacts. , 2022, , 299-313.		1
5	Animal manures and plant residue-based amendments for sustainable rice-wheat production and soil fertility improvement in eastern Uttar Pradesh, North India. Ecological Engineering, 2022, 177, 106551.	1.6	8
6	Managing agroecosystems for food and nutrition security. Current Research in Environmental Sustainability, 2022, 4, 100127.	1.7	6
7	Emergy-based sustainability analysis of bioenergy production from marginal and degraded lands of India. Ecological Modelling, 2022, 466, 109903.	1.2	7
8	Advancing Global Biodiversity Governance: Recommendations for Strengthening the Post-2020 Global Biodiversity Framework. Anthropocene Science, 2022, 1, 195-203.	1.6	3
9	Ecosystem restoration in India during the United Nations decade on ecosystem restoration: the way forward. Restoration Ecology, 2022, 30, .	1.4	8
10	Formulation of Water Sustainability Index for India as a performance gauge for realizing the United Nations Sustainable Development Goal 6. Ambio, 2022, 51, 1569-1587.	2.8	7
11	Bioenergy crop production potential and carbon mitigation from marginal and degraded lands of India. Renewable Energy, 2022, 192, 300-312.	4.3	8
12	Rethinking of higher education institutions as complex adaptive systems for enabling sustainability governance. Journal of Cleaner Production, 2022, 359, 132083.	4.6	4
13	Saline Soil Reclamation Index as an efficient tool for assessing restoration progress of saline land. Land Degradation and Development, 2021, 32, 123-138.	1.8	23
14	Optimization of eco-friendly novel amendments for sustainable utilization of Fly ash based on growth performance, hormones, antioxidant, and heavy metal translocation in chickpea (Cicer arietinum L.) plant. Chemosphere, 2021, 267, 129216.	4.2	31
15	Steering the restoration of degraded agroecosystems during the United Nations Decade on Ecosystem Restoration. Journal of Environmental Management, 2021, 280, 111798.	3.8	34
16	Managing Soil Resources for Human Health and Environmental Sustainability. , 2021, , 3-11.		1
17	Planet friendly agriculture: Farming for people and the planet. Current Research in Environmental Sustainability, 2021, 3, 100041.	1.7	29
18	Restoring the Unrestored: Strategies for Restoring Global Land during the UN Decade on Ecosystem Restoration (UN-DER). Land, 2021, 10, 201.	1.2	72

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19	Impact of Integrated Agronomic Practices on Soil Fertility and Respiration on the Indo-Gangetic Plain of North India. Agronomy, 2021, 11, 402.	1.3	12
20	Agri-food systems in India: Concerns and policy recommendations for building resilience in post COVID-19 pandemic times. Global Food Security, 2021, 29, 100537.	4.0	35
21	Integrated nutrient management improves soil organic matter and agronomic sustainability of semiarid rainfed Inceptisols of the Indoâ€Gangetic Plains. Journal of Plant Nutrition and Soil Science, 2021, 184, 562-572.	1.1	7
22	Need of transdisciplinary research for accelerating land restoration during the UN Decade on Ecosystem Restoration. Restoration Ecology, 2021, 29, e13531.	1.4	30
23	Agriculture in aÂChanging Climate. SpringerBriefs in Environmental Science, 2020, , 1-10.	0.3	2
24	Adaptive Agricultural Practices. SpringerBriefs in Environmental Science, 2020, , .	0.3	18
25	Adaptive Agricultural Practices Employed in Eastern Uttar Pradesh, India. SpringerBriefs in Environmental Science, 2020, , 93-122.	0.3	1
26	Conclusion and Future Perspectives. SpringerBriefs in Environmental Science, 2020, , 71-75.	0.3	0
27	Unravelling the Soil Microbiome. SpringerBriefs in Environmental Science, 2020, , .	0.3	9
28	Adaptive Agronomic Practices for Sustaining Food Production. SpringerBriefs in Environmental Science, 2020, , 11-43.	0.3	5
29	Belowground Microbial Communities: Key Players for Soil and Environmental Sustainability. SpringerBriefs in Environmental Science, 2020, , 5-22.	0.3	10
30	Increasing Resilience in Crops for Future Changing Environment. SpringerBriefs in Environmental Science, 2020, , 45-61.	0.3	1
31	From piecemeal to holistic: Introducing sustainability science in Indian Universities to attain UN-Sustainable Development Goals. Journal of Cleaner Production, 2020, 247, 119133.	4.6	34
32	The Trilogy of Wild Crops, Traditional Agronomic Practices, and UN-Sustainable Development Goals. Agronomy, 2020, 10, 648.	1.3	11
33	Sustainability Analysis of Prosopis juliflora (Sw.) DC Based Restoration of Degraded Land in North India. Land, 2020, 9, 59.	1.2	38
34	Sustainable agronomic practices for enhancing the soil quality and yield of Cicer arietinum L. under diverse agroecosystems. Journal of Environmental Management, 2020, 262, 110284.	3.8	25
35	Circular economy practices within energy and waste management sectors of India: A meta-analysis. Bioresource Technology, 2020, 304, 123018.	4.8	115
36	Nanotechnology for soil remediation: Revitalizing the tarnished resource. , 2020, , 345-370.		20

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37	Exploring the â€˜Safe Operating Spaceâ€™ of India for the implementation of UN-Sustainable Development Goals through effectual policy alignment. Sustainability Science, 2020, 15, 1149-1168.	2.5	6
38	Fostering sustainable land restoration through circular economyâ€governed transitions. Restoration Ecology, 2020, 28, 719-723.	1.4	18
39	Low input sustainable agriculture: A viable climate-smart option for boosting food production in a warming world. Ecological Indicators, 2020, 115, 106412.	2.6	95
40	Resource Conserving and Innovative Practices for Agricultural Sustainability. SpringerBriefs in Environmental Science, 2020, , 63-92.	0.3	1
41	Climate Adaptive Agricultural Interventions for Food, Nutritional, Health and Livelihood Security. Disaster Resilience and Green Growth, 2020, , 267-288.	0.2	2
42	Policy recommendations for enabling transition towards sustainable agriculture in India. Land Use Policy, 2020, 96, 104718.	2.5	52
43	Policy Implications, Future Prospects and Conclusion. SpringerBriefs in Environmental Science, 2020, , 123-128.	0.3	0
44	Restoring HCHs polluted land as one of the priority activities during the UN-International Decade on Ecosystem Restoration (2021â€“2030): A call for global action. Science of the Total Environment, 2019, 689, 1304-1315.	3.9	23
45	Domesticating the Undomesticated for Global Food and Nutritional Security: Four Steps. Agronomy, 2019, 9, 491.	1.3	35
46	Promoting tribal communities and indigenous knowledge as potential solutions for the sustainable development of India. Environmental Development, 2019, 32, 100459.	1.8	20
47	Sustainable soil amendments for improving the soil quality, yield and nutrient content of Brassica juncea (L.) grown in different agroecological zones of eastern Uttar Pradesh, India. Soil and Tillage Research, 2019, 195, 104418.	2.6	29
48	Varietal dataset of nutritionally important Lablab purpureus (L.) Sweet from Eastern Uttar Pradesh, India. Data in Brief, 2019, 24, 103935.	0.5	13
49	Old leaves accumulate more heavy metals than other parts of the desert shrub Calotropis procera at a traffic-polluted site as assessed by two analytical techniques. International Journal of Phytoremediation, 2019, 21, 1254-1262.	1.7	10
50	Performance Analysis and Soil Quality Indexing for Dalbergia sissoo Roxb. Grown in Marginal and Degraded Land of Eastern Uttar Pradesh, India. Land, 2019, 8, 63.	1.2	13
51	Assessing the impacts of sewage sludge amendment containing nano-TiO2 on tomato plants: A life cycle study. Journal of Hazardous Materials, 2019, 369, 191-198.	6.5	41
52	Use of botanical insecticides for sustainable agriculture: Future perspectives. Ecological Indicators, 2019, 105, 483-495.	2.6	225
53	Sustainability science and research for attaining UN-SDGs. Journal of Cleaner Production, 2018, 184, 609-610.	4.6	4
54	Indian spinach: an underutilized perennial leafy vegetable for nutritional security in developing world. Energy, Ecology and Environment, 2018, 3, 195-205.	1.9	22

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55	Food for Thought:Putting Wild Edibles Back on The Table for Combating Hidden Hunger in Developing Countries. Current Science, 2018, 115, 611.	0.4	14
56	Biotechnological Advances for Restoring Degraded Land for Sustainable Development. Trends in Biotechnology, 2017, 35, 847-859.	4.9	80
57	Biogenic silver nanoparticles based on trichoderma harzianum: synthesis, characterization, toxicity evaluation and biological activity. Scientific Reports, 2017, 7, 44421.	1.6	135
58	Integrated Approach of Agri-nanotechnology: Challenges and Future Trends. Frontiers in Plant Science, 2017, 8, 471.	1.7	164
59	Agriculturally Important Microbes in Sustainable Food Production. Trends in Biotechnology, 2016, 34, 773-775.	4.9	57
60	Bioremediation for Fueling the Biobased Economy. Trends in Biotechnology, 2016, 34, 775-777.	4.9	15
61	Nanoparticles Based on Chitosan as Carriers for the Combined Herbicides Imazapic and Imazapyr. Scientific Reports, 2016, 6, 19768.	1.6	140
62	Plant Growth-Promoting Microorganisms for Environmental Sustainability. Trends in Biotechnology, 2016, 34, 847-850.	4.9	125
63	Exploring rhizospheric interactions for agricultural sustainability: the need of integrative research on multi-trophic interactions. Journal of Cleaner Production, 2016, 115, 362-365.	4.6	63
64	Nanotechnology Applied to Bio-Encapsulation of Pesticides. Journal of Nanoscience and Nanotechnology, 2016, 16, 1231-1234.	0.9	131
65	Agriculture in a changing climate. Journal of Cleaner Production, 2016, 113, 1046-1047.	4.6	31
66	Sustainability of crop production from polluted lands. Energy, Ecology and Environment, 2016, 1, 54-65.	1.9	104
67	Towards the coupling of phytoremediation with bioenergy production. Renewable and Sustainable Energy Reviews, 2016, 57, 1386-1389.	8.2	92
68	Exploring marginal and degraded lands for biomass and bioenergy production: An Indian scenario. Renewable and Sustainable Energy Reviews, 2016, 54, 1537-1551.	8.2	138
69	Polymeric and Solid Lipid Nanoparticles for Sustained Release of Carbendazim and Tebuconazole in Agricultural Applications. Scientific Reports, 2015, 5, 13809.	1.6	141
70	Sustainable clean-up technologies for soils contaminated with multiple pollutants: Plant-microbe-pollutant and climate nexus. Ecological Engineering, 2015, 82, 330-335.	1.6	72
71	Coping with changes: adaptation of trees in a changing environment. Trends in Plant Science, 2015, 20, 137-138.	4.3	21
72	Root system engineering: prospects and promises. Trends in Plant Science, 2015, 20, 408-409.	4.3	8

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73	Effect of temperature variation on lindane dissipation and microbial activity in soil. Ecological Engineering, 2015, 79, 54-59.	1.6	22
74	Jatropha curcas L.: A crucified plant waiting for resurgence. Renewable and Sustainable Energy Reviews, 2015, 41, 855-862.	8.2	97
75	Application of nanotechnology for the encapsulation of botanical insecticides for sustainable agriculture: Prospects and promises. Biotechnology Advances, 2014, 32, 1550-1561.	6.0	364
76	Is Vigna radiata (L.) R. Wilczek a suitable crop for Lindane contaminated soil?. Ecological Engineering, 2014, 73, 219-223.	1.6	10
77	Phytoextraction and dissipation of lindane by Spinacia oleracea L.. Ecotoxicology and Environmental Safety, 2014, 109, 22-26.	2.9	33
78	Towards the ecological profiling of a pesticide contaminated soil site for remediation and management. Ecological Engineering, 2014, 71, 318-325.	1.6	23
79	Remediation and management of POPs-contaminated soils in a warming climate: challenges and perspectives. Environmental Science and Pollution Research, 2013, 20, 5879-5885.	2.7	66
80	Influence of inoculation of arsenic-resistant Staphylococcus arlettae on growth and arsenic uptake in Brassica juncea (L.) Czern. Var. R-46. Journal of Hazardous Materials, 2013, 262, 1039-1047.	6.5	142
81	Remediation of lindane by Jatropha curcas L: Utilization of multipurpose species for rhizoremediation. Biomass and Bioenergy, 2013, 51, 189-193.	2.9	64
82	Solid waste management of temple floral offerings by vermicomposting using Eisenia fetida. Waste Management, 2013, 33, 1113-1118.	3.7	49
83	Plantâ€“microbe interactions: novel applications for exploitation in multipurpose remediation technologies. Trends in Biotechnology, 2012, 30, 416-420.	4.9	242
84	Structure prediction and binding sites analysis of curcin protein of Jatropha curcas using computational approaches. Journal of Molecular Modeling, 2012, 18, 2971-2979.	0.8	30
85	Genetically engineered bacteria: An emerging tool for environmental remediation and future research perspectives. Gene, 2011, 480, 1-9.	1.0	239
86	Remediation of Lindane Using Engineered Nanoparticles. Journal of Biomedical Nanotechnology, 2011, 7, 172-174.	0.5	20
87	Influence of rhizospheric microbial inoculation and tolerant plant species on the rhizoremediation of lindane. Environmental and Experimental Botany, 2011, 74, 127-130.	2.0	38
88	Comparative bioremediation potential of four rhizospheric microbial species against lindane. Chemosphere, 2011, 82, 56-63.	4.2	51
89	Revisited Jatropha curcas as an oil plant of multiple benefits: critical research needs and prospects for the future. Environmental Science and Pollution Research, 2011, 18, 127-131.	2.7	49
90	Hexachlorocyclohexane (HCH) as new Stockholm Convention POPsâ€”a global perspective on the management of Lindane and its waste isomers. Environmental Science and Pollution Research, 2011, 18, 152-162.	2.7	359

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91	Can we use biomass produced from phytoremediation?. Biomass and Bioenergy, 2011, 35, 1371-1372.	2.9	60
92	Withania somnifera Dunal-mediated dissipation of lindane from simulated soil: implications for rhizoremediation of contaminated soil. Journal of Soils and Sediments, 2010, 10, 272-282.	1.5	50
93	Effect of GrowingSesamum IndicumL. on Enhanced Dissipation of Lindane (1, 2, 3, 4, 5,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	25
94	Transgenic plants for enhanced biodegradation and phytoremediation of organic xenobiotics. Biotechnology Advances, 2009, 27, 474-488.	6.0	309
95	The Indian perspective of utilizing fly ash in phytoremediation, phytomanagement and biomass production. Journal of Environmental Management, 2009, 90, 2943-2958.	3.8	148
96	Jatropha curcas: A potential crop for phytoremediation of coal fly ash. Journal of Hazardous Materials, 2009, 172, 269-275.	6.5	141
97	Seasonal variation of HCH isomers in open soil and plant-rhizospheric soil system of a contaminated environment. Environmental Science and Pollution Research, 2009, 16, 727-740.	2.7	29
98	Simplified determination of combined residues of lindane and other HCH isomers in vegetables, fruits, wheat, pulses and medicinal plants by matrix solid-phase dispersion (MSPD) followed by GCâ€“ECD. Food Chemistry, 2009, 113, 267-271.	4.2	44
99	Pesticide use and application: An Indian scenario. Journal of Hazardous Materials, 2009, 165, 1-12.	6.5	661
100	Application of fly ash on the growth performance and translocation of toxic heavy metals within Cajanus cajan L.: Implication for safe utilization of fly ash for agricultural production. Journal of Hazardous Materials, 2009, 166, 255-259.	6.5	111
101	Phytofiltration of cadmium from water by Limnocharis flava (L.) Buchenau grown in free-floating culture system. Journal of Hazardous Materials, 2009, 170, 791-797.	6.5	79
102	Fly ash trapping and metal accumulating capacity of plants: Implication for green belt around thermal power plants. Landscape and Urban Planning, 2009, 92, 136-147.	3.4	40
103	Multiple Residue Extraction for Organochlorine Pesticides in Medicinal Plants. Bulletin of Environmental Contamination and Toxicology, 2008, 81, 604-607.	1.3	18
104	Influence of the application of sugarcane bagasse on lindane (Î³-HCH) mobility through soil column: Implication for biotreatment. Bioresource Technology, 2008, 99, 8961-8966.	4.8	36
105	Occurrence and distribution of hexachlorocyclohexane isomers in vegetation samples from a contaminated area. Chemosphere, 2008, 72, 79-86.	4.2	52
106	Distribution of hexachlorocyclohexane isomers in soil samples from a small scale industrial area of Lucknow, North India, associated with lindane production. Chemosphere, 2008, 73, 1011-1015.	4.2	39
107	Matrix solid-phase dispersion extraction versus solid-phase extraction in the analysis of combined residues of hexachlorocyclohexane isomers in plant matrices. Journal of Chromatography A, 2007, 1176, 43-47.	1.8	62
108	Land and Water Conservation Technologies for Building Carbon Positive Villages in India. Land Degradation and Development, 0, , .	1.8	3

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109	The Dasgupta Review: resetting the stage for a new paradigm. Frontiers in Ecology and the Environment, 0, , .	1.9	4