Tatiana Minkina

List of Publications by Year
in descending order

294	5,876	117453	149479
papers	citations	34 h-index	56 g-index

342	342	342	3152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Developments in Enzymatic Antioxidant Defence Mechanism in Plants with Special Reference to Abiotic Stress. Biology, 2021, 10, 267.	1.3	228
2	ZnO and CuO nanoparticles: a threat to soil organisms, plants, and human health. Environmental Geochemistry and Health, 2020, 42, 147-158.	1.8	186
3	Effects of zinc-oxide nanoparticles on soil, plants, animals and soil organisms: A review. Environmental Nanotechnology, Monitoring and Management, 2018, 9, 76-84.	1.7	178
4	Effect of nanoparticles on crops and soil microbial communities. Journal of Soils and Sediments, 2018, 18, 2179-2187.	1.5	142
5	Toxicity of copper oxide nanoparticles on spring barley (Hordeum sativum distichum). Science of the Total Environment, 2018, 645, 1103-1113.	3.9	129
6	Accumulation of nanoparticles in the soil-plant systems and their effects on human health. Annals of Agricultural Sciences, 2020, 65, 137-143.	1.1	129
7	The mechanisms of biochar interactions with microorganisms in soil. Environmental Geochemistry and Health, 2020, 42, 2495-2518.	1.8	125
8	Effects of Copper Nanoparticles (CuO NPs) on Crop Plants: a Mini Review. BioNanoScience, 2018, 8, 36-42.	1.5	119
9	Coping with the Challenges of Abiotic Stress in Plants: New Dimensions in the Field Application of Nanoparticles. Plants, 2021, 10, 1221.	1.6	112
10	Recent Trends in Nano-Fertilizers for Sustainable Agriculture under Climate Change for Global Food Security. Nanomaterials, 2022, 12, 173.	1.9	103
11	Effects of Silicon and Silicon-Based Nanoparticles on Rhizosphere Microbiome, Plant Stress and Growth. Biology, 2021, 10, 791.	1.3	92
12	Soil contamination with heavy metals as a potential and real risk to the environment. Journal of Geochemical Exploration, 2014, 144, 241-246.	1.5	63
13	Nano-Enabled Products: Challenges and Opportunities for Sustainable Agriculture. Plants, 2021, 10, 2727.	1.6	62
14	Effects of Zinc Oxide Nanoparticles on Physiological and Anatomical Indices in Spring Barley Tissues. Nanomaterials, 2021, 11, 1722.	1.9	58
15	Characteristics of Leaf Stomata and Their Relationship with Photosynthesis in Saccharum officinarum Under Drought and Silicon Application. ACS Omega, 2020, 5, 24145-24153.	1.6	56
16	Plant Nutrition under Climate Change and Soil Carbon Sequestration. Sustainability, 2022, 14, 914.	1.6	55
17	Modulation of Cellular Redox Status and Antioxidant Defense System after Synergistic Application of Zinc Oxide Nanoparticles and Salicylic Acid in Rice (Oryza sativa) Plant under Arsenic Stress. Plants, 2021, 10, 2254.	1.6	53
18	Morphological and anatomical changes of Phragmites australis Cav. due to the uptake and accumulation of heavy metals from polluted soils. Science of the Total Environment, 2018, 636, 392-401.	3.9	51

#	Article	IF	Citations
19	Assessing the effect of heavy metals from the Novocherkassk power station emissions on the biological activity of soils in the adjacent areas. Journal of Geochemical Exploration, 2017, 174, 70-78.	1.5	50
20	Environmental pollution of soil with PAHs in energy producing plants zone. Science of the Total Environment, 2019, 655, 232-241.	3.9	50
21	Current understanding of the influence of environmental factors on SARS-CoV-2 transmission, persistence, and infectivity. Environmental Science and Pollution Research, 2021, 28, 6267-6288.	2.7	49
22	Nanotechnology in the Restoration of Polluted Soil. Nanomaterials, 2022, 12, 769.	1.9	49
23	Method of determining loosely bound compounds of heavy metals in the soil. MethodsX, 2018, 5, 217-226.	0.7	48
24	Forms of heavy metal compounds in soils of the steppe zone. Eurasian Soil Science, 2008, 41, 708-716.	0.5	47
25	Ecological resistance of the soilâ€“plant system to contamination by heavy metals. Journal of Geochemical Exploration, 2012, 123, 33-40.	1.5	45
26	Effect of ZnO Nanoparticles on Growth and Biochemical Responses of Wheat and Maize. Plants, 2021, 10, 2556.	1.6	45
27	Mg-based bulk metallic glass composite with high bio-corrosion resistance and excellent mechanical properties. Intermetallics, 2012, 29, 56-60.	1.8	44
28	Role of Engineered Carbon Nanoparticles (CNPs) in Promoting Growth and Metabolism of Vigna radiata (L.) Wilczek: Insights into the Biochemical and Physiological Responses. Plants, 2021, 10, 1317.	1.6	42
29	Fractional and group composition of the Mn, Cr, Ni, and Cd compounds in the soils of technogenic landscapes in the impact zone of the Novocherkassk Power Station. Eurasian Soil Science, 2013, 46, 375-385.	0.5	41
30	Anatomical and ultrastructural responses of Hordeum sativum to the soil spiked by copper. Environmental Geochemistry and Health, 2020, 42, 45-58.	1.8	41
31	Comprehensive study of Pb (II) speciation in soil by X-ray absorption spectroscopy (XANES and EXAFS) and sequential fractionation. Journal of Soils and Sediments, 2016, 16, 1183-1192.	1.5	40
32	Global footprints of organochlorine pesticides: a pan-global survey. Environmental Geochemistry and Health, 2022, 44, 149-177.	1.8	39
33	Sustainable Approach and Safe Use of Biochar and Its Possible Consequences. Sustainability, 2021, 13, 10362.	1.6	39
34	Chemical Soil-Biological Engineering Theoretical Foundations, Technical Means, and Technology for Safe Intrasoil Waste Recycling and Long-Term Higher Soil Productivity. ACS Omega, 2020, 5, 17553-17564.	1.6	38
35	Roles of Nitric Oxide in Conferring Multiple Abiotic Stress Tolerance in Plants and Crosstalk with Other Plant Growth Regulators. Journal of Plant Growth Regulation, 2021, 40, 2303-2328.	2.8	38
36	Effect of Foliar Fertigation of Chitosan Nanoparticles on Cadmium Accumulation and Toxicity in Solanum lycopersicum. Biology, 2021, 10, 666.	1.3	38

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37	Insights on the bioremediation technologies for pesticide-contaminated soils. Environmental Geochemistry and Health, 2022, 44, 1329-1354.	1.8	36
38	Effects of ZnO nanoparticles and its bulk form on growth, antioxidant defense system and expression of oxidative stress related genes in Hordeum vulgare L. Chemosphere, 2022, 287, 132167.	4.2	36
39	Effect of nanomaterials on remediation of polycyclic aromatic hydrocarbons-contaminated soils: A review. Journal of Environmental Management, 2021, 284, 112023.	3.8	35
40	Nanofertilizer Possibilities for Healthy Soil, Water, and Food in Future: An Overview. Frontiers in Plant Science, 2022, 13, .	1.7	35
41	The role of biochar-microbe interaction in alleviating heavy metal toxicity in Hordeum vulgare L. grown in highly polluted soils. Applied Geochemistry, 2019, 104, 93-101.	1.4	34
42	Reinforcing the bulwark: unravelling the efficient applications of plant phenolics and tannins against environmental stresses. Heliyon, 2022, 8, e09094.	1.4	34
43	Interaction of heavy metals with the organic matter of an ordinary chernozem. Eurasian Soil Science, 2006, 39, 720-726.	0.5	33
44	Interaction of Copper-Based Nanoparticles to Soil, Terrestrial, and Aquatic Systems: Critical Review of the State of the Science and Future Perspectives. Reviews of Environmental Contamination and Toxicology, 2019, 252, 51-96.	0.7	33
45	Urban soil geochemistry of an intensively developing Siberian city: A case study of Tyumen, Russia. Journal of Environmental Management, 2019, 239, 366-375.	3.8	33
46	Geochemical assessment and spatial analysis of heavy metals pollution around coal-fired power station. Environmental Geochemistry and Health, 2020, 42, 4087-4100.	1.8	33
47	Recent Development in Micropropagation Techniques for Rare Plant Species. Plants, 2020, 9, 1733.	1.6	33
48	Environmental and human health risk assessment of potentially toxic elements in soils around the largest coal-fired power station in Southern Russia. Environmental Geochemistry and Health, 2021, 43, 2285-2300.	1.8	33
49	Drought Tolerant Enterobacter sp./Leclercia adecarboxylata Secretes Indole-3-acetic Acid and Other Biomolecules and Enhances the Biological Attributes of Vigna radiata (L.) R. Wilczek in Water Deficit Conditions. Biology, 2021, 10, 1149.	1.3	33
50	Phylogenetic analysis of hyperaccumulator plant species for heavy metals and polycyclic aromatic hydrocarbons. Environmental Geochemistry and Health, 2021, 43, 1629-1654.	1.8	32
51	Influence of PAH contamination on soil ecological status. Journal of Soils and Sediments, 2018, 18, 2368-2378.	1.5	31
52	Nanoparticles induced stress and toxicity in plants. Environmental Nanotechnology, Monitoring and Management, 2021, 15, 100457.	1.7	31
53	Influence of Silicon on Biocontrol Strategies to Manage Biotic Stress for Crop Protection, Performance, and Improvement. Plants, 2021, 10, 2163.	1.6	31
54	Surfactant pollution, an emerging threat to ecosystem: Approaches for effective bacterial degradation. Journal of Applied Microbiology, 2022, 133, 1229-1244.	1.4	31

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55	Heavy metals in the soilâ€“plant system of the Don River estuarine region and the Taganrog Bay coast. Journal of Soils and Sediments, 2017, 17, 1474-1491.	1.5	30
56	Comparative hydrochemical assessment of groundwater quality from different aquifers for irrigation purposes using IWQI: A case-study from Masis province in Armenia. Groundwater for Sustainable Development, 2020, 11, 100459.	2.3	30
57	Interactive Role of Silicon and Plantâ€“Rhizobacteria Mitigating Abiotic Stresses: A New Approach for Sustainable Agriculture and Climate Change. Plants, 2020, 9, 1055.	1.6	30
58	Adsorption features of Cu(II), Pb(II), and Zn(II) by an ordinary chernozem from nitrate, chloride, acetate, and sulfate solutions. Eurasian Soil Science, 2014, 47, 10-17.	0.5	29
59	extractive fractionation. Geochemistry International, 2016, 54, 197-204.	0.2	29
60	Pollution status and human health risk assessment of potentially toxic elements and polycyclic aromatic hydrocarbons in urban street dust of Tyumen city, Russia. Environmental Geochemistry and Health, 2022, 44, 409-432.	1.8	29
61	Biosynthesis and beneficial effects of microbial gibberellins on crops for sustainable agriculture. Journal of Applied Microbiology, 2022, 132, 1597-1615.	1.4	29
62	Molybdenum-induced endogenous nitric oxide (NO) signaling coordinately enhances resilience through chlorophyll metabolism, osmolyte accumulation and antioxidant system in arsenate stressed-wheat (Triticum aestivum L.) seedlings. Environmental Pollution, 2022, 292, 118268.	3.7	28
63	Combined approach for fractioning metal compounds in soils. Eurasian Soil Science, 2008, 41, 1171-1179.	0.5	27
64	Determining the speciation of Zn in soils around the sediment ponds of chemical plants by XRD and XAFS spectroscopy and sequential extraction. Science of the Total Environment, 2018, 634, 1165-1173.	3.9	27
65	Levels, sources, and toxicity assessment of polycyclic aromatic hydrocarbons in urban topsoils of an intensively developing Western Siberian city. Environmental Geochemistry and Health, 2020, 42, 325-341.	1.8	27
66	The toxic effect of CuO of different dispersion degrees on the structure and ultrastructure of spring barley cells (Hordeum sativum distichum). Environmental Geochemistry and Health, 2021, 43, 1673-1687.	1.8	27
67	Spatiotemporal change detection of carbon storage and sequestration in an arid ecosystem by integrating Google Earth Engine and InVEST (the Jiroft plain, Iran). International Journal of Environmental Science and Technology, 2022, 19, 5929-5944.	1.8	27
68	Zinc Oxide Nanoparticles Improve Salt Tolerance in Rice Seedlings by Improving Physiological and Biochemical Indices. Agriculture (Switzerland), 2022, 12, 1014.	1.4	27
69	New alternative method of benzo[a]pyrene extractionfrom soils and its approbation in soil under technogenic pressure. Journal of Soils and Sediments, 2016, 16, 1323-1329.	1.5	26
70	Forms of Cu (II), Zn (II), and Pb (II) compounds in technogenically transformed soils adjacent to the Karabashmed copper smelter. Journal of Soils and Sediments, 2018, 18, 2217-2228.	1.5	26
71	Insight into the Prospects for Nanotechnology in Wheat Biofortification. Biology, 2021, 10, 1123.	1.3	26
72	Effect of the particle-size distribution on the adsorption of copper, lead, and zinc by Chernozemic soils of Rostov oblast. Eurasian Soil Science, 2011, 44, 1193-1200.	0.5	25

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73	Sustainable Amelioration of Heavy Metals in Soil Ecosystem: Existing Developments to Emerging Trends. Minerals (Basel, Switzerland), 2022, 12, 85.	0.8	25
74	Microplastic Pollution: An Emerging Threat to Terrestrial Plants and Insights into Its Remediation Strategies. Plants, 2022, 11, 340.	1.6	25
75	The identification of phytoextraction potential of Melilotus officinalis and Amaranthus retroflexus growing on copper- and molybdenum-polluted soils. Environmental Geochemistry and Health, 2021, 43, 1327-1335.	1.8	24
76	Bacillus spp. as Bio-factories for Antifungal Secondary Metabolites: Innovation Beyond Whole Organism Formulations. Microbial Ecology, 2023, 86, 1-24.	1.4	24
77	A review on salinity adaptation mechanism and characteristics of Populus euphratica, a boon for arid ecosystems. Acta Ecologica Sinica, 2016, 36, 497-503.	0.9	23
78	Dynamics of benzo[Î±]pyrene accumulation in soils under the influence of aerotechnogenic emissions. Eurasian Soil Science, 2017, 50, 95-105.	0.5	23
79	Monitoring of benzo[a]pyrene content in soils under the effect of long-term technogenic poluttion. Journal of Geochemical Exploration, 2017, 174, 100-106.	1.5	23
80	The Synthesis of Organoclays Based on Clay Minerals with Different Structural Expansion Capacities. Minerals (Basel, Switzerland), 2021, 11, 707.	0.8	23
81	New method for benzo[a]pyrene analysis in plant material using subcritical water extraction. Journal of Geochemical Exploration, 2014, 144, 267-272.	1.5	22
82	Polycyclic aromatic hydrocarbons, antibiotic resistance genes, toxicity in the exposed to anthropogenic pressure soils of the Southern Russia. Environmental Research, 2021, 194, 110715.	3.7	22
83	Speciation of copper and zinc compounds in artificially contaminated chernozem by X-ray absorption spectroscopy and extractive fractionation. Journal of Geochemical Exploration, 2014, 144, 306-311.	1.5	21
84	Influence of Silver Nanoparticles on the Biological Indicators of Haplic Chernozem. Plants, 2021, 10, 1022.	1.6	21
85	Superior elimination of Cr(VI) using polydopamine functionalized attapulgite supported nZVI composite: Behavior and mechanism. Chemosphere, 2022, 287, 131970.	4.2	21
86	Comparative analysis of mono- and polyelement adsorption of copper, lead, and zinc by an ordinary chernozem from nitrate and acetate solutions. Eurasian Soil Science, 2010, 43, 748-756.	0.5	20
87	Fractional and group composition of zinc and lead compounds as an indicator of the environmental status of soils. Eurasian Soil Science, 2014, 47, 511-518.	0.5	20
88	Ion association in water solution of soil and vadose zone of chestnut saline solonetz as a driver of terrestrial carbon sink. Solid Earth, 2016, 7, 415-423.	1.2	20
89	The effect of technogenic emissions on the heavy metals accumulation by herbaceous plants. Environmental Monitoring and Assessment, 2018, 190, 124.	1.3	20
90	Method for hydrophytic plant sample preparation for light and electron microscopy (studies on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.7	20

#	Article	IF	Citations
91	Polycyclic Aromatic Hydrocarbons in Urban Soils Within the Different Land Use: A Case Study of Tyumen, Russia. Polycyclic Aromatic Compounds, 2020, 40, 1251-1265.	1.4	20
92	Speciation of Zn and Cu in Technosol and evaluation of a sequential extraction procedure using XAS, XRD and SEMâ€“EDX analyses. Environmental Geochemistry and Health, 2021, 43, 2301-2315.	1.8	20
93	Nanobionics in Crop Production: An Emerging Approach to Modulate Plant Functionalities. Plants, 2022, 11, 692.	1.6	20
94	A Review on Coagulation/Flocculation in Dewatering of Coal Slurry. Water (Switzerland), 2022, 14, 918.	1.2	20
95	Recent advances in metabolic engineering of microorganisms for advancing lignocellulose-derived biofuels. Bioengineered, 2022, 13, 8135-8163.	1.4	20
96	Effects of benzo[a]pyrene toxicity on morphology and ultrastructure of Hordeum sativum. Environmental Geochemistry and Health, 2021, 43, 1551-1562.	1.8	19
97	The influence of long-term Zn and Cu contamination in Spolic Technosols on water-soluble organic matter and soil biological activity. Ecotoxicology and Environmental Safety, 2021, 208, 111471.	2.9	19
98	Transformation of copper oxide and copper oxide nanoparticles in the soil and their accumulation by Hordeum sativum. Environmental Geochemistry and Health, 2021, 43, 1655-1672.	1.8	19
99	The Effect of Granular Activated Carbon and Biochar on the Availability of Cu and Zn to Hordeum sativum Distichum in Contaminated Soil. Plants, 2021, 10, 841.	1.6	19
100	Green synthesis of reduced graphene oxide-CoFe2O4 nanocomposite as a highly efficient visible-light-driven catalyst in photocatalysis and photo Fenton-like reaction. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 270, 115223.	1.7	19
101	Molecular-structural analysis of the Cu (II) ion in ordinary chernozem: Evidence from XANES spectroscopy and methods of molecular dynamics. Doklady Earth Sciences, 2013, 449, 418-421.	0.2	18
102	Copper Adsorption by Chernozem Soils and Parent Rocks in Southern Russia. Geochemistry International, 2018, 56, 266-275.	0.2	18
103	Study of copper, lead, and zinc speciation in the Haplic Chernozem surrounding coal-fired power plant. Applied Geochemistry, 2019, 104, 102-108.	1.4	18
104	Impact of soil organic matter on calcium carbonate equilibrium and forms of Pb in water extracts from Kastanozem complex. Journal of Soils and Sediments, 2019, 19, 2717-2728.	1.5	18
105	Bioindication of soil pollution in the delta of the Don River and the coast of the Taganrog Bay with heavy metals based on anatomical, morphological and biogeochemical studies of macrophyte (Typha) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	18
106	The role of soil's particle-size fractions in the adsorption of heavy metals. Eurasian Journal of Soil Science, 2014, 3, 197.	0.2	18
107	Heavy metals in soils and plants of the don river estuary and the Taganrog Bay coast. Eurasian Soil Science, 2017, 50, 1033-1047.	0.5	17
108	Thermodynamic mathematical model of the Kastanozem complex and new principles of sustainable semiarid protective silviculture management. Environmental Research, 2021, 194, 110605.	3.7	17

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109	Pollution impact on microbial communities composition in natural and anthropogenically modified soils of Southern Russia. Microbiological Research, 2022, 254, 126913.	2.5	17
110	Fabrication and characterization of high-performance forward-osmosis membrane by introducing manganese oxide incited graphene quantum dots. Journal of Environmental Management, 2022, 305, 114335.	3.8	17
111	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. Environmental Geochemistry and Health, 2022, 44, 349-368.	1.8	16
112	Spatial distribution of heavy metals in soils of the flood plain of the Seversky Donets River (Russia) based on geostatistical methods. Environmental Geochemistry and Health, 2022, 44, 319-333.	1.8	16
113	Soil PAHs contamination effect on the cellular and subcellular organelle changes of Phragmites australis Cav.. Environmental Geochemistry and Health, 2021, 43, 2407-2421.	1.8	16
114	Impacts of land use and land cover change on the interactions among multiple soil-dependent ecosystem services (case study: Jiroft plain, Iran). Environmental Geochemistry and Health, 2021, 43, 3977-3996.	1.8	16
115	PAHs accumulation in soil-plant system of Phragmites australis Cav. in soil under long-term chemical contamination. Eurasian Journal of Soil Science, 2020, 9, 242-253.	0.2	16
116	Phytoremediation of copper-contaminated soil by Artemisia absinthium: comparative effect of chelating agents. Environmental Geochemistry and Health, 2022, 44, 1203-1215.	1.8	16
117	Effect of attendant anions on zinc adsorption and transformation in chernozem. Journal of Geochemical Exploration, 2014, 144, 226-229.	1.5	15
118	Possibilities of chemical fractionation and X-ray spectral analysis in estimating the speciation of Cu2+ with soil solid-phase components. Applied Geochemistry, 2019, 102, 55-63.	1.4	15
119	Toxicity assessment of metal oxide nanoparticles on terrestrial plants. Comprehensive Analytical Chemistry, 2019, , 189-207.	0.7	15
120	Copper phytoextraction and phytostabilization potential of wild plant species growing in the mine polluted areas of Armenia. Geochemistry: Exploration, Environment, Analysis, 2019, 19, 155-163.	0.5	15
121	Assessment of phytoremediation capacity of three halophytes: Suaeda monoica, Tamarix indica and Cressa critica. Biologia Futura, 2020, 71, 301-312.	0.6	15
122	The influence of application of biochar and metal-tolerant bacteria in polluted soil on morpho-physiological and anatomical parameters of spring barley. Environmental Geochemistry and Health, 2021, 43, 1477-1489.	1.8	15
123	Metal-Based Green Synthesized Nanoparticles: Boon for Sustainable Agriculture and Food Security. IEEE Transactions on Nanobioscience, 2022, 21, 44-54.	2.2	15
124	Interaction of zinc oxide nanoparticles with soil: Insights into the chemical and biological properties. Environmental Geochemistry and Health, 2022, 44, 221-234.	1.8	15
125	The effect of combined pollution by PAHs and heavy metals on the topsoil microbial communities of Spolic Technosols of the lake Atamanskoe, Southern Russia. Environmental Geochemistry and Health, 2022, 44, 1299-1315.	1.8	15
126	Realizing United Nations Sustainable Development Goals for Greener Remediation of Heavy Metals-Contaminated Soils by Biochar: Emerging Trends and Future Directions. Sustainability, 2021, 13, 13825.	1.6	15

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127	Treatment of textile industry wastewater by using high-performance forward osmosis membrane tailored with alpha-manganese dioxide nanoparticles for fertigation. Environmental Science and Pollution Research, 2022, 29, 80032-80043.	2.7	15
128	Group composition of heavy metal compounds in the soils contaminated by emissions from the Novocherkassk power station. Eurasian Soil Science, 2009, 42, 1533-1542.	0.5	14
129	Ecological evaluation of polymetallic soil quality: the applicability of culture-dependent methods of bacterial communities studying. Journal of Soils and Sediments, 2019, 19, 3127-3138.	1.5	14
130	Effects of typical flotation reagent on microbial toxicity and nickel bioavailability in soil. Chemosphere, 2020, 240, 124913.	4.2	14
131	Comparison of Heavy Metal Content in Artemisia austriaca in Various Impact Zones. ACS Omega, 2020, 5, 23393-23400.	1.6	14
132	Assessment of Ecological Condition of Haplic Chernozem Calcic Contaminated with Petroleum Hydrocarbons during Application of Bioremediation Agents of Various Natures. Land, 2021, 10, 169.	1.2	14
133	Metal(loid) nanosorbents in restoration of polluted soils: geochemical, ecotoxicological, and remediation perspectives. Environmental Geochemistry and Health, 2022, 44, 235-246.	1.8	14
134	ACCUMULATION AND DISTRIBUTION OF HEAVY METALS IN PLANTS WITHIN THE TECHNOGENESIS ZONE. Environmental Engineering and Management Journal, 2014, 13, 1307-1315.	0.2	14
135	Plant contamination by heavy metals in the impact zone of Novocherkassk Power Station in the south of Russia. Journal of Soils and Sediments, 2016, 16, 1383-1391.	1.5	13
136	Changes of soil hydraulic properties during the decomposition of organic waste in a coarse textured soil. Journal of Geochemical Exploration, 2017, 174, 66-69.	1.5	13
137	Time effect on the stabilization of technogenic copper compounds in solid phases of Haplic Chernozem. Science of the Total Environment, 2018, 626, 1100-1107.	3.9	13
138	Ecologicalâ€“Geochemical Studies of Technogenic Soils in the Flood Plain Landscapes of the Severskiy Donets, Lower Don Basin. Geochemistry International, 2018, 56, 992-1002.	0.2	13
139	Phytoaccumulation of Benzo[a]pyrene by the Barley in Artificially Contaminated Soil. Polycyclic Aromatic Compounds, 2019, 39, 395-403.	1.4	13
140	Accumulation and transformation of benzo[a]pyrene in Haplic Chernozem under artificial contamination. Environmental Geochemistry and Health, 2020, 42, 2485-2494.	1.8	13
141	Impact of humic acid on degradation of benzo(a)pyrene polluted Haplic Chernozem triggered by modified Fenton-like process. Environmental Research, 2020, 190, 109948.	3.7	13
142	Impact of Metal-Based Nanoparticles on Cambisol Microbial Functionality, Enzyme Activity, and Plant Growth. Plants, 2021, 10, 2080.	1.6	13
143	Understanding the phytotoxic impact of Al3+, nano-size, and bulk Al2O3 on growth and physiology of maize (Zea mays L.) in aqueous and soil media. Chemosphere, 2022, 300, 134555.	4.2	13
144	Effect of an attendant anion on the balance of cations in the soil-solution system with an ordinary chernozem as an example. Eurasian Soil Science, 2014, 47, 772-780.	0.5	12

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145	Ions association in soil solution as the cause of lead mobility and availability after application of phosphogypsum to chernozem. Journal of Geochemical Exploration, 2017, 182, 185-192.	1.5	12
146	Accumulation of Heavy Metals by Forb Steppe Vegetation According to Long-Term Monitoring Data. Arid Ecosystems, 2018, 8, 190-202.	0.2	12
147	Molecular characterization of Zn in Technosols using X-ray absorption spectroscopy. Applied Geochemistry, 2019, 104, 168-175.	1.4	12
148	Assessing the toxicity and accumulation of bulk- and nano-CuO in Hordeum sativum L. Environmental Geochemistry and Health, 2021, 43, 2443-2454.	1.8	12
149	Soil organic matter and biological activity under long-term contamination with copper. Environmental Geochemistry and Health, 2022, 44, 387-398.	1.8	12
150	TRANSFORMATION OF TECHNOGENIC Cu AND Zn COMPOUNDS IN CHERNOZEM. Environmental Engineering and Management Journal, 2015, 14, 481-486.	0.2	12
151	A review on nanobioremediation approaches for restoration of contaminated soil. Eurasian Journal of Soil Science, 2022, 11, 43-60.	0.2	12
152	Sorption of Cu by chernozems in southern Russia. Journal of Geochemical Exploration, 2017, 174, 107-112.	1.5	11
153	Content and distribution of heavy metals in herbaceous plants under the effect of industrial aerosol emissions. Journal of Geochemical Exploration, 2017, 174, 113-120.	1.5	11
154	Studying the transformation of Cu 2+ ions in soils and mineral phases by the XRD, XANES, and sequential fractionation methods. Journal of Geochemical Exploration, 2018, 184, 365-371.	1.5	11
155	Chemical contamination in upper horizon of Haplic Chernozem as a transformation factor of its physicochemical properties. Journal of Soils and Sediments, 2018, 18, 2418-2430.	1.5	11
156	Impact of nanoparticles on soil resource. , 2021, , 65-85.		11
157	Arsenic Remediation through Sustainable Phytoremediation Approaches. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.8	11
158	Biochar-assisted Fenton-like oxidation of benzo[a]pyrene-contaminated soil. Environmental Geochemistry and Health, 2022, 44, 195-206.	1.8	11
159	Structural and Ultrastructural Changes in Nanoparticle Exposed Plants. , 2019, , 281-295.		11
160	Decrypting the synergistic action of the Fenton process and biochar addition for sustainable remediation of real technogenic soil from PAHs and heavy metals. Environmental Pollution, 2022, 303, 119096.	3.7	11
161	Voltammetry as a tool for rough and rapid characterization of dissolved organic matter in the drainage water of hydroameliorated agricultural areas in Croatia. Journal of Solid State Electrochemistry, 2016, 20, 3097-3105.	1.2	10
162	Specific Features of Content and Mobility of Heavy Metals in Soils of Floodplain of the Don River. Arid Ecosystems, 2016, 6, 70-79.	0.2	10

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163	Adsorption of copper by ordinary and southern chernozems from solutions of different salts. Journal of Geochemical Exploration, 2017, 176, 108-113.	1.5	10
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