Meththika Vithanage

List of Publications by Year in Descending Order

231 papers	10,926 citations	50 h-index	99 g-index
253 ext. papers	13,982 ext. citations	7.2 avg, IF	6.85 L-index

#	Paper	IF	Citations
231	Generating alternative fuel and bioplastics from medical plastic waste and waste frying oil using microwave co-pyrolysis combined with microbial fermentation. *Renewable and Sustainable Energy Reviews*, **2022**, 153, 111790	16.2	2
230	Enhanced removal of ammonium from water using sulfonated reed waste biochar-A lab-scale investigation. *Environmental Pollution*, **2022**, 292, 118412	9.3	1
229	Multifunctional applications of biochar beyond carbon storage. *International Materials Reviews*, **2022**, 1-51	16.1	58
228	Adsorptive removal of fluoride using biochar □A potential application in drinking water treatment. *Separation and Purification Technology*, **2022**, 278, 119106	8.3	8
227	Progress and prospects in mitigation of landfill leachate pollution: Risk, pollution potential, treatment and challenges. *Journal of Hazardous Materials*, **2022**, 421, 126627	12.8	20
226	Ecological Effects of Chemical Contaminants Adsorbed to Microplastics **2022**, 1019-1048		
225	Fate and Behavior of Microplastics in Freshwater Systems **2022**, 781-811		
224	Recognizing the groundwater related to chronic kidney disease of unknown etiology by humic-like organic matter. *Npj Clean Water*, **2022**, 5,	11.2	1
223	Retention of sulfamethoxazole by cinnamon wood biochar and its efficacy of reducing bioavailability and plant uptake in soil.. *Chemosphere*, **2022**, 134073	8.4	1
222	Colloidal biochar for enhanced adsorption of antibiotic ciprofloxacin in aqueous and synthetic hydrolyzed human urine matrices.. *Chemosphere*, **2022**, 297, 133984	8.4	0
221	Nitrogen transformation in slightly polluted surface water by a novel biofilm reactor: Long-term performance and microbial population characteristics.. *Science of the Total Environment*, **2022**, 154623	10.2	0
220	Unprecedented marine microplastic contamination from the Xpress Pearl container vessel disaster.. *Science of the Total Environment*, **2022**, 154374	10.2	2
219	Amino-functionalized biochars for the detoxification and removal of hexavalent chromium in aqueous media.. *Environmental Research*, **2022**, 211, 113073	7.9	2
218	Lead time of early warning by wastewater surveillance for COVID-19: geographical variations and impacting factors.. *Chemical Engineering Journal*, **2022**, 135936	14.7	4
217	Phytoremediation prospects of per- and poly-fluoroalkyl substances: A review.. *Environmental Research*, **2022**, 113311	7.9	0
216	Biofilm formation and its implications on the properties and fate of microplastics in aquatic environments: A review. *Journal of Hazardous Materials Advances*, **2022**, 6, 100077		0
215	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. *Bioresource Technology*, **2022**, 355, 127303	11	2

214	Influence of biochar on soil biology in the charosphere **2022**, 273-291		0
213	Deposition of trace metals associated with atmospheric particulate matter: Environmental fate and health risk assessment. *Chemosphere*, **2022**, 135051	8.4	0
212	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. *Environmental Pollution*, **2021**, 293, 118564	9.3	7
211	Harnessing biofertilizer from human urine via chemogenic and biogenic routes: Synthesis, characterization and agronomic application. *Environmental Technology and Innovation*, **2021**, 25, 102152	7	1
210	Multiphase Volatilization of Halogens at the Soil-Atmosphere Interface on Mars. *Journal of Geophysical Research E: Planets*, **2021**, 126, e2021JE006929	4.1	0
209	A systematic review on adsorptive removal of hexavalent chromium from aqueous solutions: Recent advances. *Science of the Total Environment*, **2021**, 809, 152055	10.2	5
208	Biochar amalgamation with clay: Enhanced performance for environmental remediation. *Advances in Chemical Pollution, Environmental Management and Protection*, **2021**, 7, 1-37	1.5	
207	Indoor Particulate Matter in Urban Households: Sources, Pathways, Characteristics, Health Effects, and Exposure Mitigation. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	3
206	Effect of acid modified tea-waste biochar on crop productivity of red onion (Allium cepa L.). *Chemosphere*, **2021**, 132551	8.4	2
205	Antimony contamination and its risk management in complex environmental settings: A review. *Environment International*, **2021**, 158, 106908	12.9	16
204	Immobilization and retention of caffeine in soil amended with Ulva reticulata biochar. *Journal of Environmental Management*, **2021**, 281, 111852	7.9	5
203	Drought in South Asia: A Review of Drought Assessment and Prediction in South Asian Countries. *Atmosphere*, **2021**, 12, 369	2.7	14
202	Efficacy of agricultural waste derived biochar for arsenic removal: Tackling water quality in the Indo-Gangetic plain. *Journal of Environmental Management*, **2021**, 281, 111814	7.9	18
201	Effect of traffic congestion and vegetation on airborne bacteria in a city of a developing country. *Air Quality, Atmosphere and Health*, **2021**, 14, 1103-1116	5.6	1
200	Carbon sequestration value of biosolids applied to soil: A global meta-analysis. *Journal of Environmental Management*, **2021**, 284, 112008	7.9	6
199	Computational and experimental assessment of pH and specific ions on the solute solvent interactions of clay-biochar composites towards tetracycline adsorption: Implications on wastewater treatment. *Journal of Environmental Management*, **2021**, 283, 111989	7.9	12
198	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. *Environment International*, **2021**, 149, 106367	12.9	74
197	Weathering of microplastics and interaction with other coexisting constituents in terrestrial and aquatic environments. *Water Research*, **2021**, 196, 117011	12.5	51

196	Abstraction of nitrates and phosphates from water by sawdust- and rice husk-derived biochars: Their potential as N- and P-loaded fertilizer for plant productivity in nutrient deficient soil. *Journal of Analytical and Applied Pyrolysis*, **2021**, 155, 105073	6	7
195	Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review. *Environmental Research*, **2021**, 197, 111091	7.9	10
194	Ethylbenzene and toluene interactions with biochar from municipal solid waste in single and dual systems. *Environmental Research*, **2021**, 197, 111102	7.9	3
193	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. *Renewable and Sustainable Energy Reviews*, **2021**, 145, 111029	16.2	24
192	Pharmaceutical and Personal Care Products (PPCPs) in the environment: Plant uptake, translocation, bioaccumulation, and human health risks. *Critical Reviews in Environmental Science and Technology*, **2021**, 51, 1221-1258	11.1	30
191	Biomass valorization and phytoremediation as integrated Technology for Municipal Solid Waste Management for developing economic context. *Biomass Conversion and Biorefinery*, **2021**, 11, 363-382	2.3	4
190	Functionalizing non-smectic clay via methoxy-modification for enhanced removal and recovery of oxytetracycline from aqueous media. *Chemosphere*, **2021**, 276, 130079	8.4	8
189	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. *Bioresource Technology*, **2021**, 334, 125240	11	18
188	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. *Journal of Hazardous Materials*, **2021**, 416, 125702	12.8	14
187	Co-hydrothermal carbonization of swine and chicken manure: Influence of cross-interaction on hydrochar and liquid characteristics. *Science of the Total Environment*, **2021**, 786, 147381	10.2	9
186	Remediation of soils and sediments polluted with polycyclic aromatic hydrocarbons: To immobilize, mobilize, or degrade?. *Journal of Hazardous Materials*, **2021**, 420, 126534	12.8	36
185	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. *Environment International*, **2021**, 155, 106600	12.9	17
184	Mechanistic interaction of ciprofloxacin on zeolite modified seaweed (Sargassum crassifolium) derived biochar: Kinetics, isotherm and thermodynamics. *Chemosphere*, **2021**, 281, 130676	8.4	14
183	Risk factors for endemic chronic kidney disease of unknown etiology in Sri Lanka: Retrospect of water security in the dry zone. *Science of the Total Environment*, **2021**, 795, 148839	10.2	2
182	Propensity and appraisal of biochar performance in removal of oil spills: A comprehensive review. *Environmental Pollution*, **2021**, 288, 117676	9.3	9
181	From mine to mind and mobiles - Lithium contamination and its risk management. *Environmental Pollution*, **2021**, 290, 118067	9.3	4
180	Compost as a carrier for microplastics and plastic-bound toxic metals into agroecosystems. *Current Opinion in Environmental Science and Health*, **2021**, 24, 100297	8.1	6
179	A review on water governance in Sri Lanka: the lessons learnt for future water policy formulation. *Water Policy*, **2021**, 23, 255-273	1.6	4

178	Animal carcass burial management: implications for sustainable biochar use.. *Applied Biological Chemistry*, **2021**, 64, 91	2.9	
177	Implications of layered double hydroxides assembled biochar composite in adsorptive removal of contaminants: Current status and future perspectives. *Science of the Total Environment*, **2020**, 737, 139718	10.2	25
176	A review on design, material selection, mechanism, and modelling of permeable reactive barrier for community-scale groundwater treatment. *Environmental Technology and Innovation*, **2020**, 19, 100917	7	19
175	Adsorptive interaction of antibiotic ciprofloxacin on polyethylene microplastics: Implications for vector transport in water. *Environmental Technology and Innovation*, **2020**, 19, 100971	7	44
174	Microbe mediated immobilization of arsenic in the rice rhizosphere after incorporation of silica impregnated biochar composites. *Journal of Hazardous Materials*, **2020**, 398, 123096	12.8	23
173	Biochar-mediated soils for efficient use of agrochemicals **2020**, 621-645		1
172	Sorption and desorption of agro-pesticides in soils **2020**, 189-205		9
171	Caffeine removal by Gliricidia sepium biochar: Influence of pyrolysis temperature and physicochemical properties. *Environmental Research*, **2020**, 189, 109865	7.9	29
170	Anammox, biochar column and subsurface constructed wetland as an integrated system for treating municipal solid waste derived landfill leachate from an open dumpsite. *Environmental Research*, **2020**, 189, 109880	7.9	14
169	Phytoremediation of fluoride from the environmental matrices: A review on its application strategies. *Groundwater for Sustainable Development*, **2020**, 10, 100349	6	9
168	Impact of agrochemicals on soil health **2020**, 161-187		18
167	Potential of biochar and organic amendments for reclamation of coastal acidic-salt affected soil. *Biochar*, **2020**, 2, 107-120	10	23
166	Exploration of an Extracellular Polymeric Substance from Earthworm Gut Bacterium (Bacillus licheniformis) for Bioflocculation and Heavy Metal Removal Potential. *Applied Sciences (Switzerland)*, **2020**, 10, 349	2.6	27
165	Engineered tea-waste biochar for the removal of caffeine, a model compound in pharmaceuticals and personal care products (PPCPs), from aqueous media. *Environmental Technology and Innovation* , **2020**, 19, 100847	7	36
164	Ecological Effects of Chemical Contaminants Adsorbed to Microplastics **2020**, 1-31		
163	Reclamation of Salt-Affected Soils **2020**, 183-199		
162	Status of Particulate Marine Plastics in Sri Lanka **2020**, 297-326		
161	Fate and Behavior of Microplastics in Freshwater Systems **2020**, 1-31		

160	E-waste as a challenge for public and ecosystem health **2020**, 101-117		1
159	Phytoremediation for E-waste contaminated sites **2020**, 141-170		4
158	Urban mining of E-waste: treasure hunting for precious nanometals **2020**, 19-54		7
157	Electrochemical enhanced metal extraction from E-waste **2020**, 119-139		3
156	Green synthesis of graphitic nanobiochar for the removal of emerging contaminants in aqueous media. *Science of the Total Environment*, **2020**, 706, 135725	10.2	33
155	Biochar based sorptive remediation of steroidal estrogen contaminated aqueous systems: A critical review. *Environmental Research*, **2020**, 191, 110183	7.9	13
154	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment.. *Journal of Hazardous Materials Letters*, **2020**, 1, 100001	3.3	23
153	Nanobiochar: production, properties, and multifunctional applications. *Environmental Science: Nano* , **2020**, 7, 3279-3302	7.1	29
152	Macro, colloidal and nanobiochar for oxytetracycline removal in synthetic hydrolyzed human urine. *Environmental Pollution*, **2020**, 267, 115683	9.3	14
151	Making Waves Perspectives of Modelling and Monitoring of SARS-CoV-2 in Aquatic Environment for COVID-19 Pandemic. *Current Pollution Reports*, **2020**, 6, 1-12	7.6	14
150	Hydrometallurgical processes for heavy metals recovery from industrial sludges. *Critical Reviews in Environmental Science and Technology*, **2020**, 1-41	11.1	19
149	Microwave and open vessel digestion methods for biochar. *Chemosphere*, **2020**, 239, 124788	8.4	10
148	Halloysite nanoclay supported adsorptive removal of oxytetracycline antibiotic from aqueous media. *Journal of Hazardous Materials*, **2020**, 384, 121301	12.8	29
147	Clay-polymer nanocomposites: Progress and challenges for use in sustainable water treatment. *Journal of Hazardous Materials*, **2020**, 383, 121125	12.8	77
146	Floating duckweed mitigated ammonia volatilization and increased grain yield and nitrogen use efficiency of rice in biochar amended paddy soils. *Chemosphere*, **2019**, 237, 124532	8.4	19
145	Heavy metal dissolution mechanisms from electrical industrial sludge. *Science of the Total Environment*, **2019**, 696, 133922	10.2	7
144	Hexavalent chromium removal from water by microalgal-based materials: Adsorption, desorption and recovery studies. *Bioresource Technology*, **2019**, 293, 122064	11	53
143	The influence of three acid modifications on the physicochemical characteristics of tea-waste biochar pyrolyzed at different temperatures: a comparative study.. *RSC Advances*, **2019**, 9, 17612-17622	3.7	46

142	Influence of soil water content and soil amendments on trace metal release and seedling growth in serpentine soil. *Journal of Soils and Sediments*, **2019**, 19, 3908-3921	3.4	2
141	A critical prospective analysis of the potential toxicity of trace element regulation limits in soils worldwide: Are they protective concerning health risk assessment? - A review. *Environment International*, **2019**, 127, 819-847	12.9	160
140	Modification of biochar properties using CO2. *Chemical Engineering Journal*, **2019**, 372, 383-389	14.7	58
139	Sustainable sludge management by removing emerging contaminants from urban wastewater using carbon nanotubes **2019**, 553-571		7
138	Sorptive removal of pharmaceutical and personal care products from water and wastewater **2019**, 213-238		10
137	Hydrometallurgical Recovery of Metals From E-waste **2019**, 225-246		16
136	South Asian perspective on temperature and rainfall extremes: A review. *Atmospheric Research*, **2019**, 225, 110-120	5.4	28
135	Clay-biochar composites for sorptive removal of tetracycline antibiotic in aqueous media. *Journal of Environmental Management*, **2019**, 238, 315-322	7.9	94
134	Biochar from municipal solid waste for resource recovery and pollution remediation. *Environmental Chemistry Letters*, **2019**, 17, 1225-1235	13.3	47
133	Sorptive removal of toluene and m-xylene by municipal solid waste biochar: Simultaneous municipal solid waste management and remediation of volatile organic compounds. *Journal of Environmental Management*, **2019**, 238, 323-330	7.9	30
132	Biochar-based engineered composites for sorptive decontamination of water: A review. *Chemical Engineering Journal*, **2019**, 372, 536-550	14.7	157
131	Biochar versus bone char for a sustainable inorganic arsenic mitigation in water: What needs to be done in future research?. *Environment International*, **2019**, 127, 52-69	12.9	58
130	Soil lead immobilization by biochars in short-term laboratory incubation studies. *Environment International*, **2019**, 127, 190-198	12.9	54
129	Municipal solid waste biochar-bentonite composite for the removal of antibiotic ciprofloxacin from aqueous media. *Journal of Environmental Management*, **2019**, 236, 428-435	7.9	51
128	Transgenic Plants **2019**, 89-102		13
127	Occurrence and cycling of trace elements in ultramafic soils and their impacts on human health: A critical review. *Environment International*, **2019**, 131, 104974	12.9	27
126	Sorption process of municipal solid waste biochar-montmorillonite composite for ciprofloxacin removal in aqueous media. *Chemosphere*, **2019**, 236, 124384	8.4	65
125	Clay-biochar composite for arsenic removal from aqueous media **2019**, 437-438		

124	Acid induced arsenic removal from soil amended with clay-biochar composite **2019**, 561-562		
123	Performance of metal-organic frameworks for the adsorptive removal of potentially toxic elements in a water system: a critical review.. *RSC Advances*, **2019**, 9, 34359-34376	3.7	52
122	Biochar for Sustainable Agriculture **2019**, 211-224		4
121	Potential toxicity of trace elements and nanomaterials to Chinese cabbage in arsenic- and lead-contaminated soil amended with biochars. *Environmental Geochemistry and Health*, **2019**, 41, 1777-1791	4.7	15
120	Heavy metal-induced oxidative stress on seed germination and seedling development: a critical review. *Environmental Geochemistry and Health*, **2019**, 41, 1813-1831	4.7	78
119	Mechanistic understanding of crystal violet dye sorption by woody biochar: implications for wastewater treatment. *Environmental Geochemistry and Health*, **2019**, 41, 1647-1661	4.7	49
118	Municipal solid waste-derived biochar for the removal of benzene from landfill leachate. *Environmental Geochemistry and Health*, **2019**, 41, 1739-1753	4.7	21
117	Soil Enzyme Activities in Waste Biochar Amended Multi-Metal Contaminated Soil; Effect of Different Pyrolysis Temperatures and Application Rates. *Communications in Soil Science and Plant Analysis*, **2018**, 49, 635-643	1.5	17
116	Trace element dynamics of biosolids-derived microbeads. *Chemosphere*, **2018**, 199, 331-339	8.4	40
115	Influence of bioenergy waste biochar on proton- and ligand-promoted release of Pb and Cu in a shooting range soil. *Science of the Total Environment*, **2018**, 625, 547-554	10.2	21
114	Thiolated arsenic in natural systems: What is current, what is new and what needs to be known. *Environment International*, **2018**, 115, 370-386	12.9	32
113	Municipal Waste Biochar for Energy and Pollution Remediation. *Environmental Chemistry for A Sustainable World*, **2018**, 227-252	0.8	5
112	Application of Geospatial Techniques for Groundwater Quality and Availability Assessment: A Case Study in Jaffna Peninsula, Sri Lanka. *ISPRS International Journal of Geo-Information*, **2018**, 7, 20	2.9	27
111	Potential application of selected metal resistant phosphate solubilizing bacteria isolated from the gut of earthworm (Metaphire posthuma) in plant growth promotion. *Geoderma*, **2018**, 330, 117-124	6.7	49
110	Overview Scheme for Nickel Removal and Recovery from Wastes **2018**, 319-340		4
109	Aging Effects of Organic and Inorganic Fertilizers on Phosphorus Fractionation in a Calcareous Sandy Loam Soil. *Pedosphere*, **2018**, 28, 873-883	5	21
108	Five Decadal Trends in Averages and Extremes of Rainfall and Temperature in Sri Lanka. *Advances in Meteorology*, **2018**, 2018, 1-13	1.7	20
107	Exploring potential applications of a novel extracellular polymeric substance synthesizing bacterium (Bacillus licheniformis) isolated from gut contents of earthworm (Metaphire posthuma) in environmental remediation. *Biodegradation*, **2018**, 29, 323-337	4.1	18

106	Health risk assessment of heavy metals in atmospheric deposition in a congested city environment in a developing country: Kandy City, Sri Lanka. *Journal of Environmental Management*, **2018**, 220, 198-206	7.9	38
105	Bioenergy-derived waste biochar for reducing mobility, bioavailability, and phytotoxicity of chromium in anthropized tannery soil. *Journal of Soils and Sediments*, **2017**, 17, 731-740	3.4	32
104	Role of woody biochar and fungal-bacterial co-inoculation on enzyme activity and metal immobilization in serpentine soil. *Journal of Soils and Sediments*, **2017**, 17, 665-673	3.4	60
103	Medical geology in the framework of the sustainable development goals. *Science of the Total Environment*, **2017**, 581-582, 87-104	10.2	57
102	Microorganisms and heavy metals associated with atmospheric deposition in a congested urban environment of a developing country: Sri Lanka. *Science of the Total Environment*, **2017**, 584-585, 803-812	10.2	31
101	Role of Biosurfactants on Microbial Degradation of Oil-Contaminated Soils **2017**, 165-181		2
100	Role of Rhizospheric Microbes in Heavy Metal Uptake by Plants **2017**, 147-163		12
99	Antimony as a global dilemma: Geochemistry, mobility, fate and transport. *Environmental Pollution*, **2017**, 223, 545-559	9.3	213
98	Biochar, a potential hydroponic growth substrate, enhances the nutritional status and growth of leafy vegetables. *Journal of Cleaner Production*, **2017**, 156, 581-588	10.3	55
97	Isolation, purification and analysis of dissolved organic carbon from Gohagoda uncontrolled open dumpsite leachate, Sri Lanka. *Environmental Technology (United Kingdom)*, **2017**, 38, 1610-1618	2.6	3
96	Contrasting effects of engineered carbon nanotubes on plants: a review. *Environmental Geochemistry and Health*, **2017**, 39, 1421-1439	4.7	69
95	Medical geology of endemic goiter in Kalutara, Sri Lanka; distribution and possible causes. *Environmental Geochemistry and Health*, **2017**, 39, 1501-1511	4.7	1
94	Effects of carbon nanotube and biochar on bioavailability of Pb, Cu and Sb in multi-metal contaminated soil. *Environmental Geochemistry and Health*, **2017**, 39, 1409-1420	4.7	34
93	Phytoremediation of Landfill Leachates **2017**, 439-467		2
92	Biochar-based constructed wetlands to treat reverse osmosis rejected concentrates in chronic kidney disease endemic areas in Sri Lanka. *Environmental Geochemistry and Health*, **2017**, 39, 1397-1407	4.7	7
91	Influence of Gliricidia sepium Biochar on Attenuate Perchlorate-Induced Heavy Metal Release in Serpentine Soil. *Journal of Chemistry*, **2017**, 2017, 1-8	2.3	11
90	The impact of biosolids application on organic carbon and carbon dioxide fluxes in soil. *Chemosphere*, **2017**, 189, 565-573	8.4	24
89	Biochar based removal of antibiotic sulfonamides and tetracyclines in aquatic environments: A critical review. *Bioresource Technology*, **2017**, 246, 150-159	11	291

88	Biochars Influence as a Soil Amendment for Essential Plant Nutrient Uptake **2017**, 47-67		3
87	Application of graphene for decontamination of water; Implications for sorptive removal. *Groundwater for Sustainable Development*, **2017**, 5, 206-215	6	44
86	Applications of biochar in redox-mediated reactions. *Bioresource Technology*, **2017**, 246, 271-281	11	218
85	Insights into aqueous carbofuran removal by modified and non-modified rice husk biochars. *Environmental Science and Pollution Research*, **2017**, 24, 22755-22763	5.1	25
84	Phytotoxicity attenuation in Vigna radiata under heavy metal stress at the presence of biochar and N fixing bacteria. *Journal of Environmental Management*, **2017**, 186, 293-300	7.9	43
83	Efficacy of woody biomass and biochar for alleviating heavy metal bioavailability in serpentine soil. *Environmental Geochemistry and Health*, **2017**, 39, 391-401	4.7	50
82	Interaction of arsenic with biochar in soil and water: A critical review. *Carbon*, **2017**, 113, 219-230	10.4	200
81	Advances and future directions of biochar characterization methods and applications. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 2275-2330	11.1	128
80	**2017**,		2
79	Equilibrium and kinetic mechanisms of woody biochar on aqueous glyphosate removal. *Chemosphere*, **2016**, 144, 2516-21	8.4	115
78	Biochar for Waste Management and Environmental Sustainability **2016**, 273-291		4
77	Modeling of Pb(II) adsorption by a fixed-bed column. *Bioremediation Journal*, **2016**, 20, 194-208	2.3	8
76	Interface interactions between insecticide carbofuran and tea waste biochars produced at different pyrolysis temperatures. *Chemical Speciation and Bioavailability*, **2016**, 28, 110-118		29
75	Sorption Process of Date Palm Biochar for Aqueous Cd (II) Removal: Efficiency and Mechanisms. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	42
74	Phytoremediation of Shooting Range Soils **2016**, 469-488		6
73	Perchlorate mobilization of metals in serpentine soils. *Applied Geochemistry*, **2016**, 74, 203-209	3.5	9
72	Iodine in commercial edible iodized salts and assessment of iodine exposure in Sri Lanka. *Archives of Public Health*, **2016**, 74, 21	2.6	5
71	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. *Chemosphere*, **2016**, 148, 276-91	8.4	703

70	Adsorption of Cd2+ and Pb2+ onto coconut shell biochar and biochar-mixed soil. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	41
69	Mechanistic modeling of glyphosate interaction with rice husk derived engineered biochar. *Microporous and Mesoporous Materials*, **2016**, 225, 280-288	5.3	77
68	Steam activation of biochars facilitates kinetics and pH-resilience of sulfamethazine sorption. *Journal of Soils and Sediments*, **2016**, 16, 889-895	3.4	37
67	Perchlorate as an emerging contaminant in soil, water and food. *Chemosphere*, **2016**, 150, 667-677	8.4	63
66	Development and optimization of Ti/Cu cathode and Ti/IrO2 anode for electrochemical denitrification. *Desalination and Water Treatment*, **2016**, 57, 19025-19037		1
65	Kinetics, thermodynamics and mechanistic studies of carbofuran removal using biochars from tea waste and rice husks. *Chemosphere*, **2016**, 150, 781-789	8.4	127
64	Heavy Metal Uptake and Tolerance Mechanisms of Serpentine Flora: Implications for Phytoremediation **2016**, 439-452		
63	Phytoremediation of Polycyclic Aromatic Hydrocarbons (PAHs) in Urban Atmospheric Deposition Using Bio-retention Systems **2016**, 91-115		
62	Interaction of arsenic with biochar in soil. *Arsenic in the Environment Proceedings*, **2016**, 596-598		
61	Geochemical processes for mobilization of arsenic in groundwater. *Arsenic in the Environment Proceedings*, **2016**, 23-24		
60	Insights into Starch Coated Nanozero Valent Iron-Graphene Composite for Cr(VI) Removal from Aqueous Medium. *Journal of Nanomaterials*, **2016**, 2016, 1-10	3.2	13
59	Plant growth promotion by Bradyrhizobium japonicum under heavy metal stress. *South African Journal of Botany*, **2016**, 105, 19-24	2.9	35
58	Natural Arsenic in Global Groundwaters: Distribution and Geochemical Triggers for Mobilization. *Current Pollution Reports*, **2016**, 2, 68-89	7.6	123
57	Characterizing volatile organic compounds in leachate from Gohagoda municipal solid waste dumpsite, Sri Lanka. *Groundwater for Sustainable Development*, **2016**, 2-3, 1-6	6	10
56	Utilization of Biowaste for Mine Spoil Rehabilitation. *Advances in Agronomy*, **2016**, 138, 97-173	7.7	24
55	Bio-retention Systems for Storm Water Treatment and Management in Urban Systems **2016**, 175-200		1
54	Mechanisms of antimony adsorption onto soybean stover-derived biochar in aqueous solutions. *Journal of Environmental Management*, **2015**, 151, 443-9	7.9	71
53	A preliminary study of the role of bacterial–fungal co-inoculation on heavy metal phytotoxicity in serpentine soil. *Australian Journal of Botany*, **2015**, 63, 261	1.2	16

52	Leachate plume delineation and lithologic profiling using surface resistivity in an open municipal solid waste dumpsite, Sri Lanka. *Environmental Technology (United Kingdom)*, **2015**, 36, 2936-43	2.6	7
51	Phytoremediation in Constructed Wetlands **2015**, 243-263		8
50	Enhanced sulfamethazine removal by steam-activated invasive plant-derived biochar. *Journal of Hazardous Materials*, **2015**, 290, 43-50	12.8	226
49	The role of biochar, natural iron oxides, and nanomaterials as soil amendments for immobilizing metals in shooting range soil. *Environmental Geochemistry and Health*, **2015**, 37, 931-42	4.7	88
48	A Novel Microbial Biofilm for Bioremoval of Nickel from Aqueous Media. *Bioremediation Journal*, **2015**, 19, 239-248	2.3	3
47	Biochar production from date palm waste: Charring temperature induced changes in composition and surface chemistry. *Journal of Analytical and Applied Pyrolysis*, **2015**, 115, 392-400	6	152
46	Immobilization and phytotoxicity reduction of heavy metals in serpentine soil using biochar. *Journal of Soils and Sediments*, **2015**, 15, 126-138	3.4	113
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