

Vimal Chandra Pandey

List of Publications by Citations

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Version: 2024-04-26

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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.

106
papers

3,429
citations

30
h-index

58
g-index

111
ext. papers

3,818
ext. citations

5
avg, IF

6.2
L-index

#	Paper	IF	Citations
106	Efficient soil microorganisms: A new dimension for sustainable agriculture and environmental development. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 140, 339-353	5.7	448
105	Impact of fly ash incorporation in soil systems. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 136, 16-27	5.7	304
104	Jatropha curcas: A potential biofuel plant for sustainable environmental development. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2870-2883	16.2	244
103	Energy crops in sustainable phytoremediation. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 58-73	16.2	187
102	Arsenic hazards in coal fly ash and its fate in Indian scenario. <i>Resources, Conservation and Recycling</i> , 2011 , 55, 819-835	11.9	157
101	The Indian perspective of utilizing fly ash in phytoremediation, phytomanagement and biomass production. <i>Journal of Environmental Management</i> , 2009 , 90, 2943-58	7.9	132
100	Phytoremediation of heavy metals from fly ash pond by <i>Azolla caroliniana</i> . <i>Ecotoxicology and Environmental Safety</i> , 2012 , 82, 8-12	7	114
99	Suitability of <i>Ricinus communis</i> L. cultivation for phytoremediation of fly ash disposal sites. <i>Ecological Engineering</i> , 2013 , 57, 336-341	3.9	110
98	Sustainable phytoremediation based on naturally colonizing and economically valuable plants. <i>Journal of Cleaner Production</i> , 2015 , 86, 37-39	10.3	108
97	Application of fly ash on the growth performance and translocation of toxic heavy metals within <i>Cajanus cajan</i> L.: implication for safe utilization of fly ash for agricultural production. <i>Journal of Hazardous Materials</i> , 2009 , 166, 255-9	12.8	93
96	Naturally growing <i>Saccharum munja</i> L. on the fly ash lagoons: A potential ecological engineer for the revegetation and stabilization. <i>Ecological Engineering</i> , 2012 , 40, 95-99	3.9	88
95	Invasive species based efficient green technology for phytoremediation of fly ash deposits. <i>Journal of Geochemical Exploration</i> , 2012 , 123, 13-18	3.8	78
94	Phytodiversity on fly ash deposits: evaluation of naturally colonized species for sustainable phytorestoration. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 2776-87	5.1	71
93	Aromatic grasses for phytomanagement of coal fly ash hazards. <i>Ecological Engineering</i> , 2014 , 73, 425-428	3.9	69
92	Accumulation of Heavy Metals by Chickpea Grown in Fly Ash Treated Soil: Effect on Antioxidants. <i>Clean - Soil, Air, Water</i> , 2010 , 38, 1116-1123	1.6	68
91	Ecological restoration of degraded sodic lands through afforestation and cropping. <i>Ecological Engineering</i> , 2012 , 43, 70-80	3.9	64
90	Assisted phytoremediation of fly ash dumps through naturally colonized plants. <i>Ecological Engineering</i> , 2015 , 82, 1-5	3.9	61

89	Phytofiltration of cadmium from water by <i>Limnocharis flava</i> (L.) Buchenau grown in free-floating culture system. <i>Journal of Hazardous Materials</i> , 2009 , 170, 791-7	12.8	60
88	Fly ash application in nutrient poor agriculture soils: impact on methanotrophs population dynamics and paddy yields. <i>Ecotoxicology and Environmental Safety</i> , 2013 , 89, 43-51	7	59
87	Rhizoremediation potential of spontaneously grown <i>Typha latifolia</i> on fly ash basins: Study from the field. <i>Ecological Engineering</i> , 2014 , 71, 722-727	3.9	53
86	<i>Saccharum spontaneum</i> : an underutilized tall grass for revegetation and restoration programs. <i>Genetic Resources and Crop Evolution</i> , 2015 , 62, 443-450	2	53
85	Coal fly ash and farmyard manure amendments in dry-land paddy agriculture field: Effect on N-dynamics and paddy productivity. <i>Applied Soil Ecology</i> , 2011 , 47, 133-140	5	53
84	Methanotrophs: promising bacteria for environmental remediation. <i>International Journal of Environmental Science and Technology</i> , 2014 , 11, 241-250	3.3	48
83	Feasibility of fern <i>Thelypteris dentata</i> for revegetation of coal fly ash landfills. <i>Journal of Geochemical Exploration</i> , 2013 , 128, 147-152	3.8	47
82	<i>Cynodon dactylon</i> : An efficient perennial grass to revegetate sodic lands. <i>Ecological Engineering</i> , 2013 , 54, 32-38	3.9	39
81	Is <i>Vigna radiata</i> suitable for the revegetation of fly ash landfills?. <i>Ecological Engineering</i> , 2011 , 37, 2105-2106	3.9	39
80	Influence of pyrite and farmyard manure on population dynamics of soil methanotroph and rice yield in saline rain-fed paddy field. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 139, 74-79	5.7	39
79	Aromatic plants versus arsenic hazards in soils. <i>Journal of Geochemical Exploration</i> , 2015 , 157, 77-80	3.8	37
78	<i>Leucaena leucocephala</i> : an underutilized plant for pulp and paper production. <i>Genetic Resources and Crop Evolution</i> , 2013 , 60, 1165-1171	2	35
77	Fast green capping on coal fly ash basins through ecological engineering. <i>Ecological Engineering</i> , 2014 , 73, 671-675	3.9	30
76	New Approaches to Enhance Eco-Restoration Efficiency of Degraded Sodic Lands: Critical Research Needs and Future Prospects. <i>Ecological Restoration</i> , 2011 , 29, 322-325		30
75	Plant regeneration potential in fly ash ecosystem. <i>Urban Forestry and Urban Greening</i> , 2016 , 15, 40-44	5.4	25
74	Phytoremediation efficiency of <i>Eichhornia crassipes</i> in fly ash pond. <i>International Journal of Phytoremediation</i> , 2016 , 18, 450-2	3.9	25
73	Assessment of <i>Ziziphus mauritiana</i> grown on fly ash dumps: Prospects for phytoremediation but concerns with the use of edible fruit. <i>International Journal of Phytoremediation</i> , 2018 , 20, 1250-1256	3.9	19
72	Carbon sequestration in fly ash dumps: Comparative assessment of three plant association. <i>Ecological Engineering</i> , 2016 , 95, 198-205	3.9	18

71	Traditional uses of medicinal plants for dermatological healthcare management practices by the Tharu tribal community of Uttar Pradesh, India. <i>Genetic Resources and Crop Evolution</i> , 2013 , 60, 203-224	2	18
70	EFFECT OF FLY ASH ON CROP YIELD AND PHYSICO-CHEMICAL, MICROBIAL AND ENZYME ACTIVITIES OF SODIC SOILS. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 2433-2440	0.6	17
69	Phytoremediation 2019 , 1-49		16
68	Market Opportunities: in Sustainable Phytoremediation 2019 , 51-82		13
67	Exploring the Potential and Opportunities of Current Tools for Removal of Hazardous Materials From Environments 2019 , 501-516		13
66	Phytoremediation of Red Mud Deposits Through Natural Succession 2019 , 409-424		12
65	Pteridophytes in phytoremediation. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 2399-2411	4.7	11
64	Metal remediation potential of naturally occurring plants growing on barren fly ash dumps. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 1415-1426	4.7	11
63	Restoration of mine degraded land for sustainable environmental development. <i>Restoration Ecology</i> , 2021 , 29, e13268	3.1	11
62	Aromatic Crops in Phytoremediation 2019 , 255-275		9
61	Assessment of phytoremediation potential of native grass species growing on red mud deposits. <i>Journal of Geochemical Exploration</i> , 2017 , 182, 206-209	3.8	8
60	Physiological profiling of invasive plant species for ecological restoration of fly ash deposits. <i>Urban Forestry and Urban Greening</i> , 2020 , 54, 126773	5.4	8
59	Phytoremediation ability of naturally growing plant species on the electroplating wastewater-contaminated site. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 4101-4111	4.7	8
58	Documentation and determination of consensus about phytotherapeutic veterinary practices among the Tharu tribal community of Uttar Pradesh, India. <i>Tropical Animal Health and Production</i> , 2012 , 44, 863-72	1.7	8
57	Arsenic accumulation in Canna: Effect on antioxidative defense system. <i>Applied Geochemistry</i> , 2019 , 108, 104360	3.5	7
56	The importance of <i>Butea monosperma</i> for the restoration of degraded lands. <i>Ecological Engineering</i> , 2016 , 97, 619-623	3.9	7
55	Ecological restoration of coal fly ash-dumped area through bamboo plantation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 33416	5.1	7
54	Fly ash properties, multiple uses, threats, and management: an introduction 2020 , 1-34		6

53	Screening and Optimization of Zinc Removal Potential in <i>Pseudomonas aeruginosa</i> -HMR1 and its Plant Growth-Promoting Attributes. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021 , 1	2.7	6
52	Managing Waste Dumpsites Through Energy Plantations 2017 , 371-386		5
51	Scope of fly ash use in agriculture: prospects and challenges 2020 , 63-101		5
50	Direct seeding offers affordable restoration for fly ash deposits. <i>Energy, Ecology and Environment</i> , 1	3.5	5
49	Potential and safe utilization of Fly ash as fertilizer for <i>Pisum sativum</i> L. Grown in phytoremediated and non-phytoremediated amendments. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 50153-50166	5.1	5
48	Impact of pH on Pollutational Parameters of Textile Industry Wastewater with Use of <i>Chlorella pyrenoidosa</i> at Lab-Scale: A Green Approach. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021 , 1	2.7	4
47	Rhizoremediation of Polluted Sites 2019 , 389-407		4
46	Opportunities and challenges in fly ash amended paddy agriculture 2020 , 103-139		3
45	Sustainable Phytoremediation Strategies for River Water Rejuvenation 2019 , 301-311		3
44	Seedling growth and physicochemical transformations of rice nursery soil under varying levels of coal fly ash and vermicompost amendment. <i>Environmental Geochemistry and Health</i> , 2021 , 1	4.7	3
43	Ecological restoration of fly-ash disposal areas: Challenges and Opportunities. <i>Land Degradation and Development</i> , 2021 , 32, 4453	4.4	3
42	Understanding the Role of Litter Decomposition in Restoration of Fly Ash Ecosystem. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020 , 1	2.7	2
41	Phytoremediation: holistic approach for remediation of heavy metals and metalloids 2020 , 3-16		2
40	Fly ash application in reclamation of degraded land: opportunities and challenges 2020 , 167-193		2
39	Plant diversity and ecological potential of naturally colonizing vegetation for ecorestoration of fly ash disposal area. <i>Ecological Engineering</i> , 2022 , 176, 106533	3.9	2
38	Moso bamboo (<i>Phyllostachys edulis</i> (Carr.) J.Houz.) one of the most valuable bamboo species for phytoremediation 2020 , 245-258		2
37	Bioremediation of fly ash dumpsites: holistic approach 2020 , 35-62		2
36	Afforestation on fly ash catena: an adaptive fly ash management 2020 , 195-234		2

35	Butea monosperma: a leguminous species for sustainable forestry programmes. <i>Environment, Development and Sustainability</i> , 2021 , 23, 8492-8505	4.5	2
34	Microbial responses to fly ash amended soil 2020 , 141-165		1
33	Case studies of perennial grasses for phytoremediation (holistic approach) 2020 , 337-347		1
32	An appraisal on phytomanagement of fly ash with economic returns 2020 , 289-321		1
31	Endophytes: The hidden world for agriculture, ecosystem, and environmental sustainability 2020 , 145-159		1
30	Vetiveria zizanioides (L.) Nash: More than a promising crop in phytoremediation 2020 , 31-62		1
29	Miscanthus: A perennial energy grass in phytoremediation 2020 , 79-95		1
28	Switchgrass: An asset for phytoremediation and bioenergy production 2020 , 179-193		1
27	Saccharum spp.: Potential role in ecorestoration and biomass production 2020 , 211-226		1
26	Bermuda grass: Its role in ecological restoration and biomass production 2020 , 227-244		1
25	Phragmites species: Promising perennial grasses for phytoremediation and biofuel production 2020 , 97-114		1
24	Reed canary grass (Phalaris arundinacea L.): coupling phytoremediation with biofuel production 2020 , 165-177		1
23	Understanding assisted phytoremediation: Potential tools to enhance plant performance 2022 , 1-24		1
22	Potential of Napier grass (Pennisetum purpureum Schumach.) for phytoremediation and biofuel production 2020 , 283-302		0
21	Biochar-based land development. <i>Land Degradation and Development</i> ,	4.4	0
20	Role of microbes in grass-based phytoremediation 2020 , 303-336		0
19	CRISPR-assisted strategies for futuristic phytoremediation 2022 , 203-220		0
18	Adaptive phytoremediation practices for sustaining ecosystem services 2022 , 181-225		0

- 17 Cymbopogon flexuosus—an essential oil-bearing aromatic grass for phytoremediation **2020**, 195-209
- 16 Fly ash deposits—an potential sink for carbon sequestration **2020**, 235-255
- 15 Fly ash ecosystem services **2020**, 257-288
- 14 Perennial grasses in phytoremediation—challenges and opportunities **2020**, 1-29
- 13 The potential of Sewan grass (*Lasiurus indicus* Henrard) in phytoremediation—an endangered grass species of desert **2020**, 63-78
- 12 Soil and phytomanagement for adaptive phytoremediation practices **2022**, 135-179
- 11 Structural and functional characteristics of resilient plants for adaptive phytoremediation practices **2022**, 77-134
- 10 Designer plants for climate-resilient phytoremediation **2022**, 227-274
- 9 Policy implications and future prospects for adaptive phytoremediation practices **2022**, 319-341
- 8 Making biomass from phytoremediation fruitful: Future goal of phytoremediation **2022**, 275-317
- 7 Phytoremediation in a changing climate **2022**, 1-23
- 6 Effect of fly ash and vermicompost amendment on rhizospheric earthworm and nematode count and change in soil carbon pool of rice nursery.. *Environmental Science and Pollution Research*, **2022**, 1 5.1
- 5 Grass fiber crops in phytoremediation **2022**, 57-87
- 4 Phytoremediation: Progress, potential, and prospects **2022**, 1-27
- 3 Multipurpose uses of fiber crops—Societal, economic, and environmental development **2022**, 181-229
- 2 Woody fiber crops in phytoremediation **2022**, 89-113
- 1 Sustainability of fiber crop production from polluted land **2022**, 115-156