Vimal Chandra Pandey

List of Publications by Year in Descending Order

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	Plant diversity and ecological potential of naturally colonizing vegetation for ecorestoration of fly ash disposal area. *Ecological Engineering*, **2022**, 176, 106533	3.9	2
105	Understanding assisted phytoremediation: Potential tools to enhance plant performance **2022**, 1-24		1
104	CRISPR-assisted strategies for futuristic phytoremediation **2022**, 203-220		0
103	Soil and phytomanagement for adaptive phytoremediation practices **2022**, 135-179		
102	Structural and functional characteristics of resilient plants for adaptive phytoremediation practices **2022**, 77-134		
101	Adaptive phytoremediation practices for sustaining ecosystem services **2022**, 181-225		0
100	Designer plants for climate-resilient phytoremediation **2022**, 227-274		
99	Policy implications and future prospects for adaptive phytoremediation practices **2022**, 319-341		
98	Making biomass from phytoremediation fruitful: Future goal of phytoremediation **2022**, 275-317		
97	Phytoremediation in a changing climate **2022**, 1-23		
96	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	
95	Grass fiber crops in phytoremediation **2022**, 57-87		
94	Phytoremediation: Progress, potential, and prospects **2022**, 1-27		
93	Multipurpose uses of fiber crops□ocietal, economic, and environmental development **2022**, 181-229		
92	Woody fiber crops in phytoremediation **2022**, 89-113		
91	Sustainability of fiber crop production from polluted land **2022**, 115-156		
90	Screening and Optimization of Zinc Removal Potential in Pseudomonas aeruginosa-HMR1 and its Plant Growth-Promoting Attributes. *Bulletin of Environmental Contamination and Toxicology*, **2021**, 1	2.7	6

89	Potential and safe utilization of Fly ash as fertilizer for Pisum sativum L. Grown in phytoremediated and non-phytoremediated amendments. *Environmental Science and Pollution Research*, **2021**, 28, 50153-50166	5.1	5
88	Impact of pH on Pollutional Parameters of Textile Industry Wastewater with Use of Chlorella pyrenoidosa at Lab-Scale: A Green Approach. *Bulletin of Environmental Contamination and Toxicology*, **2021**, 1	2.7	4
87	Metal remediation potential of naturally occurring plants growing on barren fly ash dumps. *Environmental Geochemistry and Health*, **2021**, 43, 1415-1426	4.7	11
86	Butea monosperma: a leguminous species for sustainable forestry programmes. *Environment, Development and Sustainability*, **2021**, 23, 8492-8505	4.5	2
85	Restoration of mine degraded land for sustainable environmental development. *Restoration Ecology*, **2021**, 29, e13268	3.1	11
84	Ecological restoration of coal fly ash-dumped area through bamboo plantation. *Environmental Science and Pollution Research*, **2021**, 28, 33416	5.1	7
83	Seedling growth and physicochemical transformations of rice nursery soil under varying levels of coal fly ash and vermicompost amendment. *Environmental Geochemistry and Health*, **2021**, 1	4.7	3
82	Ecological restoration of fly-ash disposal areas: Challenges and opportunities. *Land Degradation and Development*, **2021**, 32, 4453	4.4	3
81	Understanding the Role of Litter Decomposition in Restoration of Fly Ash Ecosystem. *Bulletin of Environmental Contamination and Toxicology*, **2020**, 1	2.7	2
80	Phytoremediation holistic approach for remediation of heavy metals and metalloids **2020**, 3-16		2
79	Physiological profiling of invasive plant species for ecological restoration of fly ash deposits. *Urban Forestry and Urban Greening*, **2020**, 54, 126773	5.4	8
78	Phytoremediation ability of naturally growing plant species on the electroplating wastewater-contaminated site. *Environmental Geochemistry and Health*, **2020**, 42, 4101-4111	4.7	8
77	Microbial responses to fly ash ided soil **2020**, 141-165		1
76	Potential of Napier grass (Pennisetum purpureum Schumach.) for phytoremediation and biofuel production **2020**, 283-302		0
75	Cymbopogon flexuosus n essential oil-bearing aromatic grass for phytoremediation **2020**, 195-209		
74	Fly ash application in reclamation of degraded land: opportunities and challenges **2020**, 167-193		2
73	Fly ash deposits potential sink for carbon sequestration **2020**, 235-255		
72	Fly ash ecosystem services **2020**, 257-288		

71	Moso bamboo (Phyllostachys edulis (Carrière) J.Houz.)—one of the most valuable bamboo species for phytoremediation **2020**, 245-258		2
70	Case studies of perennial grasses—phytoremediation (holistic approach) **2020**, 337-347		1
69	Fly ash properties, multiple uses, threats, and management: an introduction **2020**, 1-34		6
68	Bioremediation of fly ash dumpsites—holistic approach **2020**, 35-62		2
67	Scope of fly ash use in agriculture: prospects and challenges **2020**, 63-101		5
66	Opportunities and challenges in fly ash—aided paddy agriculture **2020**, 103-139		3
65	Afforestation on fly ash catena: an adaptive fly ash management **2020**, 195-234		2
64	An appraisal on phytomanagement of fly ash with economic returns **2020**, 289-321		1
63	Endophytes—the hidden world for agriculture, ecosystem, and environmental sustainability **2020**, 145-159		1
62	Pteridophytes in phytoremediation. *Environmental Geochemistry and Health*, **2020**, 42, 2399-2411	4.7	11
61	Vetiveria zizanioides (L.) Nash —more than a promising crop in phytoremediation **2020**, 31-62		1
60	Miscanthus—a perennial energy grass in phytoremediation **2020**, 79-95		1
59	Switchgrass—an asset for phytoremediation and bioenergy production **2020**, 179-193		1
58	Saccharum spp.—potential role in ecorestoration and biomass production **2020**, 211-226		1
57	Bermuda grass —its role in ecological restoration and biomass production **2020**, 227-244		1
56	Perennial grasses in phytoremediation—challenges and opportunities **2020**, 1-29		
55	The potential of Sewan grass (Lasiurus sindicus Henrard) in phytoremediation—an endangered grass species of desert **2020**, 63-78		
54	Phragmites species—promising perennial grasses for phytoremediation and biofuel production **2020**, 97-114		1

53	Reed canary grass (Phalaris arundinacea L.): coupling phytoremediation with biofuel production **2020**, 165-177		1
52	Role of microbes in grass-based phytoremediation **2020**, 303-336		0
51	Arsenic accumulation in Canna: Effect on antioxidative defense system. *Applied Geochemistry*, **2019**, 108, 104360	3.5	7
50	Rhizoremediation of Polluted Sites **2019**, 389-407		4
49	Aromatic Crops in Phytoremediation **2019**, 255-275		9
48	Sustainable Phytoremediation Strategies for River Water Rejuvenation **2019**, 301-311		3
47	Phytoremediation **2019**, 1-49		16
46	Market Opportunities: in Sustainable Phytoremediation **2019**, 51-82		13
45	Phytoremediation of Red Mud Deposits Through Natural Succession **2019**, 409-424		12
44	Exploring the Potential and Opportunities of Current Tools for Removal of Hazardous Materials From Environments **2019**, 501-516		13
43	Assessment of Ziziphus mauritiana grown on fly ash dumps: Prospects for phytoremediation but concerns with the use of edible fruit. *International Journal of Phytoremediation*, **2018**, 20, 1250-1256	3.9	19
42	Assessment of phytoremediation potential of native grass species growing on red mud deposits. *Journal of Geochemical Exploration*, **2017**, 182, 206-209	3.8	8
41	Managing Waste Dumpsites Through Energy Plantations **2017**, 371-386		5
40	Carbon sequestration in fly ash dumps: Comparative assessment of three plant association. *Ecological Engineering*, **2016**, 95, 198-205	3.9	18
39	The importance of Butea monosperma for the restoration of degraded lands. *Ecological Engineering*, **2016**, 97, 619-623	3.9	7
38	Plant regeneration potential in fly ash ecosystem. *Urban Forestry and Urban Greening*, **2016**, 15, 40-44	5.4	25
37	Phytoremediation efficiency of Eichhornia crassipes in fly ash pond. *International Journal of Phytoremediation*, **2016**, 18, 450-2	3.9	25
36	Energy crops in sustainable phytoremediation. *Renewable and Sustainable Energy Reviews*, **2016**, 54, 58-73	10.2	187

35	EFFECT OF FLY ASH ON CROP YIELD AND PHYSICO-CHEMICAL, MICROBIAL AND ENZYME ACTIVITIES OF SODIC SOILS. *Environmental Engineering and Management Journal*, **2016**, 15, 2433-2440	0.6	17
34	Phytodiversity on fly ash deposits: evaluation of naturally colonized species for sustainable phytorestoration. *Environmental Science and Pollution Research*, **2015**, 22, 2776-87	5.1	71
33	Aromatic plants versus arsenic hazards in soils. *Journal of Geochemical Exploration*, **2015**, 157, 77-80	3.8	37
32	Assisted phytoremediation of fly ash dumps through naturally colonized plants. *Ecological Engineering*, **2015**, 82, 1-5	3.9	61
31	Sustainable phytoremediation based on naturally colonizing and economically valuable plants. *Journal of Cleaner Production*, **2015**, 86, 37-39	10.3	108
30	Saccharum spontaneum: an underutilized tall grass for revegetation and restoration programs. *Genetic Resources and Crop Evolution*, **2015**, 62, 443-450	2	53
29	Rhizoremediation potential of spontaneously grown Typha latifolia on fly ash basins: Study from the field. *Ecological Engineering*, **2014**, 71, 722-727	3.9	53
28	Fast green capping on coal fly ash basins through ecological engineering. *Ecological Engineering*, **2014**, 73, 671-675	3.9	30
27	Aromatic grasses for phytomanagement of coal fly ash hazards. *Ecological Engineering*, **2014**, 73, 425-428	3.9	69
26	Methanotrophs: promising bacteria for environmental remediation. *International Journal of Environmental Science and Technology*, **2014**, 11, 241-250	3.3	48
25	Suitability of Ricinus communis L. cultivation for phytoremediation of fly ash disposal sites. *Ecological Engineering*, **2013**, 57, 336-341	3.9	110
24	Leucaena leucocephala: an underutilized plant for pulp and paper production. *Genetic Resources and Crop Evolution*, **2013**, 60, 1165-1171	2	35
23	Traditional uses of medicinal plants for dermatological healthcare management practices by the Tharu tribal community of Uttar Pradesh, India. *Genetic Resources and Crop Evolution*, **2013**, 60, 203-224	2	18
22	Fly ash application in nutrient poor agriculture soils: impact on methanotrophs population dynamics and paddy yields. *Ecotoxicology and Environmental Safety*, **2013**, 89, 43-51	7	59
21	Cynodon dactylon: An efficient perennial grass to revegetate sodic lands. *Ecological Engineering*, **2013**, 54, 32-38	3.9	39
20	Feasibility of fern Thelypteris dentata for revegetation of coal fly ash landfills. *Journal of Geochemical Exploration*, **2013**, 128, 147-152	3.8	47
19	Jatropha curcas: A potential biofuel plant for sustainable environmental development. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 2870-2883	16.2	244
18	Documentation and determination of consensus about phytotherapeutic veterinary practices among the Tharu tribal community of Uttar Pradesh, India. *Tropical Animal Health and Production*, **2012**, 44, 863-72	1.7	8

17	Phytoremediation of heavy metals from fly ash pond by Azolla caroliniana. *Ecotoxicology and Environmental Safety*, **2012**, 82, 8-12	7	114
16	Naturally growing Saccharum munja L. on the fly ash lagoons: A potential ecological engineer for the revegetation and stabilization. *Ecological Engineering*, **2012**, 40, 95-99	3.9	88
15	Ecological restoration of degraded sodic lands through afforestation and cropping. *Ecological Engineering*, **2012**, 43, 70-80	3.9	64
14	Invasive species based efficient green technology for phytoremediation of fly ash deposits. *Journal of Geochemical Exploration*, **2012**, 123, 13-18	3.8	78
13	Coal fly ash and farmyard manure amendments in dry-land paddy agriculture field: Effect on N-dynamics and paddy productivity. *Applied Soil Ecology*, **2011**, 47, 133-140	5	53
12	Is Vigna radiata suitable for the revegetation of fly ash landfills?. *Ecological Engineering*, **2011**, 37, 2105-2106	3.9	39
11	Efficient soil microorganisms: A new dimension for sustainable agriculture and environmental development. *Agriculture, Ecosystems and Environment*, **2011**, 140, 339-353	5.7	448
10	Arsenic hazards in coal fly ash and its fate in Indian scenario. *Resources, Conservation and Recycling*, **2011**, 55, 819-835	11.9	157
9	New Approaches to Enhance Eco-Restoration Efficiency of Degraded Sodic Lands: Critical Research Needs and Future Prospects. *Ecological Restoration*, **2011**, 29, 322-325		30
8	Impact of fly ash incorporation in soil systems. *Agriculture, Ecosystems and Environment*, **2010**, 136, 16-27	5.7	304
7	Influence of pyrite and farmyard manure on population dynamics of soil methanotroph and rice yield in saline rain-fed paddy field. *Agriculture, Ecosystems and Environment*, **2010**, 139, 74-79	5.7	39
6	Accumulation of Heavy Metals by Chickpea Grown in Fly Ash Treated Soil: Effect on Antioxidants. *Clean - Soil, Air, Water*, **2010**, 38, 1116-1123	1.6	68
5	The Indian perspective of utilizing fly ash in phytoremediation, phytomanagement and biomass production. *Journal of Environmental Management*, **2009**, 90, 2943-58	7.9	132
4	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, 255-9	12.8	93
3	Phytofiltration of cadmium from water by Limnocharis flava (L.) Buchenau grown in free-floating culture system. *Journal of Hazardous Materials*, **2009**, 170, 791-7	12.8	60
2	Biochar-based land development. *Land Degradation and Development*,	4.4	0
1	Direct seeding offers affordable restoration for fly ash deposits. *Energy, Ecology and Environment*,1	3.5	5