Trace metal behaviour in estuarine and riverine floodplain soils and sediments: a review

DOI: 10.1016/j.scitotenv.2008.07.025
Science of the Total Environment, 2009, 407, 3972-85.

#	Paper	IF	Citations
871	Rates of biogeochemical phosphorus and copper redistribution in young floodplain soils. **2009**, 6, 2949-2956		6
870	Effects of willow stands on heavy metal concentrations and top soil properties of infrastructure spoil landfills and dredged sediment-derived sites. *Science of the Total Environment*, **2009**, 407, 5289-97	10.2	16
869	Effect of Water Table Level on Metal Mobility at Different Depths in Wetland Soils of the Scheldt Estuary (Belgium). **2009**, 202, 353-367		39
868	Phytoremediation as a management option for contaminated sediments in tidal marshes, flood control areas and dredged sediment landfill sites. *Environmental Science and Pollution Research*, **2009**, 16, 745-64	5.1	69
867	Contamination Level and Speciation of Heavy Metals in Sediments from Yundang Lake, Xiamen. **2009**,		
866	Mercury Volatilization from Three Floodplain Soils at the Central Elbe River, Germany. **2009**, 18, 429-444		33
865	How do long-term development and periodical changes of river-floodplain systems affect the fate of contaminants? Results from European rivers. *Environmental Pollution*, **2009**, 157, 3336-46	9.3	53
864	PALEOENVIRONMENTAL CONTROLS ON THE TEXTURE AND CHEMICAL COMPOSITION OF PYRITE FROM NON-CONGLOMERATIC SEDIMENTARY ROCKS OF THE MESOARCHEAN WITWATERSRAND SUPERGROUP, SOUTH AFRICA. **2010**, 113, 195-228		47
863	Heavy metals in sediments from constructed wetlands treating municipal wastewater. **2010**, 101, 335-356		29
862	Analysis of major and trace elements by INAA to predict the thousands year old sediment deposition environment in the Meghna river delta. **2010**, 283, 347-352		2
861	Dissolved Inorganic Contaminants in a Floodplain Soil: Comparison of In Situ Soil Solutions and Laboratory Methods. **2010**, 209, 489-500		33
860	Mercury concentrations in wetlands associated with coal-fired power plants. **2010**, 19, 306-16		9
859	Evaluation of the potential of the common cockle (Cerastoderma edule L.) for the ecological risk assessment of estuarine sediments: bioaccumulation and biomarkers. **2010**, 19, 1496-512		17
858	Dynamics of mercury fluxes and their controlling factors in large Hg-polluted floodplain areas. *Environmental Pollution*, **2010**, 158, 308-18	9.3	67
857	Exposure of an anoxic and contaminated canal sediment: mobility of metal(loid)s. *Environmental Pollution*, **2010**, 158, 649-57	9.3	23
856	Influence of flooding and metal immobilising soil amendments on availability of metals for willows and earthworms in calcareous dredged sediment-derived soils. *Environmental Pollution*, **2010**, 158, 2181-8	9.3	14
855	Metal availability in a highly contaminated, dredged-sediment disposal site: field measurements and geochemical modeling. *Environmental Pollution*, **2010**, 158, 2857-64	9.3	21

854	The distribution, enrichment and source of potential harmful elements in surface sediments of Bohai Bay, North China. *Journal of Hazardous Materials*, **2010**, 183, 155-64	12.8	66
853	A scale-dependent approach to study pollution control processes in wetland soils using three different techniques. **2010**, 36, 1439-1447		38
852	Long-Term Performance of a Constructed Wetland for Metal Removal. **2010**, 19, 667-685		14
851	Total mercury distribution in sediment cores from Kuwait Bay. **2010**, 67, 505-513		3
850	Factors Affecting Metal Mobilisation During Oxidation of Sulphidic, Sandy Wetland Substrates. **2010**, 287-297		
849	Mitigating Nonpoint Source Pollution in Agriculture with Constructed and Restored Wetlands. **2010** , 108, 1-76		67
848	Distribution, sources, and behavior of trace elements in the Clinton River Watershed, Michigan. **2010**, 36, 606-617		4
847	Which processes prevail?. **2010**, 158, 412-420		14
846	Heavy metals in water, soils and plants in riparian wetlands in the Pearl River Estuary, South China. **2010**, 2, 1344-1354		57
845	On metal diagenesis in contaminated sediments of the Deûle river (northern France). **2010**, 25, 1361-1373		47
844	Rhizosphere and flooding regime as key factors for the mobilisation of arsenic and potentially harmful metals in basic, mining-polluted salt marsh soils. **2010**, 25, 1722-1733		26
843	Study on soil bio-remediaton for preventing groundwater contamination of chromium bearing leather processing waste dumping sites. **2010**,		
842	Heavy metals in Phalaris arundinacea growing in a constructed wetland treating municipal sewage. **2011**, 91, 753-767		6
841	Role of Aquatic Macrophytes in Biogeochemical Cycling of Heavy Metals, Relevance to Soil-Sediment Continuum Detoxification and Ecosystem Health. **2011**, 345-368		5
840	Redox Metal Processes and Controls in Estuaries. **2011**, 115-141		4
839	Trace Metal(loid)s (As, Cd, Cu, Hg, Pb, PGE, Sb, and Zn) and Their Species. **2011**, 31-57		3
838	Water and Nutrient Management in Natural and Constructed Wetlands. **2011**,		3
837	Detoxification of Heavy Metals. **2011**,		8

836	Controlled variation of redox conditions in a floodplain soil: Impact on metal mobilization and biomethylation of arsenic and antimony. **2011**, 160, 414-424		276
835	Luvisolic soils of Canada: Genesis, distribution, and classification. **2011**, 91, 781-806		35
834	Accumulation of metals in Anguilla anguilla from the Tagus estuary and relationship to environmental contamination. **2011**, 27, 1265-1271		9
833	Influence of soil properties on trace element availability and plant accumulation in a Mediterranean salt marsh polluted by mining wastes: implications for phytomanagement. *Science of the Total Environment*, **2011**, 409, 4470-9	10.2	50
832	Heavy metal distribution of natural and reclaimed tidal riparian wetlands in south estuary, China. **2011**, 23, 1937-46		40
831	The influence of pH and organic matter content in paddy soil on heavy metal availability and their uptake by rice plants. *Environmental Pollution*, **2011**, 159, 84-91	9.3	737
830	Assessment of heavy metal pollution in wetland soils from the young and old reclaimed regions in the Pearl River Estuary, South China. *Environmental Pollution*, **2011**, 159, 817-24	9.3	328
829	Planting woody crops on dredged contaminated sediment provides both positive and negative effects in terms of remediation. *Environmental Pollution*, **2011**, 159, 3416-24	9.3	11
828	The behavior of heavy metals in tidal flat sediments during fresh water leaching. *Chemosphere*, **2011**, 82, 834-8	8.4	31
827	The role of organic acids in assisted phytoremediation processes of salt marsh sediments. **2011**, 674, 169-177		25
826	Metals in Waters and Sediments of the Morrocoy National Park, Venezuela: Increased Contamination Levels of Cadmium over Time. **2011**, 214, 609-621		8
825	Variations of Metal Availability and Bio-accessibility in Water-Logged Soils with Various Metal Contents: In Vitro Experiments. **2011**, 217, 149-156		6
824	Distribution of Metals in Vadose Zone of the Alluvial Plain in a Mining Creek Inferred from Geochemical, Mineralogical and Geophysical Studies: The Beal Wadi Case (Cartagena□la Union Mining District, SE Spain). **2011**, 221, 45-61		6
823	The effect of waste water treatment on river metal concentrations: removal or enrichment?. **2011**, 11, 364-372		22
822	Impact of controlled redox conditions on nickel in a serpentine soil. **2011**, 11, 406-415		57
821	Mobilisation of AS and trace metals in saline, acidic Sopolic Technosols: the role of the rhizosphere and flooding conditions. **2011**, 11, 800-814		12
820	Release of dissolved trace metals and organic contaminants during deep water disposal of contaminated sediments from Oslo harbour, Norway. **2011**, 11, 1477-1489		7
819	Scale-Dependent Variability of As and Heavy Metals in a River Elbe Floodplain. **2011**, 39, 328-337		20

818	Effects of rice straw ash amendment on Cu solubility and distribution in flooded rice paddy soils. *Journal of Hazardous Materials*, **2011**, 186, 1801-7	12.8	61
817	Release of Dissolved Cadmium and Sulfur Nanoparticles from Oxidizing Sulfide Minerals. **2011**, 75, 842-854		11
816	Bio-Geo Interactions in Metal-Contaminated Soils. **2012**,		5
815	Soil-ecological evaluation of willows in a floodplain. **2012**, 175, 245-252		7
814	Assessment of the spatial distributions of total- and methyl-mercury and their relationship to sediment geochemistry from a whole-lake perspective. **2012**, 117, n/a-n/a		9
813	The effects of resuspension on the fate of Hg in contaminated sediments (Marano and Grado Lagoon, Italy): Short-term simulation experiments. **2012**, 113, 32-40		23
812	Clay mineralogy, grain size distribution and their correlations with trace metals in the salt marsh sediments of the Skallingen barrier spit, Danish Wadden Sea. **2012**, 67, 759-769		14
811	Trace element reactivity in FeS-rich estuarine sediments: influence of formation environment and acid sulfate soil drainage. *Science of the Total Environment*, **2012**, 438, 463-76	10.2	31
810	Laboratory and field evaluation of diffusive gradient in thin films (DGT) for monitoring levels of dissolved mercury in natural river water. **2012**, 92, 1689-1698		28
809	Measurement of Acid Volatile Sulphide and Simultaneously Extracted Metals in Sediment from Lake Albufera (Valencia, Spain). **2012**, 21, 176-191		10
808	Fractions and background concentrations of potentially toxic elements in Hungarian surface soils. **2012**, 184, 7461-71		17
807	Potential release of selected trace elements (As, Cd, Cu, Mn, Pb and Zn) from sediments in Cam River-mouth (Vietnam) under influence of pH and oxidation. *Science of the Total Environment*, **2012**, 435-436, 487-98	10.2	62
806	Sustainable ecological restoration of brownfield sites through engineering or managed natural attenuation? A case study from Northwest England. **2012**, 40, 70-79		18
805	Phytoaccumulation of copper in willow seedlings under different hydrological regimes. **2012**, 44, 285-289		27
804	Occurrence, bioavailability and toxic effects of trace metals and organic contaminants in mangrove ecosystems: a review. **2012**, 48, 84-101		251
803	Natural zinc enrichment in peatlands: Biogeochemistry of ZnS formation. **2012**, 84, 165-176		25
802	Sorption behaviour of beryllium-7 and implications for its use as a sediment tracer. **2012**, 187-188, 16-23		43
801	Surficial and Vertical Distribution of Heavy Metals in Different Estuary Wetlands in the Pearl River, South China. **2012**, 40, 1174-1184		16

800	Two-decade wetland cultivation and its effects on soil properties in salt marshes in the Yellow River Delta, China. **2012**, 10, 49-55		49
799	Impact of remobilized contaminants in Mytilus edulis during dredging operations in a harbour area: bioaccumulation and biomarker responses. **2012**, 85, 96-103		44
798	Biogeochemical factors affecting mercury methylation rate in two contaminated floodplain soils. **2012**, 9, 493-507		98
797	Water quality, sediment, and soil characteristics near Fargo-Moorhead urban areas as affected by major flooding of the Red River of the North. **2012**, 41, 554-63		3
796	Hepatic proteome changes in Solea senegalensis exposed to contaminated estuarine sediments: a laboratory and in situ survey. **2012**, 21, 1194-207		9
795	Trace metals in the coastal soils developed from estuarine floodplain sediments in the Croatian Mediterranean region. **2012**, 34, 399-416		49
794	Heavy metals: their pathway from the ground, groundwater and springs to Lake G□eckie (Poland). **2012**, 184, 3315-40		15
793	Effects of soil properties on the transfer of cadmium from soil to wheat in the Yangtze River delta region, China--a typical industry-agriculture transition area. **2012**, 148, 264-74		37
792	A historical review and bibliometric analysis of research on estuary pollution. *Marine Pollution Bulletin*, **2012**, 64, 13-21	6.7	90
791	Evolution of sediment metal concentrations in a tidal marsh restoration project. *Science of the Total Environment*, **2012**, 419, 187-95	10.2	20
790	Gradient analysis reveals a copper paradox on floodplain soils under long-term pollution by mining waste. *Science of the Total Environment*, **2012**, 425, 146-54	10.2	15
789	Review of Pb availability and toxicity to plants in relation with metal speciation; role of synthetic and natural organic ligands. *Journal of Hazardous Materials*, **2012**, 219-220, 1-12	12.8	258
788	Arsenic and heavy metal pollution in wetland soils from tidal freshwater and salt marshes before and after the flow-sediment regulation regime in the Yellow River Delta, China. *Journal of Hydrology*, **2012**, 450-451, 244-253	6	181
787	Sedimentary geochemical record of historical anthropogenic activities affecting Guanabara Bay (Brazil) environmental quality. **2012**, 65, 1661-1669		41
786	Regional Contamination of Moravia (South-Eastern Czech Republic): Temporal Shift of Pb and Zn Loading in Fluvial Sediments. **2012**, 223, 739-753		33
785	Organic carbon source in formulated sediments influences life traits and gene expression of Caenorhabditis elegans. **2012**, 21, 557-68		10
784	Near-shore distribution of heavy metals in the Albanian part of Lake Ohrid. **2012**, 184, 1823-39		13
783	Mid-term variation of vertical distribution of acid volatile sulphide and simultaneously extracted metals in sediment cores from Lake Albufera (Valencia, Spain). **2013**, 65, 654-64		9

782	Relative importance of burrow sediment and porewater to the accumulation of trace metals in the clam Amiantis umbonella. **2013**, 65, 89-97		11
781	Biogeochemical Fractions of Mercury in Soil Profiles of Two Different Floodplain Ecosystems in Germany. **2013**, 224, 1		36
780	Redox transformation, solid phase speciation and solution dynamics of copper during soil reduction and reoxidation as affected by sulfate availability. **2013**, 123, 385-402		53
779	A novel fractionation approach for water constituents - distribution of storm event metals. **2013**, 15, 1006-16		12
778	12.21 Interactions among Hydrogeomorphology, Vegetation, and Nutrient Biogeochemistry in Floodplain Ecosystems. **2013**, 307-321		8
777	Robust assessment of moderate heavy metal contamination levels in floodplain sediments: a case study on the Jizera River, Czech Republic. *Science of the Total Environment*, **2013**, 452-453, 233-45	10.2	56
776	Assessment of trace metal bioavailability in garden soils and health risks via consumption of vegetables in the vicinity of Tongling mining area, China. **2013**, 90, 103-11		109
775	Heavy Metals in Soils. **2013**,		299
774	Profile of trace metals accumulation in core sediment from Seine river estuary (docks basin). **2013**, 34, 1107-16		12
773	A review of the distribution coefficients of trace elements in soils: influence of sorption system, element characteristics, and soil colloidal properties. **2013**, 201-202, 43-56		173
772	Multivariate analysis of heavy metal contaminations in seawater and sediments from a heavily industrialized harbor in Southern Taiwan. *Marine Pollution Bulletin*, **2013**, 76, 266-75	6.7	107
771	Potential impacts of discharges from seawater reverse osmosis on Taiwan marine environment. **2013**, 322, 84-93		10
770	Plants accumulating heavy metals in the Danube River wetlands. **2013**, 11, 39		24
769	Integration of sediment contamination with multi-biomarker responses in a novel potential bioindicator (Sepia officinalis) for risk assessment in impacted estuaries. **2013**, 22, 1538-54		12
768	The impact of oscillating redox conditions: arsenic immobilisation in contaminated calcareous floodplain soils. *Environmental Pollution*, **2013**, 178, 254-63	9.3	47
767	An investigation into the heavy metal burden of Akkulam Veli Lake in south India. **2013**, 68, 795-806		18
766	Lability of potentially toxic elements in soils affected by smelting activities. *Chemosphere*, **2013**, 90, 820-8	3.4	21
765	Environmental assessment of trace element bioaccumulation in sipunculan from seagrass and wetland sediments. **2013**, 185, 2269-79		3

764	Speciation and Mobility of Selected Trace Metals (As, Cu, Mn, Pb and Zn) in Sediment with Depth in Cam River-Mouth, Haiphong, Vietnam. **2013**, 19, 57-75		12
763	Bioavailability and Analytical Measurement of Copper Residuals in Sediments. **2013**, 224, 1		3
762	Organic matter control on the reactivity of Fe(III)-oxyhydroxides and associated As in wetland soils: A kinetic modeling study. **2013**, 335, 24-35		38
761	Consistent assessment of trace metal contamination in surface sediments and suspended particulate matter: a case study from the Jade Bay in NW Germany. *Marine Pollution Bulletin*, **2013**, 70, 100-11	6.7	49
760	Trace metal biogeochemistry in mangrove ecosystems: a comparative assessment of acidified (by acid sulfate soils) and non-acidified sites. *Science of the Total Environment*, **2013**, 463-464, 667-74	10.2	50
759	Factors influencing the contents of metals and as in soils around the watershed of Guanting Reservoir, China. **2013**, 25, 561-8		35
758	Salinity increases the mobility of Cd, Cu, Mn, and Pb in the sediments of Yangtze Estuary: relative role of sediments' properties and metal speciation. *Chemosphere*, **2013**, 91, 977-84	8.4	129
757	Identification of silicon (Si) as an appropriate normaliser for estimating the heavy metals enrichment of an urban lake system. *Journal of Environmental Management*, **2013**, 129, 54-61	7.9	12
756	Gull-derived trace elements trigger small-scale contamination in a remote Mediterranean nature reserve. *Marine Pollution Bulletin*, **2013**, 74, 237-43	6.7	18
755	When liming and revegetation contribute to the mobilisation of metals: learning lessons for the phytomanagement of metal-polluted wetlands. *Journal of Environmental Management*, **2013**, 116, 72-80	7.9	12
754	Arsenic release from deep natural solid matrices under experimentally controlled redox conditions. *Science of the Total Environment*, **2013**, 444, 231-40	10.2	39
753	Impact of organic manure on the phytoremediation potential of Vetiveria zizanioides in chromium-contaminated soil. **2013**, 29, 270-279		11
752	Contamination by trace metals and their trophic transfer to the biota in a Mediterranean coastal system affected by gull guano. **2013**, 479, 13-24		22
751	Chemistry of Heavy Metals and Metalloids in Soils. **2013**, 51-95		36
750	Soil and Water Management for Sustained Agriculture in Alluvial Plains and Flood Plains Exposed to Salinity: A Case of Neretva River Valley. **2013**, 473-494		
749	Groundwater Pollution and Quality Monitoring Approaches at the European Level. **2013**, 43, 323-408		44
748	Land use changes and metal mobility: multi-approach study on tidal marsh restoration in a contaminated estuary. *Science of the Total Environment*, **2013**, 449, 174-83	10.2	11
747	Metal exposure and accumulation patterns in free-range cows (Bos taurus) in a contaminated natural area: Influence of spatial and social behavior. *Environmental Pollution*, **2013**, 172, 186-99	9.3	25

746	Phytomanagement of strongly acidic, saline eutrophic wetlands polluted by mine wastes: the influence of liming and Sarcocornia fruticosa on metals mobility. *Chemosphere*, **2013**, 90, 2512-9	8.4	22
745	Fractionation of Selected Heavy Metals in Agricultural Soils / Frakcjonowanie Wybranych Metali Ci□kich W Glebach Uprawnych. **2013**, 20, 117-125		3
744	Forensic Assessment of Metal Contaminated Rivers in the 21st Century Using Geochemical and Isotopic Tracers. **2013**, 3, 192-246		14
743	Isotopes Trace Biogeochemistry and Sources of Cu and Zn in an intertidal soil. **2013**, 77, 680-691		25
742	Cross-species extrapolation of prediction models for cadmium transfer from soil to corn grain. **2013**, 8, e80855		18
741	Hydrological and chemical connectivity dynamics in a groundwater-dependent ecosystem impacted by acid sulfate soils. **2013**, 49, 441-457		8
740	Environmental influence on cultivable microbial community in the sediment of Sundarban mangrove forest, India. **2013**, 7, 4655-4665		2
739	Fractionation of Cd, Cu, Ni, Pb, and Zn in floodplain soils from Egypt, Germany and Greece. **2013**, 1, 33003		6
738	Metal Contaminated Dredged Sediment Derived Soils: A Case Of Diffuse Contamination. **2013**, 1, 33009		
737	Biogeochemical Factors Governing Cobalt, Nickel, Selenium, and Vanadium Dynamics in Periodically Flooded Egyptian North Nile Delta Rice Soils. **2014**, 78, 1065-1078		88
736	DOC sources and DOC transport pathways in a small headwater catchment as revealed by carbon isotope fluctuation during storm events. **2014**, 11, 3043-3056		40
735	Fate of colloids during estuarine mixing in the Arctic. **2014**, 10, 107-125		52
734	Comprehensive risk assessment of heavy metals in surface sediments along the Egyptian Red Sea coast. **2014**, 40, 349-362		51
733	Metal binding in soil cores and sediments in the vicinity of a dammed agricultural and industrial watershed. **2014**, 186, 8793-806		7
732	Assessment of trace metal bioaccumulation by Avicennia marina (Forsk.) in the last remaining mangrove stands in Manila Bay, the Philippines. **2014**, 93, 722-7		11
731	Effects of Different Water Managements on Yield and Cadmium Accumulation in Rice. **2014**, 1073-1076, 248-252		0
730	Effects of a reservoir flushing on trace metal partitioning, speciation and benthic invertebrates in the floodplain. **2014**, 16, 2692-702		15
729	The role of vegetation in the retention of fine sediment and associated metal contaminants in London's rivers. **2014**, 39, 1115-1127		6

728	A new semi-quantitative tracer approach for the validation of a two-dimensional sediment transport model. **2014**, 40, 8-18		0
727	Effects of Adding Alkaline Material on the Heavy Metal Chemical Fractions in Soil under Flooded and Non-Flooded Conditions. **2014**, 23, 899-916		7
726	A field study on phytoremediation of dredged sediment contaminated by heavy metals and nutrients: the impacts of sediment aeration. *Environmental Science and Pollution Research*, **2014**, 21, 13432-60	5.1	16
725	Risk assessment of metal species in sediments of the river Ganga. **2014**, 122, 140-149		36
724	Environmental Risk of Metal Mining Contaminated River Bank Sediment at Redox-Transitional Zones. **2014**, 4, 52-73		49
723	Seasonal variation of dissolved heavy metals in the reservoir of Shahid Rajaei dam, Sari, Iran. **2014**, 1-12		1
722	Geochemical fractions of chromium, copper, and zinc and their vertical distribution in floodplain soil profiles along the Central Elbe River, Germany. **2014**, 228-229, 142-159		113
721	Lysimeter trials to assess the impact of different flood–dry-cycles on the dynamics of pore water concentrations of As, Cr, Mo and V in a contaminated floodplain soil. **2014**, 228-229, 5-13		86
720	Sedimentary records of metal speciation in the Yangtze Estuary: role of hydrological events. *Chemosphere*, **2014**, 107, 415-422	8.4	28
719	Binding forms and availability of Cd and Cr in paddy soil under non-flooding controlled irrigation. **2014**, 12, 213-222		11
718	Distribution, chemical speciation and source of trace elements in surface sediments of the Changjiang Estuary. **2014**, 72, 3193-3204		12
717	Selenium and tellurium fractionation, enrichment, sources and chronological reconstruction in the East China Sea. **2014**, 143, 48-57		5
716	Distribution of heavy metals in soils of the Yellow River Delta: concentrations in different soil horizons and source identification. **2014**, 14, 1158-1168		43
715	Long-term cultivation impact on the heavy metal behavior in a reclaimed wetland, Northeast China. **2014**, 14, 567-576		19
714	Comparison of arsenic and heavy metals contamination between existing wetlands and wetlands created by river diversion in the Yellow River estuary, China. **2014**, 72, 1667-1681		17
713	Functional traits of selected mangrove species in Brazil as biological indicators of different environmental conditions. *Science of the Total Environment*, **2014**, 476-477, 496-504	10.2	19
712	New insights on mobility and bioavailability of heavy metals in soils of the Padanian alluvial plain (Ferrara Province, northern Italy). **2014**, 74, 615-623		25
711	Heavy metal concentration in mangrove surface sediments from the north-west coast of South America. *Marine Pollution Bulletin*, **2014**, 82, 221-6	6.7	60

710	Identifying environmental and geochemical variables governing metal concentrations in a stream draining headwaters in NW Spain. **2014**, 44, 61-68		17
709	The impact of greenhouse vegetable farming duration and soil types on phytoavailability of heavy metals and their health risk in eastern China. *Chemosphere*, **2014**, 103, 121-30	8.4	77
708	Methodology to assess the mobility of trace elements between water and contaminated estuarine sediments as a function of the site physico-chemical characteristics. *Science of the Total Environment*, **2014**, 473-474, 359-71	10.2	26
707	Long-term radiostrontium interactions and transport through sediment. **2014**, 48, 8919-25		7
706	Leaching potential of metallic elements from contaminated soils under anoxia. **2014**, 16, 211-9		17
705	Assessment of trace element contamination in sediment cores from the Pearl River and estuary, South China: geochemical and multivariate analysis approaches. **2014**, 186, 8089-107		15
704	Effects of sediment geochemical properties on heavy metal bioavailability. **2014**, 73, 270-81		365
703	Temporal variations and bioaccumulation of heavy metals in different Suaeda salsa marshes of the Yellow River estuary, China. *Environmental Science and Pollution Research*, **2014**, 21, 14174-87	5.1	16
702	Rock glacier outflows may adversely affect lakes: lessons from the past and present of two neighboring water bodies in a crystalline-rock watershed. **2014**, 48, 6192-200		28
701	Trace element transfer from soil to leaves of macrophytes along the Jalle dEysines River, France and their potential use as contamination biomonitors. **2014**, 46, 425-437		25
700	Contamination of Floodplain Soils along the Wupper River, Germany, with As, Co, Cu, Ni, Sb, and Zn and the Impact of Pre-definite Redox Variations on the Mobility of These Elements. **2014**, 23, 779-799		90
699	Combine the soil water assessment tool (SWAT) with sediment geochemistry to evaluate diffuse heavy metal loadings at watershed scale. *Journal of Hazardous Materials*, **2014**, 280, 252-9	12.8	28
698	Remediation of metal-contaminated soil in polar environments: Phosphate fixation at Casey Station, East Antarctica. **2014**, 51, 33-43		10
697	Vertical distribution of heavy metals in soil profile in a seasonally waterlogging agriculture field in Eastern Ganges Basin. **2014**, 186, 5411-27		44
696	Copper stable isotopes to trace copper behavior in wetland systems. **2014**, 48, 5520-9		36
695	Sediment properties and heavy metal pollution assessment in the river, estuary and lake environments of a fluvial plain, China. **2014**, 119, 52-60		71
694	Concentrations and geochemical fractions of rare earth elements in two different marsh soil profiles at the North Sea, Germany. **2014**, 14, 1417-1433		22
693	Mercury volatilization from a floodplain soil during a simulated flooding event. **2014**, 14, 1549-1558		4

692	Influence of pH on the redox chemistry of metal (hydr)oxides and organic matter in paddy soils. **2014**, 14, 1713-1726		55
691	Accumulation and risk of heavy metals in relation to agricultural intensification in the river sediments of agricultural regions. **2014**, 71, 3945-3951		30
690	Interactions between trace metals and plastic production pellets under estuarine conditions. **2014**, 167, 25-32		312
689	Trace Element Solubility in a Multimetal-Contaminated Soil as Affected by Redox Conditions. **2014**, 225, 1		44
688	Properties, processes and ecological functions of floodplain, peatland, and paddy soils. **2014**, 228-229, 1-4		9
687	Sodium chloride salinity reduces Cd uptake by edible amaranth (Amaranthus mangostanus L.) via competition for Ca channels. **2014**, 105, 59-64		31
686	Geochemical fractions of rare earth elements in two floodplain soil profiles at the Wupper River, Germany. **2014**, 228-229, 160-172		38
685	Characterization and evaluation of arsenic and boron adsorption onto natural geologic materials, and their application in the disposal of excavated altered rock. **2014**, 213, 163-172		38
684	Seawater ^{7}Li: A direct proxy for global CO2 consumption by continental silicate weathering?. **2014**, 381, 154-167		54
683	Occurrence and distribution of key potentially toxic elements (PTEs) in agricultural soils: a paradigmatic case study in an area affected by illegal landfills. **2014**, 145, 169-180		32
682	A geochemical survey of heavy metals in agricultural and background soils of the Isfahan industrial zone, Iran. **2014**, 121, 88-98		117
681	Temporal dynamics of pore water concentrations of Cd, Co, Cu, Ni, and Zn and their controlling factors in a contaminated floodplain soil assessed by undisturbed groundwater lysimeters. *Environmental Pollution*, **2014**, 191, 223-31	9.3	82
680	Soil metal pollution as a function of traffic density and distance from road in emerging cities: a case study of Abeokuta, southwestern Nigeria. **2014**, 60, 275-295		10
679	Arsenic Dissolution from Waste Dumps Containing Marine Sediment. **2014**, 123, 936-948		3
678	Effects of a small-scale, abandoned gold mine on the geochemistry of fine stream-bed and floodplain sediments in the Horsefly River watershed, British Columbia, Canada. **2014**, 78, 1491-1504		4
677	Fast colloidal and dissolved release of trace elements in a carbonatic soil after experimental flooding. **2015**, 259-260, 156-163		22
676	The seasonal heavy metal signature and variations in the microbial mat (petola) of the Sečovlje Salina (northern Adriatic). **2015**, 15, 2359-2368		6
675	The influence of flow-through saline gravel pit lakes on the hydrologic budget and hydrochemistry of a Mediterranean drainage basin. **2015**, 60, 2009-2025		11

674	Fractionation and mobilization of toxic elements in floodplain soils from Egypt, Germany, and Greece: A comparison study. **2015**, 48, 1317-1328		21
673	Trace element release patterns from three floodplain soils under simulated oxidized–reduced cycles. **2015**, 83, 485-495		35
672	A review of the impacts of degradation threats on soil properties in the UK. **2015**, 31, 1-15		45
671	Distribution of Contaminated Soils along Transversal and Longitudinal Gradients in Dynamic Fluvial Environment (Southern Québec, Canada). **2015**, 8, ASWR.S22465		1
670	Evaluating management-induced soil salinization in golf courses in semi-arid landscapes. **2015**, 6, 393-402		17
669	Soil as levels and bioaccumulation in Suaeda salsa and Phragmites australis wetlands of the Yellow River Estuary, China. **2015**, 2015, 301898		5
668	Miscellaneous additives can enhance plant uptake and affect geochemical fractions of copper in a heavily polluted riparian grassland soil. **2015**, 119, 58-65		43
667	Adsorption of pathogenic microorganisms, NH4 + and heavy metals from wastewater by clinoptilolite using bed laminar flow. **2015**, 50, 1-10		6
666	Phytoextraction of potentially toxic elements by Indian mustard, rapeseed, and sunflower from a contaminated riparian soil. **2015**, 37, 953-67		63
665	Dissolved and particulate metals dynamics in a human impacted estuary from the SW Atlantic. **2015**, 166, 45-55		41
664	Interactive effects of metal pollution and ocean acidification on physiology of marine organisms. **2015**, 61, 653-668		54
663	Trace elements mobility in a saline coastal aquifer of the Po river lowland (Italy). **2015**, 159, 317-328		13
662	Spatial and vertical distribution of metals in sediment cores from Rio Espírito Santo estuary, Puerto Rico, United States. *Marine Pollution Bulletin*, **2015**, 100, 445-452	6.7	17
661	Spatial Analysis of Metal Profiles in Sediments in a Tropical Estuary: A Geostatistical Approach. **2015**, 69, 482-93		1
660	Toxic effects of metals on two euryhaline ciliate species adapted to variable salinities. **2015**, 70, 486-494		1
659	Effects of alternating wetting and drying versus continuous flooding on chromium fate in paddy soils. **2015**, 113, 439-45		31
658	Copper dynamics under alternating redox conditions is influenced by soil properties and contamination source. **2015**, 173, 83-91		12
657	Characterization of dissolved organic matter from a restored urban marsh and its role in the mobilization of trace metals. *Chemosphere*, **2015**, 127, 144-51	8.4	26

656	Seawater inundation of coastal floodplain sediments: Short-term changes in surface water and sediment geochemistry. **2015**, 398, 32-45		7
655	Impact of Floods and Their Frequency on Content and Distribution of Risk Elements in Alluvial Soils. **2015**, 226, 1		6
654	Metal accumulation in an artificially recharged gravel pit lake used for drinking water supply. **2015**, 150, 35-51		17
653	Influence of anthropogenic inputs and a high-magnitude flood event on metal contamination pattern in surface bottom sediments from the Deba River urban catchment. *Science of the Total Environment*, **2015**, 514, 10-25	10.2	51
652	Production and retention of methylmercury in inundated boreal forest soils. **2015**, 49, 3482-9		17
651	Heavy metal risk assessment after oxidation of dredged sediments through speciation and availability studies in the Reno river basin, Northern Italy. **2015**, 15, 1235-1245		13
650	How anthropogenic activities affect soil heavy metal concentration on a broad scale: a geochemistry survey in Yangtze River Delta, Eastern China. **2015**, 73, 1823-1835		36
649	Spatiotemporal Variation of Trace Elements and Stable Isotopes in Subtropical Estuaries: I. Freshwater Endmembers and Mixing Curves. **2015**, 38, 754-768		36
648	Environmental controls on the speciation and distribution of mercury in surface sediments of a tropical estuary, India. *Marine Pollution Bulletin*, **2015**, 95, 350-7	6.7	42
647	Trace elements and heavy metals in the Grand Bay National Estuarine Reserve in the northern Gulf of Mexico. *Marine Pollution Bulletin*, **2015**, 99, 61-9	6.7	11
646	Lysimeter monitoring as assessment of the potential for revegetation to manage former iron industry settling ponds. *Science of the Total Environment*, **2015**, 526, 29-40	10.2	7
645	Influence of tannery sludge on oil yield, metal uptake and antioxidant activities of Ocimum basilicum L. grown in two different soils. **2015**, 83, 422-430		12
644	Enriching rice with Zn and Fe while minimizing Cd risk. **2015**, 6, 121		61
643	Contamination and vertical distribution of As, Cd, Cr, Cu, Pb, Tl, and Zn in paddy soil irrigated with untreated leachate from tailings retention ponds. **2015**, 97, 710-722		2
642	Bioleaching of multiple metals from contaminated sediment by moderate thermophiles. *Marine Pollution Bulletin*, **2015**, 97, 47-55	6.7	21
641	Deposition of trace metals in sediments of the deltaic plain and adjacent coastal area (the Neretva River, Adriatic Sea). **2015**, 157, 120-131		10
640	Assessment of heavy metals mobility and toxicity in contaminated sediments by sequential extraction and a battery of bioassays. **2015**, 24, 1279-93		67
639	Assessment of trace metal pollution in sediments and intertidal fauna at the coast of Cameroon. **2015**, 187, 337		10

638	Effects of soil drying and wetting-drying cycles on the availability of heavy metals and their relationship to dissolved organic matter. **2015**, 15, 1510-1519		27
637	Do soil Fe transformation and secretion of low-molecular-weight organic acids affect the availability of Cd to rice?. *Environmental Science and Pollution Research*, **2015**, 22, 19497-506	5.1	7
636	Distribution, migration and potential risk of heavy metals in the Shima River catchment area, South China. **2015**, 17, 1769-82		22
635	Assessing environmental drivers of microbial communities in estuarine soils of the Aconcagua River in Central Chile. **2015**, 91,		10
634	Monthly dynamics of microbial community structure and their controlling factors in three floodplain soils. **2015**, 90, 169-178		61
633	Fate of engineered nanomaterials in surface water: Factors affecting interactions of Ag and CeO2 nanoparticles with (re)suspended sediments. **2015**, 80, 140-150		22
632	Physicochemical characterization, elemental speciation and hydrogeochemical modeling of river and peloid sediments used for therapeutic uses. **2015**, 104, 36-47		18
631	Spatial variations and bioaccumulation of heavy metals in intertidal zone of the Yellow River estuary, China. **2015**, 126, 43-52		82
630	Impact of systematic change of redox potential on the leaching of Ba, Cr, Sr, and V from a riverine soil into water. **2015**, 15, 623-633		59
629	Relationships between heavy metal concentrations in soils and reclamation history in the reclaimed coastal area of Chongming Dongtan of the Yangtze River Estuary, China. **2015**, 15, 139-152		24
628	Assessment of heavy metal distribution pattern in the sediments of Tamirabarani river and estuary, east coast of Tamil Nadu, India. **2015**, 73, 2441-2452		11
627	Manganese Oxide Biominerals from Freshwater Environments in Quadrilatero Ferrifero, Minas Gerais, Brazil. **2015**, 32, 549-559		11
626	Effects of salinity on the transformation of heavy metals in tropical estuary wetland soil. **2015**, 31, 186-198		11
625	In-situ measurement of free trace metal concentrations in a flooded paddy soil using the Donnan Membrane Technique. **2015**, 241-242, 59-67		18
624	Use of Industrial Wastes as Media in Constructed Wetlands and Filter Beds□Prospects for Removal of Phosphate and Metals from Wastewater Streams. **2015**, 45, 1041-1103		41
623	Sequence of the main geochemical controls on the Cu and Zn fractions in the Yangtze River estuarine sediments. **2016**, 10, 19-27		2
622	Spatial and Seasonal Distribution and Risk Assessments for Metals in a Tamarix Chinensis Wetland, China. **2016**, 36, 125-136		36
621	Evaluation of metal contamination and phytoremediation potential of aquatic macrophytes of East Kolkata Wetlands, India. **2016**, 31, e2016021		7

620	Constructed wetlands: fundamental processes and mechanisms for heavy metal removal from wastewater streams. **2016**, 8, 148		5
619	Spatial Distribution and Toxic Potency of Trace Metals in Surface Sediments of the Seine Estuary (France). **2016**, 44, 544-552		8
618	Chromium Release from a COPR-Contaminated Soil at Varying Water Content and Redox Conditions. **2016**, 45, 1259-67		14
617	DGT and Bioavailability. 216-262		3
616	Spatial distribution of trace elements and ecotoxicity of bottom sediments in Rybnik reservoir, Silesian-Poland. *Environmental Science and Pollution Research*, **2016**, 23, 17255-68	5.1	31
615	Knowledge and Concern for Sea-Level Rise in an Urban Environmental Justice Community. **2016**, 31, 885-907		9
614	Temporal variability in trace metal solubility in a paddy soil not reflected in uptake by rice (Oryza sativa L.). **2016**, 38, 1355-1372		15
613	The study on heavy metal distribution in the sediment of middle tidal flat in Yangtze Estuary, China. **2016**, 75, 1		5
612	Distribution, speciation, and ecological risk assessment of heavy metals in surface sediments of Jiaozhou Bay, China. **2016**, 22, 1253-1267		17
611	Leaching heavy metals from the surface soil of reclaimed tidal flat by alternating seawater inundation and air drying. *Chemosphere*, **2016**, 157, 262-70	8.4	17
610	Seasonal variation of methylmercury in sediment cores from the Tagus Estuary (Portugal). *Marine Pollution Bulletin*, **2016**, 104, 162-70	6.7	19
609	Heavy metals in wetland soils along a wetland-forming chronosequence in the Yellow River Delta of China: Levels, sources and toxic risks. **2016**, 69, 331-339		115
608	A three-year in-situ study on the persistence of a combined amendment (limestone+sepiolite) for remedying paddy soil polluted with heavy metals. **2016**, 130, 163-70		60
607	Role of phosphogypsum and NPK amendments on the retention or leaching of metals in different soils. *Journal of Environmental Management*, **2016**, 178, 20-29	7.9	13
606	Trace metal surface water inflow and retention in different terms of the wetland. **2016**, 57, 18806-18816		0
605	Trend of Heavy Metal Release According to Forecasted Climate Change in the Po Delta. **2016**, 3, 553-567		2
604	Distributions of cadmium and lead in peri-urban wetlands as influenced by soil organic matter, clay fraction, and moisture content. **2016**, 2,		2
603	Trace Metal Concentrations in Marsh Profiles Under the Influence of an Emerging Delta (Atchafalaya River and Wax Lake Delta) Overlying a Several Thousand Year Old (Former)Mississippi River Delta Lobe. **2016**, 25, 552-562		6

602	Iron biofortification of wheat grains through integrated use of organic and chemical fertilizers in pH affected calcareous soil. **2016**, 104, 284-93		43
601	Mining-Related Sediment and Soil Contamination in a Large Superfund Site: Characterization, Habitat Implications, and Remediation. **2016**, 58, 721-40		7
600	Soil Science: Agricultural and Environmental Prospectives. **2016**,		7
599	Voltammetric Characterization of Cu(II) Complexation in Real-Time. **2016**, 88, 7603-8		3
598	Revisiting geochemical methods of distinguishing natural concentrations and pollution by risk elements in fluvial sediments. **2016**, 170, 39-57		76
597	The composition of mobile matter in a floodplain topsoil: A comparative study with soil columns and field lysimeters. **2016**, 179, 18-28		6
596	Assessment of heavy metal pollution in Red River surface sediments, Vietnam. *Marine Pollution Bulletin*, **2016**, 113, 513-519	6.7	47
595	Impacts of river impoundment on dissolved heavy metals in floodplain soils of the Lahn River (Germany). **2016**, 75, 1		11
594	Factors affecting the soil arsenic bioavailability, accumulation in rice and risk to human health: a review. **2016**, 26, 565-579		21
593	Submarine groundwater discharge: A significant source of dissolved trace metals to the North Western Mediterranean Sea. **2016**, 186, 90-100		38
592	Iron Biofortification of Cereals Grown Under Calcareous Soils: Problems and Solutions. **2016**, 231-258		6
591	Effects of Manganese Oxide on Arsenic Reduction and Leaching from Contaminated Floodplain Soil. **2016**, 50, 9251-61		30
590	Column Test in Field Application Study Using Biostimulant Ball in Contaminated Coastal Sediment. **2016**, 25, 792-811		
589	Spatial and temporal distributions of sulfur species in paddy soils affected by acid mine drainage in Dabaoshan sulfide mining area, South China. **2016**, 281, 21-29		27
588	Bioavailability and risk assessment of arsenic in surface sediments of the Yangtze River estuary. *Marine Pollution Bulletin*, **2016**, 113, 125-131	6.7	12
587	Distribution characteristics and sources of trace metals in sediment cores from a trans-boundary watercourse: An example from the Shima River, Pearl River Delta. **2016**, 134P1, 186-195		50
586	Methodological approaches for fractionation and speciation to estimate trace element bioavailability in engineered anaerobic digestion ecosystems: An overview. **2016**, 46, 1324-1366		34
585	Antimony release from contaminated mine soils and its migration in four typical soils using lysimeter experiments. **2016**, 133, 1-9		13

584	Wetlands: conservation's poor cousins. **2016**, 26, 892-916		80
583	Geochemical hunting of lithogenic and anthropogenic impacts on polymetallic distribution (Bregalnica river basin, Republic of Macedonia). **2016**, 51, 1180-94		11
582	Heavy metal concentrations in riparian soils along the Han River, China: The importance of soil properties, topography and upland land use. **2016**, 97, 545-552		38
581	Prediction of cadmium enrichment in reclaimed coastal soils by classification and regression tree. **2016**, 177, 1-7		9
580	Bioaccumulation of Lead and Arsenic in Gastropods Inhabiting Salt Marsh Ponds in Coastal Bay of Fundy, Canada. **2016**, 227, 1		8
579	A Review of Flood-Related Storage and Remobilization of Heavy Metal Pollutants in River Systems. **2016**, 227, 239		91
578	Water and (bio)chemical cycling in gravel pit lakes: A review and outlook. **2016**, 159, 247-270		25
577	Nickel in a serpentine-enriched Fluvisol: Redox affected dynamics and binding forms. **2016**, 263, 203-214		39
576	Spatial and temporal dynamics of heavy metal pollution and source identification in sediment cores from the short-term flooding riparian wetlands in a Chinese delta. *Environmental Pollution*, **2016**, 219, 379-388	9.3	78
575	Using geochemical indicators to distinguish high biogeochemical activity in floodplain soils and sediments. *Science of the Total Environment*, **2016**, 563-564, 386-95	10.2	8
574	Detecting heavy metal pollution of floodplain vegetation in a pot experiment using reflectance spectroscopy. **2016**, 14, 499-507		6
573	Amendment of biochar reduces the release of toxic elements under dynamic redox conditions in a contaminated floodplain soil. *Chemosphere*, **2016**, 142, 41-7	8.4	149
572	Assessment of bed sediment metal contamination in the Shadegan and Hawr Al Azim wetlands, Iran. **2016**, 188, 107		23
571	Heavy metal accumulation reflecting natural sedimentary processes and anthropogenic activities in two contrasting coastal wetland ecosystems, eastern China. **2016**, 16, 1093-1108		29
570	Extraction of heavy metals characteristics of the 2011 Tohoku tsunami deposits using multiple classification analysis. *Chemosphere*, **2016**, 144, 1241-8	8.4	27
569	Changes in metal availability, desorption kinetics and speciation in contaminated soils during repeated phytoextraction with the Zn/Cd hyperaccumulator Sedum plumbizincicola. *Environmental Pollution*, **2016**, 209, 123-31	9.3	34
568	Kinetics of sulfate reduction and sulfide precipitation rates in sediments of a bar-built estuary (Pescadero, California). **2016**, 94, 86-102		18
567	Soil formation and its implications for stabilization of soil organic matter in the riparian zone. **2016**, 139, 9-18		30

566	Redox effects on release kinetics of arsenic, cadmium, cobalt, and vanadium in Wax Lake Deltaic freshwater marsh soils. *Chemosphere*, **2016**, 150, 740-748	8.4	126
565	Release of As, Ba, Cd, Cu, Pb, and Sr under pre-definite redox conditions in different rice paddy soils originating from the U.S.A. and Asia. **2016**, 270, 21-32		133
564	Influence of dams on sediment continuity: A study case of a natural metallic contamination. *Science of the Total Environment*, **2016**, 547, 282-294	10.2	65
563	The presence of cadmium in the intertidal environments of a moderately impacted coastal lagoon in western Portugal (Óbidos Lagoon)--spatial and seasonal evaluations. *Environmental Science and Pollution Research*, **2016**, 23, 1960-9	5.1	5
562	Geochemical records in sediments of a tropical estuary (Southeastern coast of Brazil). **2016**, 6, 49-61		9
561	Exploiting biogeochemical and spectroscopic techniques to assess the geochemical distribution and release dynamics of chromium and lead in a contaminated floodplain soil. *Chemosphere*, **2016**, 150, 390-397	8.4	73
560	Contamination, toxicity and speciation of heavy metals in an industrialized urban river: Implications for the dispersal of heavy metals. *Marine Pollution Bulletin*, **2016**, 104, 153-61	6.7	82
559	Land Use Effects on the Distribution and Speciation of Heavy Metals and Arsenic in Coastal Soils on Chongming Island in the Yangtze River Estuary, China. **2016**, 26, 74-84		37
558	Assessment of sediment quality based on acid-volatile sulfide and simultaneously extracted metals in heavily industrialized area of Asaluyeh, Persian Gulf: concentrations, spatial distributions, and sediment bioavailability/toxicity. *Environmental Science and Pollution Research*, **2016**, 23, 9871-90	5.1	40
557	Assessment of the zinc diffusion rate in estuarine zones. *Marine Pollution Bulletin*, **2016**, 104, 121-8	6.7	5
556	Evaluation of total trace metal (TTMs) enrichment from estuarine sediments of Uppanar, southeast coast of India. **2016**, 9, 1		13
555	Impact of carboxymethyl cellulose coating on iron sulphide nanoparticles stability, transport, and mobilization potential of trace metals present in soils and sediment. *Journal of Environmental Management*, **2016**, 168, 210-8	7.9	16
554	Reconstruction of centennial-scale fluxes of chemical elements in the Australian coastal environment using seagrass archives. *Science of the Total Environment*, **2016**, 541, 883-894	10.2	25
553	Response of Cu partitioning to flooding: A δ65Cu approach in a carbonatic alluvial soil. **2016**, 420, 69-76		18
552	Metal fate and effects in estuaries: A review and conceptual model for better understanding of toxicity. *Science of the Total Environment*, **2016**, 541, 268-281	10.2	166
551	Determination of sulfur in soil and plant media using wavelength dispersive X-ray fluorescence spectrometry as a tool for assessment of chemical spills. **2016**, 124, 594-599		10
550	Solubility of trace metals in two contaminated paddy soils exposed to alternating flooding and drainage. **2016**, 261, 59-69		60
549	Biogeochemistry of Ni and Pb in a periodically flooded arable soil: Fractionation and redox-induced (im)mobilization. *Journal of Environmental Management*, **2017**, 186, 141-150	7.9	29

548	Metal bioleaching from anaerobic sediments from Reconquista River basin (Argentina) as a potential remediation strategy. *Environmental Science and Pollution Research*, **2017**, 24, 25561-25570	5.1	9
547	Highlighting the wide variability in arsenic speciation in wetlands: A new insight into the control of the behavior of arsenic. **2017**, 203, 284-302		15
546	Impacts of geology and land use on magnetic susceptibility and selected heavy metals in surface soils of Mashhad plain, northeastern Iran. **2017**, 138, 127-134		39
545	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. *Chemosphere*, **2017**, 178, 110-118	8.4	185
544	Heavy metals in the Ganga (Hooghly) River estuary sediment column: evaluation of association, geochemical cycling and anthropogenic enrichment. **2017**, 76, 1		5
543	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. *Chemosphere*, **2017**, 180, 553-563	8.4	78
542	Baseline and distribution of organic pollutants and heavy metals in tidal creek sediments after Hurricane Sandy in the Meadowlands of New Jersey. **2017**, 76, 1		7
541	Response of copper concentrations and stable isotope ratios to artificial drainage in a French Retisol. **2017**, 300, 44-54		7
540	Rare earth elements and their release dynamics under pre-definite redox conditions in a floodplain soil. *Chemosphere*, **2017**, 181, 313-319	8.4	20
539	Immobilization of Cu, Zn, Cd and Pb in mine drainage stream sediment using Chinese loess. *Chemosphere*, **2017**, 181, 83-91	8.4	30
538	When soils become sediments: Large-scale storage of soils in sandpits and lakes and the impact of reduction kinetics on heavy metals and arsenic release to groundwater. *Environmental Pollution*, **2017**, 227, 146-156	9.3	14
537	Influences of hydrological regime on heavy metal and salt ion concentrations in intertidal sediment from Chongming Dongtan, Changjiang River estuary, China. **2017**, 35, 1329-1341		1
536	Compost and sulfur affect the mobilization and phyto-availability of Cd and Ni to sorghum and barnyard grass in a spiked fluvial soil. **2017**, 39, 1305-1324		18
535	Isotopic variation of dissolved and colloidal iron and copper in a carbonatic floodplain soil after experimental flooding. **2017**, 459, 13-23		9
534	Geochemical processes controlling the distribution and concentration of metals in soils from a Patagonian (Argentina) salt marsh affected by mining residues. *Science of the Total Environment*, **2017**, 596-597, 230-235	10.2	14
533	Floodplain effects on the transport of dissolved and colloidal trace elements in the East Pearl River, Mississippi. **2017**, 31, 1086-1099		10
532	Modeling seasonal and spatial contamination of surface waters and upper sediments with trace metal elements across industrialized urban areas of the Seybouse watershed in North Africa. **2017**, 189, 265		45
531	Influence of amendments on Cd and Zn uptake and accumulation in rice (Oryza sativa L.) in contaminated soil. *Environmental Science and Pollution Research*, **2017**, 24, 15756-15767	5.1	18

530	Impact of river damming on sediment texture and trace metals distribution along the watershed and the coastal zone of Nestos River (NE Greece). **2017**, 76, 1		3
529	Influence of pH on the release and chemical fractionation of heavy metals in sediment from a suburban drainage stream in an arid mine-based oasis. **2017**, 17, 2524-2536		19
528	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediation—A review. **2017**, 171, 621-645		396
527	Mechanism of removal and retention of heavy metals from the acid mine drainage to coastal wetland in the Patagonian marsh. *Chemosphere*, **2017**, 183, 361-370	8.4	14
526	Lithogenic and anthropogenic pollution assessment of Ni, Zn and Pb in surface soils of Mashhad plain, northeastern Iran. **2017**, 157, 151-162		16
525	Physiological and biochemical responses of Salix integra Thunb. under copper stress as affected by soil flooding. *Environmental Pollution*, **2017**, 225, 644-653	9.3	36
524	Geochemical speciation and risk assessment of metals in sediments of the Lobo-Broa Reservoir, Brazil. **2017**, 28, 430-443		3
523	Redox-controlled release dynamics of thallium in periodically flooded arable soil. *Chemosphere*, **2017**, 178, 268-276	8.4	27
522	Aquatic environmental changes and anthropogenic activities reflected by the sedimentary records of the Shima River, Southern China. *Environmental Pollution*, **2017**, 224, 70-81	9.3	26
521	Redox chemistry of nickel in soils and sediments: A review. *Chemosphere*, **2017**, 179, 265-278	8.4	54
520	Changes in soluble metal concentrations induced by variable water table levels as response to liming and Phragmites australis growth in metal-polluted wetland soils: Management effectiveness. **2017**, 289, 20-28		6
519	Tracing of anthropogenic zinc sources in coastal environments using stable isotope composition. **2017**, 449, 226-235		58
518	Influence of Soil Properties on Zinc Solubility Dynamics Under Different Redox Conditions in Non‐Calcareous Soils. **2017**, 27, 96-105		7
517	Distribution and source analysis of heavy metals in soils and sediments of Yueqing Bay basin, East China Sea. *Marine Pollution Bulletin*, **2017**, 115, 489-497	6.7	27
516	Application of Green Manure and Pig Manure to Cd-Contaminated Paddy Soil Increases the Risk of Cd Uptake by Rice and Cd Downward Migration into Groundwater: Field Micro-Plot Trials. **2017**, 228, 1		9
515	Predicting trace metal solubility and fractionation in Urban soils from isotopic exchangeability. *Environmental Pollution*, **2017**, 231, 1529-1542	9.3	14
514	Long term treated wastewater impacts and source identification of heavy metals in semi-arid soils of Central Botswana. **2017**, 10, 200-214		14
513	Spatial variation and toxicity assessment for heavy metals in sediments of intertidal zone in a typical subtropical estuary (Min River) of China. *Environmental Science and Pollution Research*, **2017**, 24, 23080-23095	5.1	10

512	Occurrence and spatial distribution of metals in intertidal sediments of a temperate estuarine system (Bahía Blanca, Argentina). **2017**, 76, 1		14
511	Element-specific behaviour and sediment properties modulate transfer and bioaccumulation of trace elements in a highly-contaminated area (Augusta Bay, Central Mediterranean Sea). *Chemosphere*, **2017**, 187, 230-239	8.4	13
510	Biogeochemical gradients and microbial communities in Winogradsky columns established with polluted wetland sediments. **2017**, 93,		10
509	Phytoaccumulation of heavy metals (Pb, Zn, and Cd) by 10 wetland plant species under different hydrological regimes. **2017**, 107, 56-64		34
508	Modelling the potential mobility of Cd, Cu, Ni, Pb and Zn in Mollic Fluvisols. **2017**, 39, 1291-1304		13
507	Assessing man-induced environmental changes in the Sepetiba Bay (Southeastern Brazil) with geochemical and satellite data. **2017**, 349, 290-298		20
506	The Distribution and Enrichment of Trace Metals in the Rainfall-Driven Supratidal Wetlands of Tianjin, China. **2017**, 45, 1700200		1
505	Crop residues exacerbate the negative effects of extreme flooding on soil quality. **2017**, 53, 751-765		14
504	Nonlinear biotic ligand model for assessing alleviation effects of Ca, Mg, and K on Cd toxicity to soybean roots. **2017**, 26, 942-955		9
503	Critical control of flooding and draining sequences on the environmental risk of Zn-contaminated riverbank sediments. **2017**, 17, 2691-2707		14
502	Urbanization effects on sediment and trace metals distribution in an urban winter pond (Netanya, Israel). **2017**, 17, 2165-2176		6
501	Nutritional (Fe, Mn, Ni, and Cr) and growth responses of rice plant affected by perennial application of two bio-solids. **2017**, 189, 340		14
500	Biogeochemical Cycle of Mercury and Methylmercury in Two Highly Contaminated Areas of Tagus Estuary (Portugal). **2017**, 228, 1		20
499	Need to link river management with estuarine wetland conservation: A case study in the Yellow River Delta, China. **2017**, 146, 43-49		10
498	The mineralogical, geochemical, and thermophysical characterization of healing saline mud for use in pelotherapy. **2017**, 135, 119-128		21
497	Environmental assessment of potential toxic trace element contents in the inundated floodplain area of Tablas de Daimiel wetland (Spain). **2017**, 39, 1159-1177		31
496	The effect of different TiO2 nanoparticles on the release and transformation of mercury in sediment. **2017**, 17, 536-542		4
495	Ecological risk assessment of a coastal zone in Southern Vietnam: Spatial distribution and content of heavy metals in water and surface sediments of the Thi Vai Estuary and Can Gio Mangrove Forest. *Marine Pollution Bulletin*, **2017**, 114, 1141-1151	6.7	50

494	Treatment of soil co-contaminated with inorganics and petroleum hydrocarbons using silica: Implications for remediation in cold regions. **2017**, 135, 8-15		4
493	Bioassessment of heavy metals in the surface soil layer of an opencast mine aimed for its rehabilitation. *Journal of Environmental Management*, **2017**, 186, 240-252	7.9	20
492	Modelling the concentrations of dissolved contaminants (Cd, Cu, Ni, Pb, Zn) in floodplain soils. **2017** , 39, 331-344		16
491	Oxidative transformation of iron monosulfides and pyrite in estuarine sediments: Implications for trace metals mobilisation. *Journal of Environmental Management*, **2017**, 186, 158-166	7.9	9
490	Redox-induced mobilization of copper, selenium, and zinc in deltaic soils originating from Mississippi (U.S.A.) and Nile (Egypt) River Deltas: A better understanding of biogeochemical processes for safe environmental management. *Journal of Environmental Management*, **2017**, 186, 131-140	7.9	49
489	Distribution, source identification, and ecological risk assessment of heavy metals in wetland soils of a river-reservoir system. *Environmental Science and Pollution Research*, **2017**, 24, 436-444	5.1	39
488	Floodplain capacity to depollute water in relation to the structure of biological communities. **2017**, 103, 301-314		5
487	Hydrocarbon Pollution and Potential Ecological Risk of Heavy Metals in the Sediments of the Oturuba Creek, Niger Delta, Nigeria. **2017**, 10, 1-10		1
486	Heavy Metals Pollution Influence the Community Structure of Cyanobacteria in Nutrient Rich Tropical Estuary. **2017**, 03,		1
485	An Assessement of Paddy Production System in Central Kenya with Special Reference to Micronutrients. **2017**, 9, 49		2
484	Use of Chemical Indicators and Bioassays in Bottom Sediment Ecological Risk Assessment. **2018**, 74, 395-407		19
483	Dissolution and redistribution of trace elements and nutrients during dredging of iron monosulfide enriched sediments. *Chemosphere*, **2018**, 201, 380-387	8.4	12
482	Assessment of the use of Oblada melanura (L. 1758) otolith fluctuating asymmetry as environmental disturbance indicator. **2018**, 136, 48-53		4
481	Iron and sulfur cycling in acid sulfate soil wetlands under dynamic redox conditions: A review. *Chemosphere*, **2018**, 197, 803-816	8.4	85
480	Contamination, risk, and source apportionment of potentially toxic microelements in river sediments and soil after extreme flooding in the Kolubara River catchment in Western Serbia. **2018**, 18, 1981-1993		11
479	Metals geochemistry and mass export from the Mississippi-Atchafalaya River system to the Northern Gulf of Mexico. *Chemosphere*, **2018**, 205, 559-569	8.4	13
478	Reoxidation of estuarine sediments during simulated resuspension events: Effects on nutrient and trace metal mobilisation. **2018**, 207, 40-55		15
477	High-resolution characterization of arsenic mobility and its correlation to labile iron and manganese in sediments of a shallow eutrophic lake in China. **2018**, 18, 2093-2106		7

476	Iron plaque formation and heavy metal uptake in Spartina alterniflora at different tidal levels and waterlogging conditions. **2018**, 153, 91-100		24
475	Source identification and risk assessment based on fractionation of heavy metals in surface sediments of Jiaozhou Bay, China. *Marine Pollution Bulletin*, **2018**, 128, 548-556	6.7	50
474	Enhancing the removal of pollutants from coke wastewater by bioaugmentation: A scoping study. **2018**, 93, 2535-2543		7
473	Pollution evaluation of total and acid-leachable trace elements in surface sediments of Hooghly River Estuary and Sundarban Mangrove Wetland (India). *Environmental Science and Pollution Research*, **2018**, 25, 5681-5699	5.1	27
472	Chemical fractionation and mobility of metals in floodplain soils of the lower reaches of the River Niger, Nigeria. **2018**, 73, 90-109		9
471	Heavy metal contamination and health risk assessment in soil-rice system near Xinqiao mine in Tongling city, Anhui province, China. **2018**, 24, 743-753		18
470	Changes in water quality following opening and closure of a bar-built estuary (Pescadero, California). **2018**, 198, 10-27		4
469	Unravelling metal mobility under complex contaminant signatures. *Science of the Total Environment* , **2018**, 622-623, 373-384	10.2	11
468	Simultaneous control of cadmium release and acidic pH neutralization in excavated sedimentary rock with concurrent oxidation of pyrite using steel slag. **2018**, 18, 1194-1204		9
467	Role of Potentially Toxic Elements in Soils. **2018**, 375-450		4
466	Antimony mobility during prolonged waterlogging and reoxidation of shooting range soil: A field experiment. *Science of the Total Environment*, **2018**, 624, 838-844	10.2	17
465	Investigating the metal contamination of sediment transported by the 2016 Seine River flood (Paris, France). *Environmental Pollution*, **2018**, 240, 125-139	9.3	26
464	Leaching of Metals in Coastal Technosols Triggered by Saline Solutions and Labile Organic Matter Removal. **2018**, 229, 1		3
463	Sediment geochemistry of the urban Lake Paulo Gorski. **2018**, 33, 406-414		11
462	Capping of marine sediments with valuable industrial by-products: Evaluation of inorganic pollutants immobilization. *Environmental Pollution*, **2018**, 239, 714-721	9.3	14
461	Uncertainties in historical pollution data from sedimentary records from an Australian urban floodplain lake. *Journal of Hydrology*, **2018**, 560, 560-571	6	6
460	Temporal and spatial variation and risk assessment of soil heavy metal concentrations for water-level-fluctuating zones of the Three Gorges Reservoir. **2018**, 18, 2924-2934		8
459	Bacteria in tropical floodplain soils are sensitive to changes in saltwater. **2018**, 69, 1110		5

458	Geochemistry of sedimentary organic matter and trace elements in modern lake sediments from transitional karstic land-sea environment of the Neretva River delta (Kuti Lake, Croatia). **2018**, 494, 286-299		12
457	Wetland-based phytoremediation of biosolids from an end-of-life municipal lagoon: A microcosm study. **2018**, 20, 161-167		4
456	Sediment composition, provenance, and Holocene paleoenvironmental evolution of the Southern Po River coastal plain (Italy). **2018**, 53, 914-928		19
455	Vermicompost and biochar as bio-conditioners to immobilize heavy metal and improve soil fertility on cadmium contaminated soil under acid rain stress. *Science of the Total Environment*, **2018**, 621, 1057-1065	10.2	60
454	Bioavailability and toxicity of trace metals (Cd, Cr, Cu, Ni, and Zn) in sediment cores from the Shima River, South China. *Chemosphere*, **2018**, 192, 31-42	8.4	65
453	Physiographical variability in arsenic dynamics in Bangladeshi soils. *Science of the Total Environment* , **2018**, 612, 1365-1372	10.2	14
452	Compositional variety of soil organic matter in mollic floodplain-soil profiles - Also an indicator of pedogenesis. **2018**, 311, 15-24		10
451	Seasonal variations of metal (Cd, Pb, Mn, Cu, Zn) accumulation in a voluntary species, Salix subfragilis, in unpolluted wetlands. *Science of the Total Environment*, **2018**, 610-611, 1210-1221	10.2	8
450	Microalgae and their effects on metal bioavailability in paddy fields. **2018**, 18, 936-945		3
449	Lead in Egyptian soils: Origin, reactivity and bioavailability measured by stable isotope dilution. *Science of the Total Environment*, **2018**, 618, 460-468	10.2	12
448	Effects of sediment resuspension on the oxidation of acid-volatile sulfides and release of metals (iron, manganese, zinc) in Pescadero estuary (CA, USA). **2018**, 37, 993-1006		9
447	Seasonal assessment of trace element contamination in intertidal sediments of the meso-macrotidal Hooghly (Ganges) River Estuary with a note on mercury speciation. *Marine Pollution Bulletin*, **2018**, 127, 117-130	6.7	23
446	Risk assessment and driving factors for artificial topography on element heterogeneity: Case study at Jiangsu, China. *Environmental Pollution*, **2018**, 233, 246-260	9.3	4
445	Bioturbation effects on bioaccumulation of cadmium in the wetland plant Typha latifolia: A nature-based experiment. *Science of the Total Environment*, **2018**, 618, 1284-1297	10.2	21
444	Review on utilization of biochar for metal-contaminated soil and sediment remediation. **2018**, 63, 156-173		132
443	Reduction in Trace Element Mediated Oxidative Stress towards Cropped Plants via Beneficial Microbes in Irrigated Cropping Systems: A Review. **2018**, 8, 1953		4
442	Biomonitoring of Heavy Metals Level in Wetland Plants of Lagos Lagoon, Nigeria. **2018**, 22, 1489		2
441	Assessment of trace metal contamination and its anthropogenic influence in the sediments of an urban water body in Kozhikode, Kerala, India. **2018**, 19, 288-297		4

440	Assessment of the quality of the Owabi reservoir and its tributaries. **2018**, 4, 1492360		5
439	Antimony speciation at the sediment-water interface of the Poyang Lake: response to seasonal variation. **2018**, 36, 1941-1949		3
438	Understanding the Coastal Ecocline: Assessing Sea–Land Interactions at Non-tidal, Low-Lying Coasts Through Interdisciplinary Research. *Frontiers in Marine Science*, **2018**, 5,	4.5	13
437	Major and minor elemental compositions of streambed biofilms and its implications of riverine biogeochemical cycles. *Environmental Pollution*, **2018**, 243, 308-317	9.3	5
436	The interaction between particulate organic matter and copper, zinc in paddy soil. *Environmental Pollution*, **2018**, 243, 1394-1402	9.3	20
435	Does sulfur fertilizer influence Cu migration and transformation in colloids of soil pore water from the rice (Oryza sativa L.) rhizosphere?. *Environmental Pollution*, **2018**, 243, 1119-1125	9.3	12
434	Changing depositional environment and factors controlling the growth of mudflat in a tropical estuary, west coast of India. **2018**, 77, 1		6
433	The spatial and temporal distribution of metals in an urban stream: A case study of the Don River in Toronto, Canada. **2018**, 44, 1314-1326		8
432	Co-contaminant effects on 1,4-dioxane biodegradation in packed soil column flow-through systems. *Environmental Pollution*, **2018**, 243, 573-581	9.3	19
431	Factors influencing heavy metal concentrations in the bottom sediments of the Al-Kharrar Lagoon and Salman Bay, eastern Red Sea coast, Saudi Arabia. **2018**, 11, 1		12
430	Evaluation of Calcium Oxide of Quicklime and Si-Ca-Mg Fertilizer for Remediation of Cd Uptake in Rice Plants and Cd Mobilization in Two Typical Cd-Polluted Paddy Soils. **2018**, 12, 877-885		10
429	Changes in the geochemistry of fluvial sediments after dam construction (the Chrudimka River, the Czech Republic). **2018**, 98, 94-108		17
428	Improving Rice Grain Quality by Enhancing Accumulation of Iron and Zinc While Minimizing Cadmium and Lead. **2018**,		1
427	DISTRIBUSI SPASIAL GASTROPODA Littoraria scabra DI HUTAN MANGROVE PULAU TUNDA SERANG BANTEN, INDONESIA. **2018**, 1, 17		
426	Assessing the mobilization of As, Cr, Mo, and Se in Egyptian lacustrine and calcareous soils using sequential extraction and biogeochemical microcosm techniques. **2018**, 191, 28-42		22
425	Environmental risk of severely Pb-contaminated riverbank sediment as a consequence of hydrometeorological perturbation. *Science of the Total Environment*, **2018**, 636, 1428-1441	10.2	13
424	The hidden threat of heavy metal pollution in high sedimentation and highly dynamic environment: Assessment of metal accumulation rates in the Thi Vai Estuary, Southern Vietnam. *Environmental Pollution*, **2018**, 242, 348-356	9.3	19
423	Contemporary distribution and impending mobility of arsenic, copper and zinc in a tropical (Brahmaputra) river bed sediments, Assam, India. **2018**, 161, 769-776		16

422	Metal(oid) mobility in a hypersaline salt marsh sediment (Sečovlje Salina, northern Adriatic, Slovenia). *Science of the Total Environment*, **2018**, 644, 350-359	10.2	3
421	Contamination, potential mobility, and origins of lead in sediment cores from the Shima River, south China. *Environmental Pollution*, **2018**, 242, 1128-1136	9.3	10
420	Remediation effectiveness of Phyllostachys pubescens biochar in reducing the bioavailability and bioaccumulation of metals in sediments. *Environmental Pollution*, **2018**, 242, 1768-1776	9.3	35
419	Estuaries and Coastal Lagoons of Mexico: Challenges for Science, Management, and Conservation. **2018**, 251-283		4
418	The impacts of seawater physicochemical parameters and sediment metal contents on trace metal concentrations in mussels-a chemometric approach. *Environmental Science and Pollution Research*, **2018**, 25, 28248-28263	5.1	14
417	How Human Activities Affect Heavy Metal Contamination of Soil and Sediment in a Long-Term Reclaimed Area of the Liaohe River Delta, North China. **2018**, 10, 338		58
416	Comprehensive assessment of soil quality for different wetlands in a Chinese delta. **2018**, 29, 3783-3794		23
415	Assessing Cu remobilization in reservoir riparian soils prior to water impoundment using DGT and geochemical fractionation. **2018**, 327, 55-62		8
414	The Samarco mine tailing disaster: A possible time-bomb for heavy metals contamination?. *Science of the Total Environment*, **2018**, 637-638, 498-506	10.2	127
413	Pb fractionation and redistribution as affected by applied inorganic amendments under different soil moisture regimes and incubation time in saline sodic Pb-polluted paddy soil. **2018**, 16, 875-885		4
412	Groundwater-surface water exchange associated metals at two intertidal transects, Dan'ao Estuary, Daya Bay, China. *Environmental Science and Pollution Research*, **2018**, 25, 29663-29677	5.1	5
411	Spatial variation of heavy metals in sediments within a temperate mangrove ecosystem in northern New Zealand. *Marine Pollution Bulletin*, **2018**, 135, 790-800	6.7	15
410	Impacts of dam draining on the mobility of heavy metals and arsenic in water and basin bottom sediments of three studied dams in Germany. *Science of the Total Environment*, **2018**, 640-641, 1072-1081	10.2	24
409	Effects of mangrove plant species on accumulation of heavy metals in sediment in a heavily polluted mangrove swamp in Pearl River Estuary, China. **2019**, 41, 175-189		17
408	Quantitative source identification and risk assessment of trace elements in soils from Leizhou Peninsula, South China. **2019**, 25, 1832-1852		6
407	Application of DGT/DIFS and geochemical baseline to assess Cd release risk in reservoir riparian soils, China. *Science of the Total Environment*, **2019**, 646, 1546-1553	10.2	22
406	Effects of planting patterns on the concentration and bioavailability of heavy metals in soils during wetland restoration. **2019**, 16, 853-864		4
405	Effects of conversion of mangroves into gei wai ponds on accumulation, speciation and risk of heavy metals in intertidal sediments. **2019**, 41, 159-174		5

404	Effect of dissolved oxygen and nutrient levels on heavy metal contents and fractions in river surface sediments. *Science of the Total Environment*, **2019**, 648, 861-870	10.2	49
403	Risk assessment and copper geochemistry of an orchard irrigated with mine water: a case study in the semiarid region of Brazil. **2019**, 41, 603-615		1
402	Assessing the potential ecological risk of Co, Cr, Cu, Fe and Zn in the sediments of Hooghly-Matla estuarine system, India. **2019**, 41, 53-70		21
401	Bioaccumulation of potentially toxic elements by submerged plants and biofilms: A critical review. **2019**, 131, 105015		39
400	Seasonal distribution of trace metals in suspended particulate and bottom sediments of four microtidal river estuaries, west coast of India. **2019**, 64, 1519-1534		10
399	Mineral and chemical changes of sediments after Cu sorption and then desorption induced by synthetic root exudate. *Chemosphere*, **2019**, 236, 124393	8.4	7
398	Polycyclic Aromatic Hydrocarbons in Sediments/Soils of the Rapidly Urbanized Lower Reaches of the River Chaohu, China. **2019**, 16,		19
397	Effects of humic acid-modified magnetic FeO/MgAl-layered double hydroxide on the plant growth, soil enzyme activity, and metal availability. **2019**, 182, 109424		10
396	Content of nutrients, trace elements, and ecotoxicity of sediment cores from Ro□□□w reservoir (Southern Poland). **2019**, 41, 2929-2948		13
395	Assessment of metal enrichment and bioavailability in mangrove and mudflat sediments of the tropical (Zuari) estuary, west coast of India. *Environmental Science and Pollution Research*, **2019**, 26, 24998-25011	5.1	8
394	Distribution, Geochemical Speciation, and Bioavailable Potencies of Cadmium, Copper, Lead, and Zinc in Sediments from Urban Coastal Environment in Osaka Bay, Japan. **2019**, 230, 1		8
393	Current Status of Las Tablas de Daimiel National Park Wetland and Actions Required for Conservation. **2019**, 6, 75		1
392	The vertical migration and speciation of the Pb in the paddy soil: A case study of the Yangtze River Delta, China. **2019**, 179, 108741		8
391	Impact of Past Iron Ore Mining on the Sediment Cores of Rivers of Goa. West-coast of India. **2019**, 11, 1-13		1
390	Leachability of heavy metals in loess-amended dredged sediment from Northwest of China. **2019**, 183, 109561		11
389	The nature of small molecules adsorbed on defective carbon nanotubes. **2019**, 6, 190727		3
388	Aeration Increases Cadmium (Cd) Retention by Enhancing Iron Plaque Formation and Regulating Pectin Synthesis in the Roots of Rice (Oryza sativa) Seedlings. **2019**, 12, 28		26
387	The distributions, contamination status, and health risk assessments of mercury and arsenic in the soils from the Yellow River Delta of China. *Environmental Science and Pollution Research*, **2019**, 26, 35094-35106	5.1	7

386	Potential mobility assessment of metals in salt marsh sediments from San Antonio Bay. **2019**, 191, 723		8
385	Urban-rural gradients in the distribution of trace metals in sediments within temperate mangroves (New Zealand). *Marine Pollution Bulletin*, **2019**, 149, 110614	6.7	2
384	Seasonal Release Potential of Sediments in Reservoirs and its Impact on Water Quality Assessment. **2019**, 16,		8
383	Methods of Assessment of Metal Contamination in Bottom Sediments (Case Study: Straszyn Lake, Poland). **2019**, 77, 605-618		15
382	The Myerson Value on Local Structures of Coalitions. **2019**, 7, 461-473		4
381	Heavy metal accumulation and phytoremediation potential by transplants of the seagrass Zostera marina in the polluted bay systems. *Marine Pollution Bulletin*, **2019**, 149, 110509	6.7	18
380	Mangrove removal: Effects on trace metal concentrations in temperate estuarine sediments. **2019**, 216, 103688		5
379	Distribution, ecological risk assessment and source identification of heavy metals in surface sediments of Huixian karst wetland, China. **2019**, 185, 109700		47
378	Geochemical distribution, fractionation, and sources of heavy metals in dammed-river sediments: the Longjiang River, Southern China. **2019**, 38, 190-201		7
377	The Role of Aquatic Macrophytes in Cadmium Phytoremediation of Contaminated Estuarine Environments. **2019**, 545-575		
376	Simultaneous remediation of sediments contaminated with sulfamethoxazole and cadmium using magnesium-modified biochar derived from Thalia dealbata. *Science of the Total Environment*, **2019**, 659, 1448-1456	10.2	29
375	Effects of metal cations on coupled birnessite structural transformation and natural organic matter adsorption and oxidation. **2019**, 250, 292-310		23
374	Rare earth elements in soil profiles of various ecosystems across Germany. **2019**, 102, 197-217		17
373	Characterization of physiochemical and anatomical features associated with enhanced phytostabilization of copper in (L.) Blume. **2019**, 21, 1423-1441		18
372	Recent advances on state-of-the-art copper (I/II) oxide as photoelectrode for solar green fuel generation: Challenges and mitigation strategies. **2019**, 582, 117104		13
371	Spatial distribution and ecological risk assessment of trace metals in surface sediments of Lake Qaroun, Egypt. **2019**, 191, 413		7
370	Dissolved boron in a brackish-water lagoon system (Chilika lagoon, India): Spatial distribution and coastal behavior. **2019**, 214, 103663		6
369	Assessments of Metals in Coastal Environments: State of Art. **2019**, 77, 162-170		2

368	Catchment soils as a factor of trace metal accumulation in sediments of the reservoir Klingenberg (eastern Ore Mountains, Germany). **2019**, 86, 1-14		7
367	Influence of structural Al species on Cd(II) capture by iron muscovite nanoparticles. *Chemosphere*, **2019**, 226, 907-914	8.4	4
366	Rare earth element and yttrium geochemistry in sinking particles and sediments of the Jiaozhou Bay, North China: Potential proxy assessment for sediment resuspension. *Marine Pollution Bulletin*, **2019**, 144, 79-91	6.7	6
365	An overview of plant microbial fuel cells (PMFCs): Configurations and applications. **2019**, 110, 402-414		60
364	Bioconcentration, Potential Health Risks, and a Receptor Prediction Model of Metal(loid)s in a Particular Agro-Ecological Area. **2019**, 9, 1902		3
363	Zinc pollution in zones dominated by algae and submerged macrophytes in Lake Taihu. *Science of the Total Environment*, **2019**, 670, 361-368	10.2	16
362	Impact of hydrotechnical works on outflow of mercury from the riparian zone to a river and input to the sea. *Marine Pollution Bulletin*, **2019**, 142, 361-376	6.7	10
361	Concentration decline in response to source shift of trace metals in Elbe River, Germany: A long-term trend analysis during 1998-2016. *Environmental Pollution*, **2019**, 250, 511-519	9.3	12
360	A methodological approach for the evaluation of soil pollution by potentially toxic trace elements. **2019**, 203, 96-107		10
359	Rare earth elements in acid sulfate soils under long-term paddy rice cultivation in Thailand. **2019**, 17, e00216		3
358	Pollution status of arable soils and stream sediments in mining areas of Abakaliki, Lower Benue Trough, Nigeria. **2019**, 16, 7869-7884		4
357	Metal bioavailability and the soil microbiome. **2019**, 155, 79-120		19
356	Biogeochemistry of dissolved carbon, major, and trace elements during spring flood periods on the Ob River. **2019**, 33, 1579-1594		13
355	Effects of dissolved oxygen, salinity, nitrogen and phosphorus on the release of heavy metals from coastal sediments. *Science of the Total Environment*, **2019**, 666, 894-901	10.2	45
354	Historical changes in the major and trace elements in the sedimentary records of Lake Qinghai, Qinghai-Tibet Plateau: implications for anthropogenic activities. **2019**, 41, 2093-2111		4
353	Effects of mixed amendments on the phytoavailability of Cd in contaminated paddy soil under a rice-rape rotation system. *Environmental Science and Pollution Research*, **2019**, 26, 14128-14136	5.1	18
352	Ecological risk assessment of metals in sediments and selective plants of Uchalli Wetland Complex (UWC)-a Ramsar site. *Environmental Science and Pollution Research*, **2019**, 26, 19136-19152	5.1	3
351	Transformation processes of metals associated with urban road dust: A critical review. **2019**, 49, 1675-1699		12

350	contaminations in waters and ranking the sites by using PROMETHEE/GAIA method. **2019**, 17, 75-84		5
349	Temporal variability of metallic properties during flood events in the Deba River urban catchment (Basque Country, Northern Spain) after the introduction of sewage treatment systems. **2019**, 78, 1		5
348	Assessment of lead and beryllium sorption to exposed stream channel sediment under varying freshwater channel conditions. **2019**, 19, 3397-3410		1
347	Intermittent flooding of organic-rich soil promotes the formation of denitrification hot moments and hot spots. **2019**, 10, e02549		17
346	Health risk assessment of potentially toxic elements in soils along the Central Elbe River, Germany. **2019**, 126, 76-88		184
345	Metal Release under Anaerobic Conditions of Urban Soils of Four European Cities. **2019**, 230, 1		8
344	Decomposition of Spartina alterniflora and concomitant metal release dynamics in a tidal environment. *Science of the Total Environment*, **2019**, 663, 867-877	10.2	4
343	Methods and Advances in the Forensic Analysis of Contaminated Rivers. **2019**, 125, 01001		
342	Emerging investigator series: mercury mobility and methylmercury formation in a contaminated agricultural flood plain: influence of flooding and manure addition. **2019**, 21, 2008-2019		5
341	Temporal variations of trace metals and a metalloid in temperate estuarine mangrove sediments. **2019**, 191, 780		5
340	Accumulation risk and sources of heavy metals in supratidal wetlands along the west coast of the Bohai Sea.. **2019**, 9, 30615-30627		6
339	Bioaccumulation of heavy metals by Cyperus malaccensis and Spartina alterniflora in a typical subtropical estuary (Min River) of Southeast China. **2019**, 19, 2061-2075		4
338	Enrichment assessment of Sb and trace metals in sediments with significant variability of background concentration in detailed scale. *Environmental Science and Pollution Research*, **2019**, 26, 2794-2805	5.1	15
337	Assessing the capacity of biochar to stabilize copper and lead in contaminated sediments using chemical and extraction methods. **2019**, 79, 91-99		20
336	Spatio-temporal variation of the suspended sediment concentration in the Pearl River Estuary observed by MODIS during 2003–2015. **2019**, 172, 22-32		19
335	Environmental challenges in a near-pristine mangrove estuary facing rapid urban and industrial development: Darwin Harbour, Northern Australia. **2019**, 25, 100438		3
334	Long-term effectiveness of sediment dredging on controlling the contamination of arsenic, selenium, and antimony. *Environmental Pollution*, **2019**, 245, 725-734	9.3	10
333	Redox chemistry of vanadium in soils and sediments: Interactions with colloidal materials, mobilization, speciation, and relevant environmental implications- A review. **2019**, 265, 1-13		58

332	Seasonal changes of lead mobility in sediments in algae- and macrophyte-dominated zones of the lake. *Science of the Total Environment*, **2019**, 660, 484-492	10.2	19
331	Common flaws in the analysis of river sediments polluted by risk elements and how to avoid them: case study in the Ploučnice River system, Czech Republic. **2019**, 19, 2020-2033		11
330	Analysis and speciation of heavy metals in the water, sediments, and drinking water plant sludge of a deep and sulfate-rich Algerian reservoir. **2019**, 191, 73		6
329	Studies on heavy mineral placers from eastern coast of Odisha, India by instrumental neutron activation analysis. **2019**, 319, 471-484		16
328	Mobility of copper and cobalt in metalliferous ecosystems: Results of a lysimeter study in the Lubumbashi Region (Democratic Republic of Congo). **2019**, 196, 208-218		8
327	Dissolved humic substances supplied as potential enhancers of Cu, Cd, and Pb adsorption by two different mangrove sediments. **2019**, 19, 1554-1565		6
326	Impact of mechanical disturbance and acidification on the metal(loid) and C, P, S mobility at the sediment water interface examined using a fractionation meso profiling ICP-QQQ-MS approach. *Science of the Total Environment*, **2019**, 651, 2130-2138	10.2	8
325	Defects and their behaviors in mineral dissolution under water environment: A review. *Science of the Total Environment*, **2019**, 651, 2208-2217	10.2	9
324	Study on the influence of soil microbial community on the long-term heavy metal pollution of different land use types and depth layers in mine. **2019**, 170, 218-226		116
323	Evaluation of potentially toxic element contamination in the riparian zone of the River Sava. **2019**, 174, 399-412		31
322	Iron speciation at the riverbank surface in wetland and potential impact on the mobility of trace metals. *Science of the Total Environment*, **2019**, 651, 443-455	10.2	10
321	Relationship between heavy metals and dissolved organic matter released from sediment by bioturbation/bioirrigation. **2019**, 75, 216-223		32
320	Speciation and Spatial Distribution of Heavy Metals (cu and Zn) in Wetland Soils of Poyang Lake (China) in Wet Seasons. **2019**, 39, 89-98		9
319	Inorganic and organic characterization of Santa Lucă salt mine peloid for quality evaluations. *Environmental Science and Pollution Research*, **2020**, 27, 15944-15958	5.1	6
318	Watershed-scale distributions of heavy metals in the hyporheic zones of a heavily polluted Maozhou River watershed, southern China. *Chemosphere*, **2020**, 239, 124773	8.4	11
317	Occurrence, migration, and allocation of arsenic in multiple media of a typical semi-enclosed bay. *Journal of Hazardous Materials*, **2020**, 384, 121313	12.8	17
316	Remobilization mechanism and release characteristics of phosphorus in saline sediments from the Pearl River Estuary (PRE), South China, based on high-resolution measurements. *Science of the Total Environment*, **2020**, 703, 134411	10.2	14
315	Effects of redox oscillations on the phosphogypsum waste in an estuarine salt-marsh system. *Chemosphere*, **2020**, 242, 125174	8.4	1

314	Differences in uptake and accumulation of copper and zinc by Salix clones under flooded versus non-flooded conditions. *Chemosphere*, **2020**, 241, 125059	8.4	9
313	Microscale distribution of trace elements: a methodology for accessing major bearing phases in stream sediments as applied to the Loire basin (France). **2020**, 20, 498-512		1
312	Influence of ferrous-metal production on mercury contamination and fractionation in farmland soil around five typical iron and steel enterprises of Tangshan, China. **2020**, 188, 109774		0
311	Assessing the Efficacy of a Sediment Remediation Program Using Benthic and Pelagic Copepod Bioassays. **2020**, 39, 492-499		
310	Biochar effects on soil chemical properties and mobilization of cadmium (Cd) and lead (Pb) in paddy soil. **2020**, 36, 320-327		21
309	Immobilization of fluoride in the sediment of mine drainage stream using loess, Northwest China. *Environmental Science and Pollution Research*, **2020**, 27, 6950-6959	5.1	3
308	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. **2020**, 135, 105376		33
307	Potential availability of trace metals in sediments in southeastern and southern Brazilian shipyard areas using the DGT technique and chemical extraction methods. *Science of the Total Environment*, **2020**, 710, 136216	10.2	9
306	Factors controlling the accumulation and ecological risk of trace metal(loid)s in river sediments in agricultural field. *Chemosphere*, **2020**, 243, 125359	8.4	24
305	Distribution characteristics, sources identification and risk assessment of n-alkanes and heavy metals in surface sediments, Tajikistan, Central Asia. *Science of the Total Environment*, **2020**, 709, 136278	10.2	18
304	Heavy metals in iron ore tailings and floodplain soils affected by the Samarco dam collapse in Brazil. *Science of the Total Environment*, **2020**, 709, 136151	10.2	36
303	A review of copper speciation and transformation in plant and soil/wetland systems. **2020**, 249-293		3
302	Environmental availability and oral bioaccessibility of Cd and Pb in anthroposols from dredged river sediments. *Environmental Science and Pollution Research*, **2020**, 27, 622-635	5.1	
301	Inter-annual variability of heavy metals pollution in surface sediments of Jiangsu coastal region, China: Case study of the Dafeng Port. *Marine Pollution Bulletin*, **2020**, 150, 110720	6.7	12
300	Investigating the Potential Impact of Louisiana Coastal Restoration on the Trace Metal Geochemistry of Constructed Marshlands. **2020**, 4, 55		1
299	Can severe drought periods increase metal concentrations in mangrove sediments? A case study in eastern Brazil. *Science of the Total Environment*, **2020**, 748, 142443	10.2	5
298	Mechanistic understanding of the adsorption and thermodynamic aspects of cationic methylene blue dye onto cellulosic olive stones biomass from wastewater. **2020**, 10, 15928		66
297	Spatial and temporal variations of antibiotics in a tidal river. **2020**, 192, 336		4

296	Past and present anthropic environmental stress reflect high susceptibility of natural freshwater ecosystems in Romania. *Environmental Pollution*, **2020**, 267, 115505	9.3	8
295	Increased antioxidative enzyme activity mediates the phytoaccumulation potential of Pb in four agroforestry tree species: a case study under municipal and industrial wastewater irrigation. **2021**, 23, 704-714		3
294	Potential Release of Zinc and Cadmium From Mine-Affected Soils Under Flooding, a Mesocosm Study. **2020**, 79, 421-434		4
293	Heavy Metal Accumulation and Release Risks in Sediments from Groundwater–River Water Interaction Zones in a Contaminated River under Restoration. **2020**, 4, 2391-2402		5
292	The bioavailability and potential ecological risk of copper and zinc in river sediment are affected by seasonal variation and spatial distribution. **2020**, 227, 105604		4
291	Geochemical transformation of soil cover and vegetation in a drained floodplain lake affected by long-term discharge of effluents from rayon industry plants, lower Don River Basin, Southern Russia. **2020**, 1		9
290	Natural attenuation in marine sediments: investigation of the effect of chloride concentration on the mobility of metals. *Environmental Science and Pollution Research*, **2021**, 28, 59180-59189	5.1	0
289	The Effect of Flooding and Drainage Duration on the Release of Trace Elements from Floodplain Soils. **2020**, 39, 2124-2135		5
288	Impacts of Regional Groundwater Flow and River Fluctuation on Floodplain Wetlands in the Middle Reach of the Yellow River. *Water (Switzerland)*, **2020**, 12, 1922	3	4
287	Study on Mercury Methylation in Phragmites australis Soil and Its Influencing Factors. **2020**, 231, 1		2
286	Assessment of As, Cd, Zn, Cu and Pb Pollution and Toxicity in River Wetland Sediments and Artificial Wetland Soils Affected by Urbanization in a Chinese Delta. **2020**, 40, 2799-2809		5
285	Alternate wetting and drying: A water-saving and ecofriendly rice production system. **2020**, 241, 106363		32
284	Zinc nutrition in chickpea (Cicer arietinum): a review. **2020**, 71, 199		19
283	Improving Long-term Monitoring of Contaminated Groundwater at Sites where Attenuation-based Remedies are Deployed. **2020**, 66, 1142-1161		2
282	Impacts of parent material on distributions of potentially toxic elements in soils from Pearl River Delta in South China. **2020**, 10, 17394		5
281	Sustainable Environmental Geotechnics. **2020**,		
280	Spatial environmental variability of natural markers and habitat use of Cathorops spixii in a neotropical estuary from otolith chemistry. **2020**, 100, 783-793		6
279	Effect of sludge amino acid–modified magnetic coal gasification slag on plant growth, metal availability, and soil enzyme activity. **2020**, 75, 515-526		2

278	Metal Fractionation in Surface Sediments of the Brahmaputra River and Implications for Their Mobilization. **2020**, 17,		1
277	Effects of natural organic matter (NOM), metal-to-sulfide ratio and Mn2+ on cadmium sulfide nanoparticle growth and colloidal stability. **2020**, 7, 3385-3404		1
276	Juvenile Oblada melanura (L. 1758) otolith shape is impacted near recreational harbours or due to settlement position in nearby sites. **2020**, 208, 104239		0
275	Improving effect of vegetation on the coastal salt marshes in Yancheng, Eastern China: A five-year observation (2013–2017). **2020**,		0
274	The effects of near-future coastal acidification on the concentrations of Cd and Pb in the crab. **2020**, 6, e04744		
273	Geochemistry of potentially hazardous elements in loess-amended mining sediment. *Chemosphere*, **2020**, 252, 126516	8.4	0
272	Selective metal leaching from technosols based on synthetic root exudate composition. **2020**, 96, 85-92		1
271	Heavy metals contamination and risk assessment in sediments of Laucala Bay, Suva, Fiji. *Marine Pollution Bulletin*, **2020**, 156, 111238	6.7	19
270	Modelling bioaccumulation of heavy metals in soil-crop ecosystems and identifying its controlling factors using machine learning. *Environmental Pollution*, **2020**, 262, 114308	9.3	65
269	Common reed (Phragmites australis (Cav.) Trin. ex Steudel) as a candidate for predicting heavy metal contamination in Lake Burullus, Egypt: A biomonitoring approach. **2020**, 148, 105787		14
268	Effect of NOM on copper sulfide nanoparticle growth, stability, and oxidative dissolution. **2020**, 7, 1163-1178		6
267	Meteorological phenomenon as a key factor controlling variability of labile particulate mercury in rivers and its inflow into coastal zone of the sea. **2020**, 184, 109355		1
266	Evaluation of the environmental and human health risk related to metallic contamination in agricultural soils in the Mediterranean semi-arid area (Saiss plain, Morocco). **2020**, 79, 1		12
265	Advanced nanomaterials for the removal of heavy metals from groundwater. **2020**, 223-240		
264	Autumn flooding disrupts seasonal nitrogen storage and impacts spring growth in Quercus texana seedlings. **2020**, 34, 813-823		1
263	Field survey study on the difference in Cd accumulation capacity of rice and wheat in rice-wheat rotation area. **2020**, 20, 2082-2092		5
262	Seasonal dynamics of metal phase distributions in the perennial tropical (Brahmaputra) river: Environmental fate and transport perspective. **2020**, 183, 109265		14
261	Mechanism of lead bioaccumulation by freshwater algae in the presence of organic acids. **2020**, 540, 119565		5

260	Identifying the sources and spatial patterns of potentially toxic trace elements (PTEs) in Shanghai suburb soils using global and local regression models. *Environmental Pollution*, **2020**, 264, 114171	9.3	11
259	The impact of seasonal waterlogging on the depth-wise distribution of major and trace metals in the soils of the eastern Ganges basin. **2020**, 189, 104510		7
258	Heavy metal accumulation, geochemical fractions, and loadings in two agricultural watersheds with distinct climate conditions. *Journal of Hazardous Materials*, **2020**, 389, 122125	12.8	15
257	Evaluation of Salix alba, Juglans regia and Populus nigra as biomonitors of PTEs in the riparian soils of the Sava River. **2020**, 192, 131		8
256	The use of Callitriche cophocarpa Sendtn. for the reclamation of Cr-contaminated freshwater habitat: benefits and limitations. *Environmental Science and Pollution Research*, **2020**, 27, 25510-25522	5.1	4
255	Spatial and Temporal Variations of Sulfur in Plant-Soil Systems of Phragmites australis and Cyperus malaccensis Marshes in a Typical Subtropical Estuary (Min River), China. **2020**, 40, 1283-1293		1
254	Enrichment, Source Apportionment and Health Risk Assessment of Soil Potentially Harmful Elements Associated with Different Land Use in Coastal Tidelands Reclamation Area, Eastern China. **2020**, 17,		2
253	Sediment water (interface) mobility of metal(loid)s and nutrients under undisturbed conditions and during resuspension. *Journal of Hazardous Materials*, **2020**, 394, 122543	12.8	8
252	Comprehensive review of the basic chemical behaviours, sources, processes, and endpoints of trace element contamination in paddy soil-rice systems in rice-growing countries. *Journal of Hazardous Materials*, **2020**, 397, 122720	12.8	48
251	Altitudinal-modulated sediment inputs rather than the land-uses determine the distribution of lead in the riparian soils of the Three Gorges Reservoir. **2021**, 43, 1123-1136		1
250	Spectral characteristics of dissolved organic matter in sediment pore water from Pearl River Estuary. **2021**, 64, 52-61		2
249	Indicator species and co-occurrence pattern of sediment bacterial community in relation to alkaline copper mine drainage contamination. **2021**, 120, 106884		9
248	Sequential fractionation and plant uptake of As, Cu, and Zn in a contaminated riparian wetland. *Environmental Pollution*, **2021**, 268, 115734	9.3	4
247	Ecological risk assessment of trace metals in soils affected by mine tailings. *Journal of Hazardous Materials*, **2021**, 403, 123852	12.8	20
246	Estuarine sediment toxicity testing with an indigenous subtropical amphipod. *Marine Pollution Bulletin*, **2021**, 162, 111797	6.7	3
245	Manganese: The overlooked contaminant in the world largest mine tailings dam collapse. **2021**, 146, 106284		28
244	Assessing the spatial distribution and ecologic and human health risks in mangrove soils polluted by Hg in northeastern Brazil. *Chemosphere*, **2021**, 266, 129019	8.4	8
243	Trace metal pollution risk assessment in urban mangrove patches: Potential linkage with the spectral characteristics of chromophoric dissolved organic matter. *Environmental Pollution*, **2021**, 272, 115996	9.3	6

242	Effects of salt marsh plants on mobility and bioavailability of REE in estuarine sediments. *Science of the Total Environment*, **2021**, 759, 144314	10.2	4
241	High cadmium pollution from sediments in a eutrophic lake caused by dissolved organic matter complexation and reduction of manganese oxide. **2021**, 190, 116711		22
240	Differences in Copper Isotope Fractionation Between Mussels (Regulators) and Oysters (Hyperaccumulators): Insights from a Ten-Year Biomonitoring Study. **2021**, 55, 324-330		5
239	Mobilization mechanisms and toxicity risk of sediment trace metals (Cu, Zn, Ni, and Pb) based on diffusive gradients in thin films: A case study in the Xizhi River basin, South China. *Journal of Hazardous Materials*, **2021**, 410, 124590	12.8	12
238	Impacts of cryogenic sampling processes on iron mineral coatings in contaminated sediment. *Science of the Total Environment*, **2021**, 765, 142796	10.2	2
237	Trace metal dynamics in an industrialized Brazilian river: A combined application of Zn isotopes, geochemical partitioning, and multivariate statistics. **2021**, 101, 313-325		2
236	From sinks to sources: The role of Fe oxyhydroxide transformations on phosphorus dynamics in estuarine soils. *Journal of Environmental Management*, **2021**, 278, 111575	7.9	14
235	Geoenvironmental Evaluation of RCA-Stabilized Dredged Marine Sediments as Embankment Material. **2021**, 33, 04020435		1
234	The impact of increased flooding occurrence on the mobility of potentially toxic elements in floodplain soil - A review. *Science of the Total Environment*, **2021**, 754, 142040	10.2	35
233	Shorebirds and Seabirds□Ecology and Conservation. **2021**, 327-358		
232	Dissolution of PbS, CuS, and ZnS in oxic waters: effects of adsorbed natural organic matter. *Environmental Science and Pollution Research*, **2021**, 28, 18102-18110	5.1	2
231	Effects of Soil pH and Mineral Nutrients on Cadmium Uptake by Rice Grain in the Pearl River Delta, China. **2021**, 106, 99-108		1
230	Use of benthic foraminifera as a proxy for monitoring heavy metal pollution in the Swarnamukhi estuary, southeast coast of India. **2021**, 3, 249-260		1
229	Simulated Aquifer Heterogeneity Leads to Enhanced Attenuation and Multiple Retention Processes of Zinc. **2021**, 55, 2939-2948		1
228	Spatial and Temporal Distribution of the Multi-element Signatures of the Estuarine Non-indigenous Bivalve Ruditapes philippinarum. **2022**, 200, 385-401		1
227	Dissimilatory Iron-Reducing Microorganisms Are Present and Active in the Sediments of the Doce River and Tributaries Impacted by Iron Mine Tailings from the Collapsed Fundão Dam (Mariana, MG, Brazil). **2021**, 11, 244		2
226	Water Extract of Rice Straw Ash: Experimental Design and Evaluation of Their Activity in the Hydrothiolation Reaction. **2021**, 12, 5041-5050		2
225	Geochemical variability in the soils of Bangladesh as affected by sources of irrigation water and inundation land types. **2021**, 3, 1		1

224	Application of Zn Isotope Compositions in Oysters to Monitor and Quantify Anthropogenic Zn Bioaccumulation in Marine Environments over Four Decades: A Mussel Watch Program Upgrade. **2021**, 1, 1035-1046		6
223	Sources and level of heavy metal contamination in the water of Awetu watershed streams, southwestern Ethiopia. **2021**, 7, e06385		3
222	Seasonal variation of potentially toxic metal contamination in Yamuna riverine ecosystem, Delhi, India. **2021**, 193, 189		4
221	Trace elements in sulfides and release to porewater from sulfide oxidation in a historical waste-rock pile, Ontario, Canada. **2021**, 126, 104899		2
220	A review of green remediation strategies for heavy metal contaminated soil. **2021**, 37, 936		29
219	An Integrative Conceptualization of Floodplain Storage. **2021**, 59, e2020RG000724		5
218	Soil metal pollution assessment in Sarcocornia salt marshes in a South American estuary. *Marine Pollution Bulletin*, **2021**, 166, 112224	6.7	2
217	Role of Fe dynamic in release of metals at Rio Doce estuary: Unfolding of a mining disaster. *Marine Pollution Bulletin*, **2021**, 166, 112267	6.7	6
216	Uptake of Cd, Pb, U, and Zn by plants in floodplain pollution hotspots contributes to secondary contamination. *Environmental Science and Pollution Research*, **2021**, 28, 51183-51198	5.1	0
215	Does soil organic matter in mollic horizons of central/east European floodplain soils have common chemical features?. **2021**, 200, 105192		0
214	Immobilization of Cadmium by Molecular Sieve and Wollastonite Is Soil pH and Organic Matter Dependent. **2021**, 18,		1
213	Machine-learning-based prediction and key factor identification of the organic carbon in riverine floodplain soils with intensive agricultural practices. **2021**, 21, 2896-2907		2
212	Identifying Controlling Factors of Bioaccumulation of Selected Metal(loid)s in Various Soil Cereal Crop Systems within Cultivated Fluvisols. **2021**, 11, 1180		0
211	Spatial prediction and mapping of water quality of Owabi reservoir from satellite imageries and machine learning models. **2021**, 24, 825-825		1
210	Influence of ponds on hazardous metal distribution in sediments at a catchment scale (agricultural critical zone, S-W France). *Journal of Hazardous Materials*, **2021**, 411, 125077	12.8	7
209	Potentially toxic elements in surface soils of the Lower Don floodplain and the Taganrog Bay coast: sources, spatial distribution and pollution assessment. **2021**, 1		0
208	Improving Plant Health Through Nutrient Remineralization in Aquaponic Systems. **2021**, 12, 683690		3
207	Plastic shed production systems: The migration of heavy metals from soil to vegetables and human health risk assessment. **2021**, 215, 112106		6

206	Differential response of Oryza sativa L. and Phragmites australis L. plants in trace elements contaminated soils under flooded and unflooded conditions. **2021**, 1		2
205	Decadal Decreases of Suspended Sediment Concentrations within the Yangtze River Estuary: A Response to Human Impacts. **2021**, 37,		0
204	Status quo of illegal dumping research: Way forward. *Journal of Environmental Management*, **2021**, 290, 112601	7.9	5
203	Distribution, sources, and ecological risks of potentially toxic elements in the Laizhou Bay, Bohai Sea: Under the long-term impact of the Yellow River input. *Journal of Hazardous Materials*, **2021**, 413, 125429	12.8	14
202	The transfer of trace metals in the soil-plant-arthropod system. *Science of the Total Environment*, **2021**, 779, 146260	10.2	5
201	Contamination of Stream Sediment With Heavy Metals in the Awetu Watershed of Southwestern Ethiopia. **2021**, 9,		12
200	Xanthium strumarium L. an Alien Invasive Species in Khyber Pakhtunkhwa (Pakistan): A Tool for Biomonitoring and Environmental Risk Assessment of Heavy Metal Pollutants. 1		2
199	The Beautiful and the Dammed: Defining Multi-Stressor Disturbance Regimes in an Atlantic River Floodplain Wetland. **2021**, 9,		0
198	Pollution characteristics and ecological risks associated with heavy metals in the Fuyang river system in North China. *Environmental Pollution*, **2021**, 281, 116994	9.3	8
197	Geochemistry and Pb isotopic proof for sources of heavy metal(loid)s in Late Cretaceous sandstones from Eastern Pontides (NE Turkey). **2021**, 80, 1		0
196	Major and trace elements in rice paddy soils in Sri Lanka with special emphasis on regions with endemic chronic kidney disease of undetermined origin. **2021**, 1		4
195	Release of heavy metals under pre-set redox potentials in Musa estuary sediments, northwestern of Persian Gulf. *Marine Pollution Bulletin*, **2021**, 168, 112390	6.7	2
194	Temporal deposition of copper and zinc in the sediments of metal removal constructed wetlands. **2021**, 16, e0255527		3
193	Unraveling the Transport and Fate of Polycyclic Aromatic Hydrocarbons Through Coupling Fluvial Geomorphic Modeling and Measured Data. **2021**, 3,		1
192	Evaluation of ecological risk, source, and spatial distribution of some heavy metals in marine sediments in the Middle and Eastern Black Sea region, Turkey. *Environmental Science and Pollution Research*, **2021**, 1	5.1	0
191	Release behavior of heavy metals from soil in ultrasound-assisted EDTA washing. **2021**, 21, 3825		0
190	Spatial distribution and solubilization characteristics of metal(loid)s in riparian soils within reservoirs along the middle Jinsha River. **2021**, 21, 3515		1
189	Accumulation and distribution of metal(loid)s in the halophytic saltmarsh shrub, Austral seablite, Suaeda australis in New South Wales, Australia. *Marine Pollution Bulletin*, **2021**, 169, 112475	6.7	3

188	Assessing trace-elements as indicators of marine finfish aquaculture across three distinct Canadian coastal regions. *Marine Pollution Bulletin*, **2021**, 169, 112557	6.7	1
187	Assessment of leaching risk of trace metals, PAHs and PCBs from a brownfield located in a flooding zone. *Environmental Science and Pollution Research*, **2021**, 1	5.1	1
186	Assessment of Human Induced Potentially Toxic Metal Aggregation and Decadal Change in Sediment Quality of River Hooghly: Implications to the Usage of Pneumatophores as a Potential Bio-indicator and Phytoremediator. **2021**, 232, 1		1
185	Water Management Alters Cadmium Isotope Fractionation between Shoots and Nodes/Leaves in a Soil-Rice System. **2021**, 55, 12902-12913		2
184	Role of intertidal microbial communities in carbon dioxide sequestration and pollutant removal: A review. *Marine Pollution Bulletin*, **2021**, 170, 112626	6.7	4
183	Geological load and health risk of heavy metals uptake by tea from soil: What are the significant influencing factors?. **2021**, 204, 105419		12
182	Modelling the attenuation of flowback chemicals for a soil-groundwater pathway from a hypothetical spill accident. *Science of the Total Environment*, **2022**, 806, 150686	10.2	2
181	Sustainable ex-situ remediation of contaminated sediment: A review. *Environmental Pollution*, **2021**, 287, 117333	9.3	11
180	Long-term contamination of the Rio Doce estuary as a result of Brazil's largest environmental disaster. **2021**,		4
179	Transformation and release of micronized Cu used as a wood preservative in treated wood in wetland soil. *Environmental Pollution*, **2021**, 287, 117189	9.3	3
178	Modelling evaluation of key cadmium transformation processes in acid paddy soil under alternating redox conditions. **2021**, 581, 120409		5
177	Effects of virgin microplastics on the transport of Cd (II) in Xiangjiang River sediment. *Chemosphere*, **2021**, 283, 131197	8.4	3
176	Spatial distribution, partitioning, ecological risk and source apportionment of potential toxic elements in water and sediments of the Hoor Al-Azim wetland and their bioaccumulation in selected commercial fish species. *Marine Pollution Bulletin*, **2021**, 172, 112875	6.7	
175	Water, sediments and fishes: First multi compartment assessment of metal pollution in a coastal environment from the SW Atlantic. *Chemosphere*, **2021**, 282, 131131	8.4	2
174	Geochemical fractionation, bioavailability, and potential risk of heavy metals in sediments of the largest influent river into Chaohu Lake, China. *Environmental Pollution*, **2021**, 290, 118018	9.3	6
173	Variations in phytoremediation potential and phytoavailability of heavy metals in different Salix genotypes subjected to seasonal flooding. *Journal of Environmental Management*, **2021**, 299, 113632	7.9	2
172	Trace element bioaccumulation in hypersaline ecosystems and implications of a global invasion. *Science of the Total Environment*, **2021**, 800, 149349	10.2	
171	Geochemistry of the redox-sensitive trace elements molybdenum, tungsten, and rhenium in the euxinic porewaters and bottom sediments of the Pettaquamscutt River estuary, Rhode Island. **2021**, 584, 120499		0

170	Adsorption-desorption behavior of heavy metals in aquatic environments: Influence of sediment, water and metal ionic properties. *Journal of Hazardous Materials*, **2022**, 421, 126743	12.8	18
169	Phytoremediation of cadmium-contaminated sediment using Hydrilla verticillata and Elodea canadensis harbor two same keystone rhizobacteria Pedosphaeraceae and Parasegetibacter. *Chemosphere*, **2022**, 286, 131648	8.4	3
168	The influence of the physicochemical properties of sediment on the content and ecotoxicity of trace elements in bottom sediments. *Chemosphere*, **2022**, 287, 132366	8.4	1
167	Trace Metals Concentration and Associated Risk Assessment in Sediment of Kelantan Coastline Area Estuaries, Malaysia. **2021**, 30, 477-496		1
166	Role of Mangroves in Pollution Abatement. **2021**, 257-278		0
165	The Role of Mineralogy and Geochemistry in Hazard Potential Assessment of Mining Areas. **2012**, 35-79		5
164	Soil–Sediment–River Connections: Catchment Processes Delivering Pressures to River Catchments. **2014**, 21-52		6
163	Impact of a severe flood on large-scale contamination of arable soils by potentially toxic elements (Serbia). **2019**, 41, 249-266		11
162	Investigation of heavy metals release from sediment with bioturbation/bioirrigation. *Chemosphere*, **2017**, 184, 235-243	8.4	42
161	Assessment of metal pollution in the Lambro Creek (Italy). **2018**, 148, 754-762		17
160	Impact of intensive land use on heavy metal concentrations and ecological risks in an urbanized river network of Shanghai. **2020**, 116, 106501		28
159	Geochemical distribution of Co, Cu, Ni, and Zn in soil profiles of Fluvisols, Luvisols, Gleysols, and Calcisols originating from Germany and Egypt. **2017**, 307, 122-138		41
158	High NaCl tolerance potential of Bruguiera cylindrica (L.) Blume compromised by mild CuSO concentration as evidenced by unique physiochemical features. *Marine Pollution Bulletin*, **2020**, 156, 111260	6.7	6
157	Mechanisms for high Cd activity in a red soil from southern China undergoing gradual reduction. **2010**, 48, 371		11
156	Estuaries as filters: the role of tidal marshes in trace metal removal. **2013**, 8, e70381		16
155	Migration and diffusion for pollutants across the sediment-water interface in lakes: A review. **2018**, 30, 1489-1508		11
154	Assessment of Heavy Metals in Mining Tailing Around Boroo and Zuunkharaa Gold Mining Areas of Mongolia. **2016**, 9, 379-389		4
153	Effects of Anthropogenic Pollution on Mangrove Biodiversity: A Review. **2013**, 04, 1428-1434		62

152	Potential Groundwater Pollution Risks by Heavy Metals from Agricultural Soil in Songon Area (Abidjan, Côte d'Ivoire). **2013**, 04, 1441-1448		5
151	Biogeochemical factors affecting mercury methylation rate in two contaminated floodplain soils.		2
150	Transformation of organic carbon, trace element, and organo-mineral colloids in the mixing zone of the largest European Arctic river.		2
149	Evaluating management-induced soil salinization in golf courses in semi-arid landscapes.		3
148	Potentially Toxic Element Contaminations and Lead Isotopic Fingerprinting in Soils and Sediments from a Historical Gold Mining Site. **2021**, 18,		1
147	A Detailed Insight into the Detrital and Diagenetic Mineralogy of Metal(oid)s: Their Origin, Distribution and Associations within Hypersaline Sediments. **2021**, 11, 1168		
146	Seasonal variations of cadmium (Cd) speciation and mobility in sediments from the Xizhi River basin, South China, based on passive sampling techniques and a thermodynamic chemical equilibrium model. **2021**, 207, 117751		0
145	Mine tailings in a redox-active environment: Iron geochemistry and potential environmental consequences. *Science of the Total Environment*, **2021**, 151050	10.2	1
144	Rates of biogeochemical phosphorus and copper redistribution in young floodplain soils.		
143	Risk assessment of contaminants leaching to groundwater in an infrastructure project. **2012**, 413-423		1
142	New insights from the use of carbon isotopes as tracers of DOC sources and DOC transport processes in headwater catchments.		
141	Distribution of cadmium in soils along the altitude of riparian zone(Fengdu-Zhongxian section) in the Three Gorges Reservoir region. **2019**, 31, 1601-1611		
140	Salinity affects pH and lead availability in two mangrove plant species. **2020**, 2, 061004		3
139	Schutz vor Belastung mit Schwermetallen. 1-29		
138	Influence Of The Large Flood On The Element Composition Of Fluvisols In The Amur River Valley. **2020**, 13, 52-64		0
137	Responses of Soil Cadmium Desorption under Different Saline Environments and Its Controlling Factors. **2021**, 11, 2175		2
136	Field observations to establish the impact of fluvial flooding on potentially toxic element (PTE) mobility in floodplain soils. *Science of the Total Environment*, **2021**, 151378	10.2	0
135	Generation of new carbon–carbon and carbon–heteroatom bonds mediated by agro-waste extracts: a review. **2022**, 20, 841		2

134	Advances and prospects in lake environment science and engineering: A review. **2020**, 32, 1278-1296		
133	Ecological risk assessment of trace metals in sediments under reducing conditions based on isotopically exchangeable pool. **2021**, 56, 171-180		
132	Modeling the Competitive Heavy Metal Sorption onto Sediments with the Use of Multifactorial Experiment. **2020**, 90, 2654-2658		
131	A short review of heavy metal pollution status in Musa fjord sediments. **2020**, 13, 1		1
130	Phosphorus Sorption Characteristics on Aluminum Oxides with Different Structures. **2020**, 35, 1005		
129	Sulfate reduction and alterability of sulfur species in sediments of an estuary with irregular hydrological regime. 68,		
128	Contamination and toxicity in a subtropical Estuarine Protected Area influenced by former mining activities. 68,		2
127	Evaluation of Sodium Adsorption in Clay Soil in the Presence of Crude Oil. **2020**, 225-234		
126	Short-term Fe reduction and metal dynamics in estuarine soils impacted by Fe-rich mine tailings. **2021**, 136, 105134		3
125	Differences in bioaccumulation of Ni and Zn by microalgae in the presence of fulvic acid. *Chemosphere*, **2021**, 291, 132838	8.4	0
124	Pollution and Risk Assessment of Heavy Metals in the Sediments and Soils around Tiegelongnan Copper Deposit, Northern Tibet, China. **2021**, 2021, 1-13		
123	Potential of anaerobic bacteria in bioremediation of metal-contaminated marine and estuarine environment. **2022**, 305-326		2
122	Assessment of role of rhizosphere process in bioaccumulation of heavy metals in fine nutritive roots of riparian mangrove species in river Hooghly: Implications to global anthropogenic environmental changes. *Marine Pollution Bulletin*, **2021**, 174, 113157	6.7	1
121	Impact of physiochemical properties, microbes and biochar on bioavailability of toxic elements in the soil: a review. **2021**, 1		1
120	Spatial distribution of trace elements associated with organic carbon along the Beiyun River basin, Beijing, China. **2021**, 37, 335-335		0
119	Metal behaviour in water, sediment and fish from the St Lucia system: implications for public health and ecosystem impact. **2021**, 193, 807		
118	Heavy metal concentrations in floodplain soils of the Innerste River and in leaves of wild blackberries (Rubus fruticosus L. agg.) growing within and outside the floodplain: the legacy of historical mining activities in the Harz Mountains (Germany). *Environmental Science and Pollution Research*, **2021**, 1	5.1	0
117	Climate-Controlled Biogeochemical Cycle of Rare Earth Elements in Soil Of Northern China. *SSRN Electronic Journal*,	1	

116	Metal Flux is Changing in Dongting Lake Due to the Operation of the Three Gorges Dam, China. *SSRN Electronic Journal*,	1	0
115	Contamination, risk and quantitative identification of nutrients and potentially toxic elements in the surface sediments of Baiyangdian Lake, North China.. **2022**, 1		1
114	Litho-climatic characteristics and its control over mangrove soil geochemistry: A macro-scale approach.. *Science of the Total Environment*, **2021**, 811, 152152	10.2	2
113	Potential Solubility of Zinc, Nickel, and Copper from the Soil of a Contaminated Industrial Site Under Flooding and Drainage. *SSRN Electronic Journal*,	1	
112	Heavy metal impression in surface sediments and factors governing the fate of macrobenthic communties in tropical estuarine ecosystem, India.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
111	Retention of heavy metals by dredged sediments and their management following land application. **2022**, 191-254		1
110	Distribution and pollution risk assessment of heavy metals in the surface sediment of the intertidal zones of the Yellow River Estuary, China.. *Marine Pollution Bulletin*, **2022**, 174, 113286	6.7	7
109	Adsorption and desorption of Cu, Zn, Pb, and Cd on surface sediments from a shallow lake, North China. **2022**,		1
108	Impact of Soil Inoculation with FZB42 on the Phytoaccumulation of Germanium, Rare Earth Elements, and Potentially Toxic Elements.. **2022**, 11,		1
107	Export of Organic Carbon from Reduced Fine-Grained Zones Governs Biogeochemical Reactivity in a Simulated Aquifer.. **2022**,		1
106	"Non-traditional" stable isotopes applied to the study of trace metal contaminants in anthropized marine environments.. *Marine Pollution Bulletin*, **2022**, 175, 113398	6.7	1
105	The accumulation and distribution of arsenic species and selected metals in the saltmarsh halophyte, spiny rush (Juncus acutus).. *Marine Pollution Bulletin*, **2022**, 175, 113373	6.7	0
104	Cadmium isotope fractionation in an intertidal soil induced by tidal pumping. **2022**, 8, 100182		
103	Bamboo biochar greater enhanced Cd/Zn accumulation in Salix psammophila under non-flooded soil compared with flooded. **2022**, 4, 1		0
102	Changes in soil iron biogeochemistry in response to mangrove dieback. 1		0
101	Mechanisms of the effects of humic acid on antibiotic resistance genes and microbial communities in Cd-contaminated soils. **2022**, 160, 62-69		1
100	The Contribution of Soil Components in Cd and Pb Competitive Adsorption in Natural Soil: From Semi-Quantitative to Quantitative. *SSRN Electronic Journal*,	1	
99	Short-Term Seawater Inundation Induces Trace Metal Mobilisation in Freshwater and Acid Sulfate Soil Environments. *SSRN Electronic Journal*,	1	

98	Quantifying and characterising metal concentrations in Derwent Estuary sediments using portable X-ray fluorescence spectrometry. 1-15		
97	Contributions of Wetland Plants on Metal Accumulation in Sediment. **2022**, 14, 3679		0
96	Soil characteristics and ecological thresholds of Suaeda salsa wetlands.		1
95	Bioaccumulation of Trace Metals in Sabellaria alveolata (Annelida: Polychaeta) and Their Controlling Factors Along the Essaouira Protected Coastal Area (Atlantic Coast of Morocco). 1		1
94	Tailored Leaching Tests as a Tool for Environmental Management of Mine Tailings Disposal at Sea. **2022**, 10, 405		0
93	Effects of sedimentary heavy metals on meiobenthic community in tropical estuaries along eastern Arabian Sea.. **2022**, 1		0
92	Evaluation of the Bioavailability of Metals in Sediment from the Southern Coastal Wetland of the Qiantang Estuary by Using Diffusive Gradients in Thin Films Technique. **2022**, 21, 375-387		0
91	Effects of spatial expansion between Phragmites australis and Cyperus malaccensis on temporal variations and bioaccumulation of vanadium in coastal marshes of the Min River estuary, Southeast China. **2022**, 42, 1		
90	Rare earth element geochemistry in soils along arid and semiarid grasslands in northern China. **2022**, 11,		0
89	Dam construction attenuates trace metal contamination in water through increased sedimentation in the Three Gorges Reservoir.. **2022**, 217, 118419		0
88	Geospatial modeling and ecological and human health risk assessments of heavy metals in contaminated mangrove soils.. *Marine Pollution Bulletin*, **2022**, 177, 113489	6.7	0
87	Coastal macrophytes as bioindicators of trace metals in the Asia's largest lagoon ecosystem.. *Marine Pollution Bulletin*, **2022**, 178, 113576	6.7	0
86	Flooding and drainage induced abiotic reactions control metal solubility in soil of a contaminated industrial site.. *Chemosphere*, **2022**, 134032	8.4	1
85	Sediment quality of the Ridracoli fresh water reservoir in Italy: Insights from aqua regia digestion and sequential extractions.. *Science of the Total Environment*, **2022**, 154167	10.2	0
84	Short-term seawater inundation induces metal mobilisation in freshwater and acid sulfate soil environments.. *Chemosphere*, **2022**, 299, 134383	8.4	0
83	River morphology redistributes potentially toxic elements in acid mine drainage-impacted river sediments: Evidence, causes, and implications. **2022**, 214, 106183		0
82	Sulfur mediated heavy metal biogeochemical cycles in coastal wetlands: From sediments, rhizosphere to vegetation. **2022**, 16, 1		2
81	Hydrochemistry of the Lhasa River, Tibetan Plateau: Spatiotemporal Variations of Major Ions Compositions and Controlling Factors Using Multivariate Statistical Approaches. *Water (Switzerland)*, **2021**, 13, 3660	3	0

80	Vegetation Regulates Element Composition of Soils by Enhancing Organic Matter Accumulation in the Salt Marshes of Liao River Delta, China. *Frontiers in Marine Science*, **2022**, 9,	4.5	0
79	From sediments to soils: changes in pore water metal bioavailability. **2022**, 4,		
78	Pollution in abiotic matrices and remedial measures. **2022**, 255-316		
77	Dynamic Responses of Trace Metal Bioaccessibility to Fluctuating Redox Conditions in Wetland Soils and Stream Sediments.		0
76	Pollution assessment and mapping of potentially toxic elements (PTE) distribution in urban wastewater fed natural wetland, Kolkata, India.. *Environmental Science and Pollution Research*, **2022** ,	5.1	0
75	Comparison of different chemical agents in the single extraction of some potentially toxic elements (PTEs) from contaminated soils. **2022**, 81,		0
74	Distributions and Influencing Factors of Dissolved Manganese in Kongsfjorden and Ny-Ålesund, Svalbard.		0
73	Copper availability governs nitrous oxide accumulation in wetland soils and stream sediments. **2022**, 327, 96-115		0
72	Zinc transport and partitioning of a mine-impacted watershed: An evaluation of water and sediment quality. **2022**, 142, 105333		
71	Metal(loid) flux change in Dongting Lake due to the operation of Three Gorges Dam, China.. *Environmental Pollution*, **2022**, 119342	9.3	0
70	Phytoextraction of rare earth elements, germanium and other trace elements as affected by fertilization and liming. *Environmental Technology and Innovation*, **2022**, 28, 102607	7	0
69	Bioaccumulation of Mercury and Other Trace Elements in the Edible Holothurian Holothuria (Halodeima) atra in Relation to Gold Mining Activities in North Sulawesi, Indonesia. *Frontiers in Marine Science*, **2022**, 9,	4.5	
68	Interactions Among Hydrogeomorphology, Vegetation, and Nutrient Biogeochemistry in Floodplain Ecosystems. **2013**, 446-460		
67	Soil Nematodes as the Silent Sufferers of Climate-Induced Toxicity: Analysing the Outcomes of Their Interactions with Climatic Stress Factors on Land Cover and Agricultural Production.. *Applied Biochemistry and Biotechnology*, **2022**,	3.2	1
66	Synergistic Effects of Calcium Peroxide and Fe3O4@BC Composites on AVS Removal, Phosphorus and Chromium Release in Sediments. *Water (Switzerland)*, **2022**, 14, 1626	3	
65	Dual diffusive gradients in the thin films (DGT) probes provide insights into speciation and mobility of sediment chromium (Cr) from the Xizhi River basin, South China. *Journal of Hazardous Materials*, **2022**, 129229	12.8	0
64	Spatial variation and ecological risk assessment for heavy metals in marsh sediments in Fuzhou reach of the Min River, Southeast China. *Marine Pollution Bulletin*, **2022**, 180, 113757	6.7	1
63	Pollution characteristics and environmental availability of toxic elements in soil from an abandoned arsenic-containing mine. *Chemosphere*, **2022**, 135189	8.4	1

62	Chemical Assessment and Evaluation of the Environmental Status of Sediments in the Vicinity of Wastewater Treatment Plants (Wwtps) in Trondheimsfjord, Norway. *SSRN Electronic Journal*,	1	
61	Effects of fiddler crab bioturbation on the geochemical migration and bioavailability of heavy metals in coastal wetlands. *Journal of Hazardous Materials*, **2022**, 437, 129380	12.8	1
60	The determination of regulating thresholds of soil pH under different cadmium stresses using a predictive model for rice safe production. *Environmental Science and Pollution Research*,	5.1	1
59	Bioavailability, (im)mobilization kinetics, and spatiotemporal patterns of arsenic and cadmium in surficial sediments of a river–estuary–coast system. *Journal of Hydrology*, **2022**, 612, 128140	6	0
58	Contamination and ecological risk assessment of heavy metals, and relationship with organic matter sources in surface sediments of the Cross River Estuary and nearshore areas. *Journal of Hazardous Materials*, **2022**, 438, 129531	12.8	4
57	Investigating the effect of Eh and pH on binding forms of Co, Cu, and Pb in wetland sediments from Zambia. *Journal of Environmental Management*, **2022**, 319, 115543	7.9	0
56	Potentially toxic metals in sediments, lake water and groundwater of the Ramsar wetlands Bakhtegan–Tashk, South Iran: Distribution and source assessment. *Environmental Technology and Innovation*, **2022**, 28, 102789	7	0
55	Legacy of war: Pedogenesis divergence and heavy metal contamination on the WWI front line a century after battle. **2022**, 73,		
54	Biomonitoring and assessment of toxic element contamination in floodplain sediments and soils using fluorescein diacetate (FDA) enzymatic activity measurements: evaluation of possibilities and limitations through the case study of the Drava River floodplain. **2022**, 194,		0
53	Evaluation of changes in the microbial community structure in the sediments of a constructed wetland over the years. **2022**, 204,		
52	Experimental evaluation of vertical metal retardation in stormwater management practices as influenced by cycles of baseline and high salinity. **2022**, 129779		
51	How Does Adjacent Land Use Influence Sediment Metals Content and Potential Ecological Risk in the Hongze Lake Wetland?. **2022**, 19, 10079		1
50	Lability, bioaccessibility, and ecological and health risks of anthropogenic toxic heavy metals in the arid calcareous soil around a nonferrous metal smelting area. **2022**, 136200		0
49	Distribution Characteristics and Risk Assessment of Heavy Metals in Soils of the Typical Karst and Non-Karst Areas. **2022**, 11, 1346		1
48	Pollution, Risk and Transfer of Heavy Metals in Soil and Rice: A Case Study in a Typical Industrialized Region in South China. **2022**, 14, 10225		
47	Effective immobilization of geogenic As and Pb in excavated marine sedimentary material by magnesia under wet–dry cycle, freeze–thaw cycle, and anaerobic exposure scenarios. **2022**, 848, 157734		1
46	Correlating floodplain geochemical profiles with archival historical mining records to establish depositional chronologies of river sediment. **2022**, 218, 106532		
45	Release and mobilization of Ni, Co, and Cr under dynamic redox changes in a geogenic contaminated soil: Assessing the potential risk in serpentine paddy environments. **2022**, 850, 158087		0

44	Ecological risks assessment of sulfur and heavy metals in sediments in a historic mariculture environment, North Yellow Sea. **2022**, 183, 114083	1
43	Developing ecological risk assessment of metals released from sediment based on sediment quality guidelines linking with the properties: A case study for Kaohsiung Harbor. **2022**, 852, 158407	3
42	Contribution of components in natural soil to Cd and Pb competitive adsorption: Semi-quantitative to quantitative analysis. **2023**, 441, 129883	2
41	The Geochemical Signature of Sediments from Urban Stormwater Infiltration Basins.	0
40	Data analysis of the Gumusler Dam Lake Reservoir soils using multivariate statistical methods (Nigde, T□kiye).	0
39	Prevalence of Microplastics, Antibiotic Resistant Genes and Microplastic Associated Biofilms in Estuary - A Review.	0
38	Risk assessment and binding mechanisms of potentially toxic metals in sediments from different water levels in a coastal wetland. **2022**,	0
37	Comparative zinc tolerance and phytoremediation potential of four biofuel plant species. 1-15	1
36	Impacts of climate change on metal leaching and partitioning for submarine mine tailings disposal. **2022**, 184, 114197	0
35	Applicability of alkaline waste and by-products as low cost alternative neutralizers for acidic soils. **2022**,	0
34	Spatial Pattern, Sources Identification, and Risk Assessment of Heavy Metals in a Typical Soda Soil from Bayannur, Northeastern China. **2022**, 19, 13880	0
33	Effects of shipwrecks on spatiotemporal dynamics of metal/loids in sediments and seafood safety in the Bay of Bengal. **2022**, 315, 120452	0
32	Metal contamination in sediments of dam reservoirs: A multi-facetted generic risk assessment. **2023**, 310, 136760	0
31	Assessing the ecological risk and ecotoxicity of the microbially mediated restoration of heavy metal-contaminated river sediment. **2023**, 858, 159732	0
30	Climate-related soil saturation and peatland development may have conditioned surface water brownification at a central European lake for millennia. **2023**, 858, 159982	0
29	Solid Carriers of Potentially Toxic Elements and Their Fate in Stream Sediments in the Area Affected by Iron Ore Mining and Processing. **2022**, 12, 1424	0
28	Geochemical characteristics and risk assessment of minor elements in subsurface soils of abandoned mine-rich Shikoku region, Japan.	0
27	Copper, zinc, and chromium accumulation in aquatic macrophytes from a highly polluted river of Argentina.	0

26	Leaching Characteristics of Potentially Toxic Metals from Tailings at Lujiang Alum Mine, China. **2022**, 19, 17063	0
25	Zinc Localization and Speciation in Rice Grain Under Variable Nutrient Limitation Conditions.	0
24	Arsenic in Gold Mining Wastes: An Environmental and Human Health Threat in Ghana. **2023**, 49-83	0
23	In Situ Remediation Technology for Heavy Metal Contaminated Sediment: A Review. **2022**, 19, 16767	0
22	Mobility, Bioavailability, and Toxicity of Vanadium Regulated by Physicochemical and Biological Properties of the Soil.	0
21	A state-of-the-art review on cadmium uptake, toxicity, and tolerance in rice: From physiological response to remediation process. **2023**, 220, 115098	1
20	Assessment of heavy metal and organic pollution of a salmonid ecosystem: Case of the Oued Guigou River, Middle Atlas (Morocco). **2023**, 28,	0
19	SystemLink: Moving beyond Aquatic–Terrestrial Interactions to Incorporate Food Web Studies.	0
18	Controls on sulfide accumulation in coastal soils during simulated sea level rise. **2023**, 347, 88-101	0
17	Geochemical speciation, ecological risk, and source identification of heavy metal(loid)s in sediments and waters from Musa Estuary, Persian Gulf. **2023**, 190, 114836	0
16	Geochemical controls on the distribution and bioavailability of heavy metals in sediments from Yangtze River to the East China Sea: Assessed by sequential extraction versus diffusive gradients in thin-films (DGT) technique. **2023**, 452, 131253	0
15	Transformation kinetics of exogenous nickel in a paddy soil during anoxic-oxic alteration: Roles of organic matter and iron oxides. **2023**, 452, 131246	0
14	Environmental Factors Influence the Effects of Biochar on the Bioavailability of Cd and Pb in Soil Under Flooding Condition. **2023**, 234,	1
13	Environmental and Health Risk Assessment Due to Potentially Toxic Elements in Soil near Former Antimony Mine in Western Serbia. **2023**, 12, 421	2
12	Bioaccumulation and Health Risk Assessment of Metals in Small-Sized Fish (Rhodeus sinensis, Ctenogobius giurinus) and Mussel (Cristaria plicata) from a River Reservoir, Southwest China.	0
11	NaCl effect on Cd accumulation and cell compartmentalization in barley. **2023**, 30, 49215-49225	0
10	Assessment and Management of Mercury Leaching from a Riverbank. **2023**, 11, 179	0
9	Environmental risk associated with accumulation of toxic metalloids in soils of the Odra River floodplain—case study of the assessment based on total concentrations, fractionation and geochemical indices.	0

8	Distribution and storage of uranium, and its decay products, in floodplain sediments. **2023**, 324, 121356	0
7	Profile Distributions of Potentially Toxic Metal(loid)s in Soils of the Middle Odra Floodplain (SW Poland). **2023**, 20, 4196	0
6	Temporal patterns of nickel transfer from soil to rice in terraced paddy fields affected by serpentinite.	0
5	Status of Ecosystem Services in Abandoned Mining Areas in the Iberian Peninsula: Management Proposal. **2023**, 11, 275	0
4	The Effect of Reduced and Conventional Tillage Systems on Soil Aggregates and Organic Carbon Parameters of Different Soil Types. **2023**, 13, 818	0
3	Influence of relict milldams on riparian sediment biogeochemistry.	0
2	How natural attenuation can benefit the environment: a case study of a water reservoir in Brazil.	0
1	210Pb geochronology and metal concentrations in sediment cores recovered in the Alvarado Lagoon system, Veracruz, Mexico. **2023**, 138709	0