Subodh Kumar Maiti

List of Publications by Year
in descending order

124	4,017	101496	155592
papers	citations	36 h-index	55 g-index

129	129	129	2941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of mine soil quality index (MSQI) for evaluation of reclamation success: A chronosequence study. Ecological Engineering, 2014, 71, 10-20.	1.6	144
2	Assessment of soil properties of different land uses generated due to surface coal mining activities in tropical Sal (Shorea robusta) forest, India. Catena, 2016, 140, 155-163.	2.2	120
3	Use of Reclaimed Mine Soil Index (RMSI) for screening of tree species for reclamation of coal mine degraded land. Ecological Engineering, 2013, 57, 133-142.	1.6	116
4	Assessment of the capability of remote sensing and GIS techniques for monitoring reclamation success in coal mine degraded lands. Journal of Environmental Management, 2016, 182, 272-283.	3.8	116
5	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. Environmental Monitoring and Assessment, 2007, 136, 355-370.	1.3	106
6	Investigations on PAHs and trace elements in coal and its combustion residues from a power plant. Fuel, 2015, 162, 138-147.	3.4	106
7	Sources, toxicity, and remediation of mercury: an essence review. Environmental Monitoring and Assessment, 2019, 191, 566.	1.3	96
8	Seasonal variation in heavy metal contaminations in water and sediments of Jamshedpur stretch of Subarnarekha river, India. Environmental Earth Sciences, 2016, 75, 1.	1.3	90
9	Ecorestoration of the coalmine degraded lands. , 2013, , .		88
10	Effects of Anthropogenic Pollution on Mangrove Biodiversity: A Review. Journal of Environmental Protection, 2013, 04, 1428-1434.	0.3	87
11	Bioreclamation of coalmine overburden dumpsâ€"with special empasis on micronutrients and heavy metals accumulation in tree species. Environmental Monitoring and Assessment, 2007, 125, 111-122.	1.3	85
12	Changes in ecosystem carbon pool and soil CO 2 flux following post-mine reclamation in dry tropical environment, India. Science of the Total Environment, 2017, 583, 153-162.	3.9	79
13	Development of carbon, nitrogen and phosphate stocks of reclaimed coal mine soil within 8 years after forestation with Prosopis juliflora (Sw.) Dc.. Catena, 2017, 156, 42-50.	2.2	77
14	Soil development in 2â€"21 years old coalmine reclaimed spoil with trees: A case study from Sonepur-Bazari opencast project, Raniganj Coalfield, India. Ecological Engineering, 2015, 84, 311-324.	1.6	72
15	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. Human and Ecological Risk Assessment (HERA), 2017, 23, 767-787.	1.7	72
16	Development of Technosol properties and recovery of carbon stock after 16â€¯years of revegetation on coal mine degraded lands, India. Catena, 2018, 166, 114-123.	2.2	70
17	Sources, bioaccumulation, health risks and remediation of potentially toxic metal(loid)s (As, Cd, Cr,) Tj ETQq1 1 0.784314 rgBT /Overl	1.3	69
18	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. Environmental Earth Sciences, 2015, 74, 2617-2633.	1.3	66

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19	Ecological restoration of waste dumps by topsoil blanketing, coir-matting and seeding with grassâ€“legume mixture. Ecological Engineering, 2015, 77, 74-84.	1.6	65
20	Abatement of cadmium (Cd) contamination in sediment using tea waste biochar through meso-microcosm study. Journal of Cleaner Production, 2019, 212, 986-996.	4.6	63
21	SOIL CO₂ FLUX IN GRASSLAND, AFFORESTED LAND AND RECLAIMED COALMINE OVERBURDEN DUMPS: A CASE STUDY. Land Degradation and Development, 2014, 25, 216-227.	1.8	62
22	Bioavailability of Metals in Fly Ash and Their Bioaccumulation in Naturally Occurring Vegetation: A Pilot Scale Study. Environmental Monitoring and Assessment, 2006, 116, 263-273.	1.3	55
23	Seasonal variation of heavy metals in water, sediment, and highly consumed cultured fish (Labeo) Tj ETQq1 1 0.784314 rgBT /Overloc Dhanbad (India). Environmental Science and Pollution Research, 2018, 25, 12464-12480.	2.7	55
24	Identification of metal tolerant plant species in mangrove ecosystem by using community study and multivariate analysis: a case study from Indian Sunderban. Environmental Earth Sciences, 2016, 75, 1.	1.3	54
25	Assessment of carbon sequestration potential of revegetated coal mine overburden dumps: A chronosequence study from dry tropical climate. Journal of Environmental Management, 2017, 201, 369-377.	3.8	53
26	Distribution of PM2.5 and PM10-2.5 in PM10 Fraction in Ambient Air Due to Vehicular Pollution in Kolkata Megacity. Environmental Monitoring and Assessment, 2006, 122, 111-123.	1.3	50
27	GROWTH OFCYMBOPOGON CITRATUSANDVETIVERIA ZIZANIOIDESON Cu MINE TAILINGS AMENDED WITH CHICKEN MANURE AND MANURE-SOIL MIXTURES: A POT SCALE STUDY. International Journal of Phytoremediation, 2009, 11, 651-663.	1.7	47
28	Comparison between availability of heavy metals in dry and wetland tailing of an abandoned copper tailing pond. Environmental Monitoring and Assessment, 2008, 137, 343-350.	1.3	46
29	Brassica juncea (L.) Czern. (Indian mustard): a putative plant species to facilitate the phytoremediation of mercury contaminated soils. International Journal of Phytoremediation, 2020, 22, 733-744.	1.7	46
30	Ecological restoration of acidic coalmine overburden dumps - an Indian case study. Land Contamination and Reclamation, 2005, 13, 361-369.	0.4	46
31	Metabolic pathways for lipid synthesis under nitrogen stress in Chlamydomonas and Nannochloropsis. Biotechnology Letters, 2017, 39, 1-11.	1.1	45
32	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. Human and Ecological Risk Assessment (HERA), 2018, 24, 1477-1500.	1.7	45
33	Reclamation of coal mine spoil and its effect on Technosol quality and carbon sequestration: a case study from India. Environmental Science and Pollution Research, 2018, 25, 27992-28003.	2.7	44
34	Effect of Organic Manures on the Growth ofCymbopogon citratusandChrysopogon zizanioidesfor the Phytoremediation of Chromite-Asbestos Mine Waste: A Pot Scale Experiment. International Journal of Phytoremediation, 2015, 17, 437-447.	1.7	42
35	Bioaccumulation of metals in timber and edible fruit trees growing on reclaimed coal mine overburden dumps. International Journal of Mining, Reclamation and Environment, 2016, 30, 231-244.	1.2	41
36	Biochar assisted phytoremediation and biomass disposal in heavy metal contaminated mine soils: a review. International Journal of Phytoremediation, 2021, 23, 1-18.	1.7	41

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37	Assessing the ecological health risk in a conserved mangrove ecosystem due to heavy metal pollution: A case study from Sundarbans Biosphere Reserve, India. Human and Ecological Risk Assessment (HERA), 2016, 22, 1519-1541.	1.7	39
38	Dynamics of mangrove diversity influenced by climate change and consequent accelerated sea level rise at Indian Sundarbans. International Journal of Global Warming, 2016, 9, 486.	0.2	37
39	Grasses and legumes facilitate phytoremediation of metalliferous soils in the vicinity of an abandoned chromiteâ€“asbestos mine. Journal of Soils and Sediments, 2017, 17, 1358-1368.	1.5	37
40	Differential distribution of metals in tree tissues growing on reclaimed coal mine overburden dumps, Jharia coal field (India). Environmental Science and Pollution Research, 2018, 25, 9745-9758.	2.7	37
41	Municipal wastewater treatment potential and metal accumulation strategies of Colocasia esculenta (L.) Schott and Typha latifolia L. in a constructed wetland. Environmental Monitoring and Assessment, 2018, 190, 328.	1.3	37
42	Can biochar reclaim coal mine spoil?. Journal of Environmental Management, 2020, 272, 111097.	3.8	37
43	Trace metal accumulation and natural mycorrhizal colonisation in an afforested coalmine overburden dump: a case study from India. International Journal of Mining, Reclamation and Environment, 2011, 25, 187-207.	1.2	36
44	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. Journal of Coastal Conservation, 2016, 20, 257-269.	0.7	35
45	Importance of carbon fractionation for the estimation of carbon sequestration in reclaimed coalmine soilsâ€”A case study from Jharia coalfields, Jharkhand, India. Ecological Engineering, 2016, 90, 135-140.	1.6	35
46	Heavy metal speciation, leaching and toxicity status of a tropical rain-fed river Damodar, India. Environmental Geochemistry and Health, 2018, 40, 2303-2324.	1.8	34
47	Ameliorative effect of Lantana camara biochar on coal mine spoil and growth of maize (Zea) Tj ETQq1 1 0.784314 rgBT /Ov	2.6	34
48	Evaluation of toxic metal(loid)s concentration in soils around an open-cast coal mine (Eastern India). Environmental Earth Sciences, 2019, 78, 1.	1.3	32
49	Fertilizer assisted optimal cultivation of microalgae using response surface method and genetic algorithm for biofuel feedstock. Energy, 2016, 115, 1272-1290.	4.5	30
50	Evaluation of Potential Human Health Risks from Toxic Metals via Consumption of Cultured Fish Species Labeo rohita: A Case Study from an Urban Aquaculture Pond. Exposure and Health, 2019, 11, 33-46.	2.8	30
51	Mercury remediation potential of Brassica juncea (L.) Czern. for clean-up of flyash contaminated sites. Chemosphere, 2020, 248, 125857.	4.2	30
52	Changes in soil properties and carbon fluxes following afforestation and agriculture in tropical forest. Ecological Indicators, 2021, 123, 107354.	2.6	30
53	Ecological Restoration of Coal Mineâ€Degraded Lands in Dry Tropical Climate: What Has Been Done and What Needs to Be Done?. Environmental Quality Management, 2016, 26, 25-36.	1.0	29
54	Biodiversity variability and metal accumulation strategies in plants spontaneously inhibiting fly ash lagoon, India. Environmental Science and Pollution Research, 2017, 24, 22990-23005.	2.7	29

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55	Metal contamination in water and bioaccumulation of metals in the planktons, molluscs and fishes in Jamshedpur stretch of Subarnarekha River of Chotanagpur plateau, India. Water and Environment Journal, 2015, 29, 207-213.	1.0	28
56	Assessment of soil carbon pool, carbon sequestration and soil CO2 flux in unreclaimed and reclaimed coal mine spoils. Environmental Earth Sciences, 2018, 77, 1.	1.3	28
57	Health risk assessment of â€˜tiger prawn seedâ€™ collectors exposed to heavy metal pollution in the conserved mangrove forest of Indian Sundarbans: A socio-environmental perspective. Human and Ecological Risk Assessment (HERA), 2017, 23, 203-224.	1.7	27
58	Reclamation of coalmine spoils with topsoil, grass, and legume: a case study from India. Environmental Earth Sciences, 2019, 78, 1.	1.3	27
59	Metal accumulation in A. baccifera growing naturally on abandoned copper tailings pond. Environmental Monitoring and Assessment, 2007, 127, 119-125.	1.3	26
60	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. Rendiconti Lincei, 2019, 30, 649-665.	1.0	25
61	An approach to counter sediment toxicity by immobilization of heavy metals using waste fish scale derived biosorbent. Ecotoxicology and Environmental Safety, 2020, 187, 109833.	2.9	25
62	Properties of mine soil and its affects on bioaccumulation of metals in tree species: case study from a large opencast coalmining project. International Journal of Mining, Reclamation and Environment, 2006, 20, 96-110.	1.2	24
63	Estimation of carbon sequestration in reclaimed coalmine degraded land dominated by Albizia lebbeck, Dalbergia sissoo and Bambusa arundinacea plantation: a case study from Jharia Coalfields, India. International Journal of Coal Science and Technology, 2016, 3, 246-266.	2.7	24
64	Bioaccumulation of potentially toxic elements in three mangrove species and human health risk due to their ethnobotanical uses. Environmental Science and Pollution Research, 2021, 28, 33042-33059.	2.7	24
65	Biocharâ€assisted ecoâ€restoration of coal mine degraded land to meet United Nation Sustainable Development Goals. Land Degradation and Development, 2021, 32, 4494-4508.	1.8	24
66	Translocation and Bioaccumulation of Metals in Oryza sativa and Zea mays Growing in Chromite-Asbestos Contaminated Agricultural Fields, Jharkhand, India. Bulletin of Environmental Contamination and Toxicology, 2014, 93, 434-441.	1.3	23
67	Ecological Risk Assessment of Metals Contamination in the Sediments of Natural Urban Wetlands in Dry Tropical Climate. Bulletin of Environmental Contamination and Toxicology, 2016, 97, 407-412.	1.3	23
68	Toxic metal(loid)s contamination and potential human health risk assessment in the vicinity of century-old copper smelter, Karabash, Russia. Environmental Geochemistry and Health, 2020, 42, 4113-4124.	1.8	23
69	How to communicate climate change â€˜impact and solutionsâ€™ to vulnerable population of Indian Sundarbans? From theory to practice. SpringerPlus, 2016, 5, 1219.	1.2	22
70	Assessment of Forest Ecosystem Development in Coal Mine Degraded Land by Using Integrated Mine Soil Quality Index (IMSQI): The Evidence from India. Forests, 2020, 11, 1310.	0.9	22
71	METAL ACCUMULATION IN 5 NATIVE PLANTS GROWING ON ABANDONED CU-TAILINGS PONDS. Applied Ecology and Environmental Research, 2007, 5, 27-35.	0.2	21
72	Fine root biomass and the associated C and nutrient pool under the alder (Alnus spp.) plantings on reclaimed technosols. Geoderma, 2019, 337, 1021-1027.	2.3	20

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73	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. Ecological Engineering, 2021, 170, 106351.	1.6	19
74	Assessment of Heavy Metals Contamination in Reclaimed Mine Soil and their Accumulation and Distribution in Eucalyptus Hybrid. Bulletin of Environmental Contamination and Toxicology, 2017, 98, 97-104.	1.3	18
75	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. Human and Ecological Risk Assessment (HERA), 2019, 25, 2174-2192.	1.7	18
76	Restoring coal mine degraded lands in India for achieving the United Nationsâ€Sustainable Development Goals. Restoration Ecology, 2022, 30, e13606.	1.4	17
77	Evaluation of ecological restoration success in miningâ€degraded lands. Environmental Quality Management, 2019, 29, 89-100.	1.0	16
78	Ecological Restoration of Coal Mine Degraded Lands. , 2019, , 83-111.		16
79	Accumulation of metals by naturally growing herbaceous and tree species in iron ore tailings. International Journal of Environmental Studies, 2005, 62, 593-603.	0.7	14
80	Evaluation of heavy metal contamination in roadside deposited sediments and road surface runoff: a case study. Environmental Earth Sciences, 2018, 77, 1.	1.3	14
81	Chronological Variation of Metals in Reclaimed Coal Mine Soil and Tissues of Eucalyptus Hybrid Tree After 25 Years of Reclamation, Jharia Coal Field (India). Bulletin of Environmental Contamination and Toxicology, 2018, 101, 604-610.	1.3	13
82	Risk assessment of potentially toxic elements in soils and vegetables around coal-fired thermal power plant: a case study of Dhanbad, India. Environmental Monitoring and Assessment, 2020, 192, 699.	1.3	13
83	Risks Assessment of Heavy Metal Pollution in Roadside Soil and Vegetation of National Highway Crossing through Industrial Area. Environmental Processes, 2020, 7, 1197-1220.	1.7	13
84	Effect of Fast-Growing Trees on Soil Properties and Carbon Storage in an Afforested Coal Mine Land (India). Minerals (Basel, Switzerland), 2020, 10, 840.	0.8	13
85	Bioassessment in the aquatic ecosystems of highly urbanized agglomeration in India: An application of physicochemical and macroinvertebrate-based indices. Ecological Indicators, 2020, 111, 106053.	2.6	13
86	Effect of invasive weed biochar amendment on soil enzymatic activity and respiration of coal mine spoil: a laboratory experiment study. Biochar, 2021, 3, 519-533.	6.2	13
87	Reclamation of industrial waste dump using grass-legume mixture: An experimental approach to combat land degradation. Ecological Engineering, 2022, 174, 106443.	1.6	13
88	Metal Accumulation Strategies of Emergent Plants in Natural Wetland Ecosystems Contaminated with Coke-Oven Effluent. Bulletin of Environmental Contamination and Toxicology, 2018, 101, 55-60.	1.3	12
89	Carbon bio-fixation, effect of physicochemical factors and carbon supply strategies by Nannochloropsis sp. using flue gas and fertilizer. Biomass and Bioenergy, 2019, 125, 95-104.	2.9	11
90	Nitrogen recovery in reclaimed mine soil under different amendment practices in tandem with legume and nonâ€legume revegetation: A review. Soil Use and Management, 2022, 38, 1113-1145.	2.6	11

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91	Invasive weedâ€based biochar facilitated the restoration of coal mine degraded land by modulating the enzyme activity and carbon sequestration. Restoration Ecology, 2023, 31, .	1.4	9
92	Ecology and Ecosystem in Mine-Degraded Land. , 2013, , 21-37.		8
93	Mycoremediation for Mine Site Rehabilitation. , 2018, , 233-260.		8
94	COMPARATIVE STUDY ON BIOACCUMULATION AND TRANSLOCATION OF METALS IN BERMUDA GRASS (CYNODON DACTYLON) NATURALLY GROWING ON FLY ASH LAGOON AND TOPSOIL. Applied Ecology and Environmental Research, 2016, 14, 1-12.	0.2	8
95	Eco-Restoration of Coal Mine Spoil: Biochar Application and Carbon Sequestration for Achieving UN Sustainable Development Goals 13 and 15. Land, 2021, 10, 1112.	1.2	8
96	Ecosystem restoration in India during the United Nations decade on ecosystem restoration: the way forward. Restoration Ecology, 2022, 30, .	1.4	8
97	Municipal and Industrial Wastewater Treatment Using Constructed Wetlands. Concepts and Strategies in Plant Sciences, 2020, , 329-367.	0.6	7
98	Plantâ€“soil interactions as a restoration tool. , 2020, , 689-730.		6
99	Bioaccessibilities and health risk assessment of heavy and trace elements in fish from an urban city, India. Human and Ecological Risk Assessment (HERA), 2021, 27, 50-70.	1.7	6
100	Selection of plant species for the reclamation of mine-degraded land in the Indian context. Land Contamination and Reclamation, 2007, 15, 55-65.	0.4	6
101	Energy Plantations, Medicinal and Aromatic Plants on Contaminated Soil. , 2016, , 29-47.		5
102	Evaluation of PAHs concentration and cancer risk assessment on human health in a roadside soil: A case study. Human and Ecological Risk Assessment (HERA), 2020, 26, 1042-1061.	1.7	5
103	Different Soil Factors Influencing Dehydrogenase Activity in Mine Degraded Landsâ€”State-of-Art Review. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	5
104	Techniques for Quantative Evaluation of Mine Site Reclamation Success. , 2018, , 415-438.		4
105	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. Environmental Science and Pollution Research, 2020, 27, 41914-41927.	2.7	4
106	Importance of selection of plant species for successful ecological restoration program in coal mine degraded land. , 2021, , 325-357.		4
107	Establishment of Grass and Legume Cover. , 2013, , 151-161.		3
108	Carbon Sequestration and Soil CO 2 Flux in Reclaimed Coal Mine LANDS From India. , 2018, , 371-392.		3

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109	Bioremediation of copper mine waste: a case study from Mosaboni copper mines, Eastern India. International Journal of Environment and Pollution, 2010, 43, 78.	0.2	2
110	Minesoil Properties Affecting Plant Establishment and Growth. , 2013, , 61-81.		2
111	Heavy metals distribution in Eucalyptus tree in 30 years old reclaimed overburden dumps. AIP Conference Proceedings, 2019, , .	0.3	2
112	Metal accumulation in naturally colonizing vegetation in abandoned Cu-tailings ponds at Rakha mines, East Singhbhum, Jharkhand, India. Land Contamination and Reclamation, 2008, 16, 135-153.	0.4	2
113	Brassica Juncea (L.) Czern. (Indian Mustard): A Potential Candidate for the Phytoremediation of Mercury from Soil. Lecture Notes in Civil Engineering, 2021, , 67-72.	0.3	2
114	Potential and prospects of weed plants in phytoremediation and eco-restoration of heavy metals polluted sites. , 2022, , 187-205.		2
115	Assessment of heavy metal contamination in roadside deposition soil along a busy traffic road: A case study. AIP Conference Proceedings, 2019, , .	0.3	1
116	Ecological restoration of waste dump generated from an integrated steel plant: A case study. , 2022, , 157-171.		1
117	Phytoremediation of fly ash: bioaccumulation and translocation of metals in natural colonizing vegetation on fly ash lagoons. , 2022, , 501-523.		1
118	Removal of heavy metals from coke-plant effluents by using wetlands. , 2021, , 263-299.		0
119	Grass-Legume Seeding: A Sustainable Approach Towards Reclamation of Coalmine Degraded Lands in India. , 0, , .		0
120	Impact of Climate Change on Functional Root-Derived Signals. Soil Biology, 2021, , 3-11.	0.6	0
121	Algae as Bio-monitors for Damodar River Water Pollution. Current World Environment Journal, 2015, 10, 941-950.	0.2	0
122	Treatment of Coke Oven Effluents by Duckweeds Ponds â€“ A Laboratory Scale Study. , 2016, , 435-439.		0
123	Quantitative study on the soil reconstruction of a root system in the coal resource-concentrated distribution of Shenfu mineral regions. , 2017, , 461-464.		0
124	Phytoremediation and environmental bioremediation. , 2022, , 1-18.		0