

Subodh Kumar Maiti

List of Publications by Year in Descending Order

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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.

123
papers

2,626
citations

31
h-index

45
g-index

128
ext. papers

3,292
ext. citations

3.9
avg, IF

6.37
L-index

#	Paper	IF	Citations
123	Phytoremediation of fly ash: bioaccumulation and translocation of metals in natural colonizing vegetation on fly ash lagoons 2022 , 501-523		
122	Potential and prospects of weed plants in phytoremediation and eco-restoration of heavy metals polluted sites 2022 , 187-205		0
121	Phytoremediation and environmental bioremediation 2022 , 1-18		
120	Ecological restoration of waste dump generated from an integrated steel plant: A case study 2022 , 157-171		0
119	Reclamation of industrial waste dump using grass-legume mixture: An experimental approach to combat land degradation. <i>Ecological Engineering</i> , 2022 , 174, 106443	3.9	3
118	Brassica Juncea (L.) Czern. (Indian Mustard): A Potential Candidate for the Phytoremediation of Mercury from Soil. <i>Lecture Notes in Civil Engineering</i> , 2021 , 67-72	0.3	
117	Impact of Climate Change on Functional Root-Derived Signals. <i>Soil Biology</i> , 2021 , 3-11	1	
116	Eco-Restoration of Coal Mine Spoil: Biochar Application and Carbon Sequestration for Achieving UN Sustainable Development Goals 13 and 15. <i>Land</i> , 2021 , 10, 1112	3.5	3
115	Biochar assisted phytoremediation and biomass disposal in heavy metal contaminated mine soils: a review. <i>International Journal of Phytoremediation</i> , 2021 , 23, 559-576	3.9	18
114	Changes in soil properties and carbon fluxes following afforestation and agriculture in tropical forest. <i>Ecological Indicators</i> , 2021 , 123, 107354	5.8	10
113	Ecological Restoration of Abandoned Mine Land 2021 , 231-246		1
112	Use of Biochar as an Amendment for Remediation of Heavy Metal-Contaminated Soils 2021 , 163-177		1
111	Bioaccessibilities and health risk assessment of heavy and trace elements in fish from an urban city, India. <i>Human and Ecological Risk Assessment (HERA)</i> , 2021 , 27, 50-70	4.9	3
110	Importance of selection of plant species for successful ecological restoration program in coal mine degraded land 2021 , 325-357		0
109	Removal of heavy metals from coke-plant effluents by using wetlands 2021 , 263-299		
108	Bioaccumulation of potentially toxic elements in three mangrove species and human health risk due to their ethnobotanical uses. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 33042	5.1	12
107	Biochar-assisted eco-restoration of coal mine degraded land to meet United Nation Sustainable Development Goals. <i>Land Degradation and Development</i> , 2021 , 32, 4494	4.4	6

106	Different Soil Factors Influencing Dehydrogenase Activity in Mine Degraded Lands: State-of-Art Review. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	0
105	Application of statistical and machine learning approach for prediction of soil quality index formulated to evaluate trajectory of ecosystem recovery in coal mine degraded land. <i>Ecological Engineering</i> , 2021 , 170, 106351	3.9	2
104	Assessment of Forest Ecosystem Development in Coal Mine Degraded Land by Using Integrated Mine Soil Quality Index (IMSQI): The Evidence from India. <i>Forests</i> , 2020 , 11, 1310	2.8	9
103	Plant-Soil interactions as a restoration tool 2020 , 689-730		4
102	Bioassessment in the aquatic ecosystems of highly urbanized agglomeration in India: An application of physicochemical and macroinvertebrate-based indices. <i>Ecological Indicators</i> , 2020 , 111, 106053	5.8	3
101	(L.) (Indian mustard): a putative plant species to facilitate the phytoremediation of mercury contaminated soils. <i>International Journal of Phytoremediation</i> , 2020 , 22, 733-744	3.9	27
100	Sources, bioaccumulation, health risks and remediation of potentially toxic metal(loid)s (As, Cd, Cr, Pb and Hg): an epitomised review. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 108	3.1	27
99	Municipal and Industrial Wastewater Treatment Using Constructed Wetlands. <i>Concepts and Strategies in Plant Sciences</i> , 2020 , 329-367	0.5	2
98	Mercury remediation potential of Brassica juncea (L.) Czern. for clean-up of flyash contaminated sites. <i>Chemosphere</i> , 2020 , 248, 125857	8.4	17
97	Risk assessment of potentially toxic elements in soils and vegetables around coal-fired thermal power plant: a case study of Dhanbad, India. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 699	3.1	6
96	Risks Assessment of Heavy Metal Pollution in Roadside Soil and Vegetation of National Highway Crossing through Industrial Area. <i>Environmental Processes</i> , 2020 , 7, 1197-1220	2.8	6
95	Effect of Fast-Growing Trees on Soil Properties and Carbon Storage in an Afforested Coal Mine Land (India). <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 840	2.4	8
94	Ameliorative effect of Lantana camara biochar on coal mine spoil and growth of maize (Zea mays). <i>Soil Use and Management</i> , 2020 , 36, 726-739	3.1	18
93	Can biochar reclaim coal mine spoil?. <i>Journal of Environmental Management</i> , 2020 , 272, 111097	7.9	19
92	Metal(loid) contamination in water, sediment, epilithic periphyton and fish in three interconnected ecosystems and health risk assessment through intake of fish cooked in Indian style. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 41914-41927	5.1	2
91	Evaluation of PAHs concentration and cancer risk assessment on human health in a roadside soil: A case study. <i>Human and Ecological Risk Assessment (HERA)</i> , 2020 , 26, 1042-1061	4.9	3
90	Toxic metal(loid)s contamination and potential human health risk assessment in the vicinity of century-old copper smelter, Karabash, Russia. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 4113-4124	4.7	10
89	An approach to counter sediment toxicity by immobilization of heavy metals using waste fish scale derived biosorbent. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 187, 109833	7	13

88	Evaluation of ecological restoration success in mining-degraded lands. <i>Environmental Quality Management</i> , 2019 , 29, 89-100	0.8	7
87	Health risk assessment of lead, mercury, and other metal(loid)s: A potential threat to the population consuming fish inhabiting, a lentic ecosystem in Steel City (Jamshedpur), India. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019 , 25, 2174-2192	4.9	8
86	Assessment of heavy metal contamination in roadside deposition soil along a busy traffic road: A case study 2019 ,		1
85	Carbon bio-fixation, effect of physicochemical factors and carbon supply strategies by <i>Nannochloropsis</i> sp. using flue gas and fertilizer. <i>Biomass and Bioenergy</i> , 2019 , 125, 95-104	5.3	5
84	Heavy metals distribution in Eucalyptus tree in 30 years old reclaimed overburden dumps 2019 ,		1
83	Sources, toxicity, and remediation of mercury: an essence review. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 566	3.1	45
82	Reclamation of coalmine spoils with topsoil, grass, and legume: a case study from India. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	14
81	Bioaccumulation of potentially toxic elements in tree and vegetable species with associated health and ecological risks: a case study from a thermal power plant, Chandrapura, India. <i>Rendiconti Lincei</i> , 2019 , 30, 649-665	1.7	18
80	Evaluation of toxic metal(loid)s concentration in soils around an open-cast coal mine (Eastern India). <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	13
79	Abatement of cadmium (Cd) contamination in sediment using tea waste biochar through meso-microcosm study. <i>Journal of Cleaner Production</i> , 2019 , 212, 986-996	10.3	42
78	Ecological Restoration of Coal Mine Degraded Lands 2019 , 83-111		8
77	Fine root biomass and the associated C and nutrient pool under the alder (<i>Alnus</i> spp.) plantings on reclaimed technosols. <i>Geoderma</i> , 2019 , 337, 1021-1027	6.7	13
76	Evaluation of Potential Human Health Risks from Toxic Metals via Consumption of Cultured Fish Species <i>Labeo rohita</i> : A Case Study from an Urban Aquaculture Pond. <i>Exposure and Health</i> , 2019 , 11, 33-46	8.8	18
75	Differential distribution of metals in tree tissues growing on reclaimed coal mine overburden dumps, Jharia coal field (India). <i>Environmental Science and Pollution Research</i> , 2018 , 25, 9745-9758	5.1	24
74	Development of Technosol properties and recovery of carbon stock after 16 years of revegetation on coal mine degraded lands, India. <i>Catena</i> , 2018 , 166, 114-123	5.8	49
73	Seasonal variation of heavy metals in water, sediment, and highly consumed cultured fish (<i>Labeo rohita</i> and <i>Labeo bata</i>) and potential health risk assessment in aquaculture pond of the coal city, Dhanbad (India). <i>Environmental Science and Pollution Research</i> , 2018 , 25, 12464-12480	5.1	39
72	Assessment of heavy metal in the water, sediment, and two edible fish species of Jamshedpur Urban Agglomeration, India with special emphasis on human health risk. <i>Human and Ecological Risk Assessment (HERA)</i> , 2018 , 24, 1477-1500	4.9	29
71	Assessment of soil carbon pool, carbon sequestration and soil CO ₂ flux in unreclaimed and reclaimed coal mine spoils. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	18

70	Municipal wastewater treatment potential and metal accumulation strategies of <i>Colocasia esculenta</i> (L.) Schott and <i>Typha latifolia</i> L. in a constructed wetland. <i>Environmental Monitoring and Assessment</i> , 2018 , 190, 328	3.1	24
69	Evaluation of heavy metal contamination in roadside deposited sediments and road surface runoff: a case study. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	8
68	Heavy metal speciation, leaching and toxicity status of a tropical rain-fed river Damodar, India. <i>Environmental Geochemistry and Health</i> , 2018 , 40, 2303-2324	4.7	23
67	Reclamation of coal mine spoil and its effect on Technosol quality and carbon sequestration: a case study from India. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 27992-28003	5.1	27
66	Chronological Variation of Metals in Reclaimed Coal Mine Soil and Tissues of Eucalyptus Hybrid Tree After 25 Years of Reclamation, Jharia Coal Field (India). <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 101, 604-610	2.7	8
65	Mycoremediation for Mine Site Rehabilitation 2018 , 233-260		4
64	Metal Accumulation Strategies of Emergent Plants in Natural Wetland Ecosystems Contaminated with Coke-Oven Effluent. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 101, 55-60	2.7	11
63	Carbon Sequestration and Soil CO ₂ Flux in Reclaimed Coal Mine LANDS From India 2018 , 371-392		2
62	Techniques for Quantative Evaluation of Mine Site Reclamation Success: Case Study 2018 , 415-438		4
61	Grasses and legumes facilitate phytoremediation of metalliferous soils in the vicinity of an abandoned chromite-Asbestos mine. <i>Journal of Soils and Sediments</i> , 2017 , 17, 1358-1368	3.4	29
60	Changes in ecosystem carbon pool and soil CO flux following post-mine reclamation in dry tropical environment, India. <i>Science of the Total Environment</i> , 2017 , 583, 153-162	10.2	58
59	Ecological risk assessment of mercury and other heavy metals in soils of coal mining area: A case study from the eastern part of a Jharia coal field, India. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017 , 23, 767-787	4.9	43
58	Development of carbon, nitrogen and phosphate stocks of reclaimed coal mine soil within 8 years after forestation with <i>Prosopis juliflora</i> (Sw.) Dc.. <i>Catena</i> , 2017 , 156, 42-50	5.8	46
57	Health risk assessment of Tiger prawn seed collectors exposed to heavy metal pollution in the conserved mangrove forest of Indian Sundarbans: A socio-environmental perspective. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017 , 23, 203-224	4.9	20
56	Assessment of carbon sequestration potential of revegetated coal mine overburden dumps: A chronosequence study from dry tropical climate. <i>Journal of Environmental Management</i> , 2017 , 201, 369-377	7.0	36
55	Biodiversity variability and metal accumulation strategies in plants spontaneously inhibiting fly ash lagoon, India. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 22990-23005	5.1	19
54	Assessment of Heavy Metals Contamination in Reclaimed Mine Soil and their Accumulation and Distribution in Eucalyptus Hybrid. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017 , 98, 97-104	2.7	13
53	Metabolic pathways for lipid synthesis under nitrogen stress in <i>Chlamydomonas</i> and <i>Nannochloropsis</i> . <i>Biotechnology Letters</i> , 2017 , 39, 1-11	3	34

52	Quantitative study on the soil reconstruction of a root system in the coal resource-concentrated distribution of Shenfu mineral regions 2017 , 461-464		
51	Bioaccumulation of metals in timber and edible fruit trees growing on reclaimed coal mine overburden dumps. <i>International Journal of Mining, Reclamation and Environment</i> , 2016 , 30, 231-244	2.2	23
50	Dynamics of mangrove diversity influenced by climate change and consequent accelerated sea level rise at Indian Sundarbans. <i>International Journal of Global Warming</i> , 2016 , 9, 486	0.6	20
49	Ecological Risk Assessment of Metals Contamination in the Sediments of Natural Urban Wetlands in Dry Tropical Climate. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016 , 97, 407-12	2.7	19
48	Estimation of carbon sequestration in reclaimed coalmine degraded land dominated by Albizia lebeck, Dalbergia sissoo and Bambusa arundinacea plantation: a case study from Jharia Coalfields, India. <i>International Journal of Coal Science and Technology</i> , 2016 , 3, 246-266	4.5	19
47	Fertilizer assisted optimal cultivation of microalgae using response surface method and genetic algorithm for biofuel feedstock. <i>Energy</i> , 2016 , 115, 1272-1290	7.9	27
46	Assessing the ecological health risk in a conserved mangrove ecosystem due to heavy metal pollution: A case study from Sundarbans Biosphere Reserve, India. <i>Human and Ecological Risk Assessment (HERA)</i> , 2016 , 22, 1519-1541	4.9	29
45	Assessment of soil properties of different land uses generated due to surface coal mining activities in tropical Sal (<i>Shorea robusta</i>) forest, India. <i>Catena</i> , 2016 , 140, 155-163	5.8	65
44	Importance of carbon fractionation for the estimation of carbon sequestration in reclaimed coalmine soils: A case study from Jharia coalfields, Jharkhand, India. <i>Ecological Engineering</i> , 2016 , 90, 135-140	3.9	26
43	Seasonal variation in heavy metal contaminations in water and sediments of Jamshedpur stretch of Subarnarekha river, India. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	67
42	COMPARATIVE STUDY ON BIOACCUMULATION AND TRANSLOCATION OF METALS IN BERMUDA GRASS (<i>CYNODON DACTYLON</i>) NATURALLY GROWING ON FLY ASH LAGOON AND TOPSOIL. <i>Applied Ecology and Environmental Research</i> , 2016 , 14, 1-12	1.9	7
41	Treatment of Coke Oven Effluents by Duckweeds Ponds [A Laboratory Scale Study 2016 , 435-439		
40	Ecological Restoration of Coal Mine-Degraded Lands in Dry Tropical Climate: What Has Been Done and What Needs to Be Done?. <i>Environmental Quality Management</i> , 2016 , 26, 25-36	0.8	20
39	Identifying the source and accessing the spatial variations, contamination status, conservation threats of heavy metal pollution in the river waters of Sunderban biosphere reserve, India. <i>Journal of Coastal Conservation</i> , 2016 , 20, 257-269	1.9	26
38	Identification of metal tolerant plant species in mangrove ecosystem by using community study and multivariate analysis: a case study from Indian Sunderban. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	40
37	How to communicate climate change 'impact and solutions' to vulnerable population of Indian Sundarbans? From theory to practice. <i>SpringerPlus</i> , 2016 , 5, 1219		13
36	Energy Plantations, Medicinal and Aromatic Plants on Contaminated Soil 2016 , 29-47		3
35	Assessment of the capability of remote sensing and GIS techniques for monitoring reclamation success in coal mine degraded lands. <i>Journal of Environmental Management</i> , 2016 , 182, 272-283	7.9	77

34	Assessment of potentially toxic heavy metal contamination in agricultural fields, sediment, and water from an abandoned chromite-asbestos mine waste of Roro hill, Chaibasa, India. <i>Environmental Earth Sciences</i> , 2015 , 74, 2617-2633	2.9	48
33	Metal contamination in water and bioaccumulation of metals in the planktons, molluscs and fishes in Jamshedpur stretch of Subarnarekha River of Chotanagpur plateau, India. <i>Water and Environment Journal</i> , 2015 , 29, 207-213	1.7	23
32	Soil development in 201 years old coalmine reclaimed spoil with trees: A case study from Sonepur-Bazari opencast project, Raniganj Coalfield, India. <i>Ecological Engineering</i> , 2015 , 84, 311-324	3.9	45
31	Investigations on PAHs and trace elements in coal and its combustion residues from a power plant. <i>Fuel</i> , 2015 , 162, 138-147	7.1	75
30	Effect of Organic Manures on the Growth of <i>Cymbopogon citratus</i> and <i>Chrysopogon zizanioides</i> for the Phytoremediation of Chromite-Asbestos Mine Waste: A Pot Scale Experiment. <i>International Journal of Phytoremediation</i> , 2015 , 17, 437-47	3.9	34
29	Ecological restoration of waste dumps by topsoil blanketing, coir-matting and seeding with grass-legume mixture. <i>Ecological Engineering</i> , 2015 , 77, 74-84	3.9	50
28	Algae as Bio-monitors for Damodar River Water Pollution. <i>Current World Environment Journal</i> , 2015 , 10, 941-950	0.7	
27	Development of mine soil quality index (MSQI) for evaluation of reclamation success: A chronosequence study. <i>Ecological Engineering</i> , 2014 , 71, 10-20	3.9	114
26	Translocation and bioaccumulation of metals in <i>Oryza sativa</i> and <i>Zea mays</i> growing in chromite-asbestos contaminated agricultural fields, Jharkhand, India. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014 , 93, 434-41	2.7	19
25	SOIL CO ₂ FLUX IN GRASSLAND, AFFORESTED LAND AND RECLAIMED COALMINE OVERBURDEN DUMPS: A CASE STUDY. <i>Land Degradation and Development</i> , 2014 , 25, 216-227	4.4	58
24	Use of Reclaimed Mine Soil Index (RMSI) for screening of tree species for reclamation of coal mine degraded land. <i>Ecological Engineering</i> , 2013 , 57, 133-142	3.9	91
23	Minesoil Properties Affecting Plant Establishment and Growth 2013 , 61-81		1
22	Ecology and Ecosystem in Mine-Degraded Land 2013 , 21-37		5
21	Establishment of Grass and Legume Cover 2013 , 151-161		2
20	Effects of Anthropogenic Pollution on Mangrove Biodiversity: A Review. <i>Journal of Environmental Protection</i> , 2013 , 04, 1428-1434	0.6	62
19	Ecorestoration of the coalmine degraded lands 2013 ,		48
18	Trace metal accumulation and natural mycorrhizal colonisation in an afforested coalmine overburden dump: a case study from India. <i>International Journal of Mining, Reclamation and Environment</i> , 2011 , 25, 187-207	2.2	32
17	Bioremediation of copper mine waste: a case study from Mosaboni copper mines, Eastern India. <i>International Journal of Environment and Pollution</i> , 2010 , 43, 78	0.7	1

16	Growth of <i>Cymbopogon citratus</i> and <i>Vetiveria zizanioides</i> on Cu mine tailings amended with chicken manure and manure-soil mixtures: a pot scale study. <i>International Journal of Phytoremediation</i> , 2009 , 11, 651-63	3.9	39
15	Bioaccumulation and translocation of metals in the natural vegetation growing on fly ash lagoons: a field study from Santaldih thermal power plant, West Bengal, India. <i>Environmental Monitoring and Assessment</i> , 2008 , 136, 355-70	3.1	91
14	Comparison between availability of heavy metals in dry and wetland tailing of an abandoned copper tailing pond. <i>Environmental Monitoring and Assessment</i> , 2008 , 137, 343-50	3.1	40
13	Metal accumulation in naturally colonizing vegetation in abandoned Cu-tailings ponds at Rakha mines, East Singhbhum, Jharkhand, India. <i>Land Contamination and Reclamation</i> , 2008 , 16, 135-153		2
12	Bioreclamation of coalmine overburden dumps--with special emphasis on micronutrients and heavy metals accumulation in tree species. <i>Environmental Monitoring and Assessment</i> , 2007 , 125, 111-22	3.1	63
11	Metal accumulation in <i>A. baccifera</i> growing naturally on abandoned copper tailings pond. <i>Environmental Monitoring and Assessment</i> , 2007 , 127, 119-25	3.1	25
10	METAL ACCUMULATION IN 5 NATIVE PLANTS GROWING ON ABANDONED CU-TAILINGS PONDS. <i>Applied Ecology and Environmental Research</i> , 2007 , 5, 27-35	1.9	17
9	Selection of plant species for the reclamation of mine-degraded land in the Indian context. <i>Land Contamination and Reclamation</i> , 2007 , 15, 55-65		4
8	Properties of mine soil and its affects on bioaccumulation of metals in tree species: case study from a large opencast coalmining project. <i>International Journal of Mining, Reclamation and Environment</i> , 2006 , 20, 96-110	2.2	20
7	Distribution of PM(2.5) and PM(10-2.5) in PM(10) fraction in ambient air due to vehicular pollution in Kolkata megacity. <i>Environmental Monitoring and Assessment</i> , 2006 , 122, 111-23	3.1	45
6	Bioavailability of metals in fly ash and their bioaccumulation in naturally occurring vegetation: a pilot scale study. <i>Environmental Monitoring and Assessment</i> , 2006 , 116, 263-73	3.1	44
5	Accumulation of metals by naturally growing herbaceous and tree species in iron ore tailings. <i>International Journal of Environmental Studies</i> , 2005 , 62, 593-603	1.8	11
4	Ecological restoration of acidic coalmine overburden dumps - an Indian case study. <i>Land Contamination and Reclamation</i> , 2005 , 13, 361-369		31
3	Nitrogen recovery in reclaimed mine soil under different amendment practices in tandem with legume and non-legume revegetation: A review. <i>Soil Use and Management</i> ,	3.1	0
2	Restoring coal mine degraded lands in India for achieving the United Nations-Sustainable Development Goals. <i>Restoration Ecology</i> ,e13606	3.1	3
1	Effect of invasive weed biochar amendment on soil enzymatic activity and respiration of coal mine spoil: a laboratory experiment study. <i>Biochar</i> ,1	10	3