

Tatiana V Bauer

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Potentially toxic elements in surface soils of the Lower Don floodplain and the Taganrog Bay coast: sources, spatial distribution and pollution assessment. <i>Environmental Geochemistry and Health</i> , 2023, 45, 101-119.	1.8	3
2	Application of XAFS and XRD methods for describing the copper and zinc adsorption characteristics in hydromorphic soils. <i>Environmental Geochemistry and Health</i> , 2022, 44, 335-347.	1.8	9
3	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. <i>Environmental Geochemistry and Health</i> , 2022, 44, 349-368.	1.8	16
4	Spatial distribution of heavy metals in soils of the flood plain of the Seversky Donets River (Russia) based on geostatistical methods. <i>Environmental Geochemistry and Health</i> , 2022, 44, 319-333.	1.8	16
5	Analysis and assessment of heavy metal contamination in the vicinity of Lake Atamanskoe (Rostov) Tj ETQq1 1 0.784314 rgBT /Overl 44, 511-526.	1.8	5
6	Sorption of benzo[a]pyrene by Chernozem and carbonaceous sorbents: comparison of kinetics and interaction mechanisms. <i>Environmental Geochemistry and Health</i> , 2022, 44, 133-148.	1.8	7
7	Methods to determine the affinity of heavy metals for the chemically extracted carrier phases in soils. <i>Environmental Geochemistry and Health</i> , 2022, 44, 1387-1398.	1.8	6
8	Soil organic matter and biological activity under long-term contamination with copper. <i>Environmental Geochemistry and Health</i> , 2022, 44, 387-398.	1.8	12
9	Biochar-assisted Fenton-like oxidation of benzo[a]pyrene-contaminated soil. <i>Environmental Geochemistry and Health</i> , 2022, 44, 195-206.	1.8	11
10	Visible-Light-Driven Reduced Graphite Oxide as a Metal-Free Catalyst for Degradation of Colored Wastewater. <i>Nanomaterials</i> , 2022, 12, 374.	1.9	2
11	The toxic effect of CuO of different dispersion degrees on the structure and ultrastructure of spring barley cells (<i>Hordeum sativum distichum</i>). <i>Environmental Geochemistry and Health</i> , 2021, 43, 1673-1687.	1.8	27
12	Effects of benzo[a]pyrene toxicity on morphology and ultrastructure of <i>Hordeum sativum</i> . <i>Environmental Geochemistry and Health</i> , 2021, 43, 1551-1562.	1.8	19
13	Speciation of Zn and Cu in Technosol and evaluation of a sequential extraction procedure using XAS, XRD and SEM-EDX analyses. <i>Environmental Geochemistry and Health</i> , 2021, 43, 2301-2315.	1.8	20
14	Environmental and human health risk assessment of potentially toxic elements in soils around the largest coal-fired power station in Southern Russia. <i>Environmental Geochemistry and Health</i> , 2021, 43, 2285-2300.	1.8	33
15	Nitrogen state of Haplic Chernozem of the European part of Southern Russia in the implementation of resource-saving technologies. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 2312-2318.	1.7	2
16	The influence of long-term Zn and Cu contamination in Spolic Technosols on water-soluble organic matter and soil biological activity. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111471.	2.9	19
17	Establishment of regional background for heavy metals in the soils of the Lower Don and the Taganrog Bay coast. <i>E3S Web of Conferences</i> , 2021, 265, 03004.	0.2	0
18	Transformation of copper oxide and copper oxide nanoparticles in the soil and their accumulation by <i>Hordeum sativum</i> . <i>Environmental Geochemistry and Health</i> , 2021, 43, 1655-1672.	1.8	19

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19	Exchangeable form of potentially toxic elements in floodplain soils along the river-marine systems of Southern Russia. <i>Eurasian Journal of Soil Science</i> , 2021, 10, 132-141.	0.2	4
20	The Effect of Granular Activated Carbon and Biochar on the Availability of Cu and Zn to <i>Hordeum sativum</i> Distichum in Contaminated Soil. <i>Plants</i> , 2021, 10, 841.	1.6	19
21	Sources of lanthanides in soils and estimation of their hazards. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2021, 21, geochem2021-024.	0.5	2
22	Accumulation, translocation, and toxicity of arsenic in barley grown in contaminated soil. <i>Plant and Soil</i> , 2021, 467, 91-106.	1.8	6
23	Sustainable Approach and Safe Use of Biochar and Its Possible Consequences. <i>Sustainability</i> , 2021, 13, 10362.	1.6	39
24	Reduced plant uptake of PAHs from soil amended with sunflower husk biochar. <i>Eurasian Journal of Soil Science</i> , 2021, 10, 269-277.	0.2	1
25	Realizing United Nations Sustainable Development Goals for Greener Remediation of Heavy Metals-Contaminated Soils by Biochar: Emerging Trends and Future Directions. <i>Sustainability</i> , 2021, 13, 13825.	1.6	15
26	Geochemical assessment and spatial analysis of heavy metals pollution around coal-fired power station. <i>Environmental Geochemistry and Health</i> , 2020, 42, 4087-4100.	1.8	33
27	Development of the Technology for Processing Plant Breeding By-Products to Obtain Biosorbent. <i>E3S Web of Conferences</i> , 2020, 169, 02011.	0.2	0
28	The effect of granular activated carbon on the physical properties of soils at copper contamination. <i>E3S Web of Conferences</i> , 2020, 175, 09003.	0.2	3
29	Assessment of health risks associated with soil contamination by heavy metal in an impact area of Novochoerkassk power plant. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 578, 012020.	0.2	0
30	Method for calculation the selectivity of reagents extracting heavy metals mobile compounds from soil. <i>Applied Geochemistry</i> , 2020, 116, 104570.	1.4	4
31	Methodological aspects in the studying of soil particle size distribution under contamination and after reclamation. <i>E3S Web of Conferences</i> , 2020, 169, 01025.	0.2	1
32	Assessment of extraction methods for studying the fractional composition of Cu and Zn in uncontaminated and contaminated soils. <i>Eurasian Journal of Soil Science</i> , 2020, 9, 231-241.	0.2	5
33	Mechanisms of copper immobilization in Fluvisol after the carbon sorbent applying. <i>Eurasian Journal of Soil Science</i> , 2020, 9, 356-361.	0.2	2
34	Possibilities of chemical fractionation and X-ray spectral analysis in estimating the speciation of Cu ²⁺ with soil solid-phase components. <i>Applied Geochemistry</i> , 2019, 102, 55-63.	1.4	15
35	Study of copper, lead, and zinc speciation in the Haplic Chernozem surrounding coal-fired power plant. <i>Applied Geochemistry</i> , 2019, 104, 102-108.	1.4	18
36	Molecular characterization of Zn in Technosols using X-ray absorption spectroscopy. <i>Applied Geochemistry</i> , 2019, 104, 168-175.	1.4	12

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37	Quantitative speciation of Zn in technosols using chemical fractionation and X-ray absorption spectroscopy. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019, 19, 101-109.	0.5	2
38	Stabilization dynamics of easily and poorly soluble Zn compounds in the soil. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019, 19, 184-192.	0.5	6
39	Phytoaccumulation of Benzo[a]pyrene by the Barley in Artificially Contaminated Soil. <i>Polycyclic Aromatic Compounds</i> , 2019, 39, 395-403.	1.4	13
40	Chemical partitioning of Zn in soil: application of two sequential extraction procedures. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019, 19, 93-100.	0.5	5
41	Method of determining loosely bound compounds of heavy metals in the soil. <i>MethodsX</i> , 2018, 5, 217-226.	0.7	48
42	Determining the speciation of Zn in soils around the sediment ponds of chemical plants by XRD and XAFS spectroscopy and sequential extraction. <i>Science of the Total Environment</i> , 2018, 634, 1165-1173.	3.9	27
43	Time effect on the stabilization of technogenic copper compounds in solid phases of Haplic Chernozem. <i>Science of the Total Environment</i> , 2018, 626, 1100-1107.	3.9	13
44	Comparing two methods of sequential fractionation in the study of copper compounds in Haplic chernozem under model experimental conditions. <i>Journal of Soils and Sediments</i> , 2018, 18, 2379-2386.	1.5	7
45	Chemical contamination in upper horizon of Haplic Chernozem as a transformation factor of its physicochemical properties. <i>Journal of Soils and Sediments</i> , 2018, 18, 2418-2430.	1.5	11
46	Features of accumulation, migration, and transformation of benzo[a]pyrene in soil-plant system in a model condition of soil contamination. <i>Journal of Soils and Sediments</i> , 2018, 18, 2361-2367.	1.5	9
47	Forms of Cu (II), Zn (II), and Pb (II) compounds in technogenically transformed soils adjacent to the Karabashmed copper smelter. <i>Journal of Soils and Sediments</i> , 2018, 18, 2217-2228.	1.5	26
48	Influence of PAH contamination on soil ecological status. <i>Journal of Soils and Sediments</i> , 2018, 18, 2368-2378.	1.5	31
49	Adsorption of copper by ordinary and southern chernozems from solutions of different salts. <i>Journal of Geochemical Exploration</i> , 2017, 176, 108-113.	1.5	10
50	Protective mechanism of the soil-plant system with respect to heavy metals. <i>Journal of Soils and Sediments</i> , 2017, 17, 1291-1300.	1.5	9
51	Sorption of Cu by chernozems in southern Russia. <i>Journal of Geochemical Exploration</i> , 2017, 174, 107-112.	1.5	11
52	Content and distribution of heavy metals in herbaceous plants under the effect of industrial aerosol emissions. <i>Journal of Geochemical Exploration</i> , 2017, 174, 113-120.	1.5	11
53	Heavy metals in the soil-plant system of the Don River estuarine region and the Taganrog Bay coast. <i>Journal of Soils and Sediments</i> , 2017, 17, 1474-1491.	1.5	30
54	Monitoring of benzo[a]pyrene content in soils under the effect of long-term technogenic pollution. <i>Journal of Geochemical Exploration</i> , 2017, 174, 100-106.	1.5	23

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55	Current State of Haplic Chernozems in Specially Protected Natural Areas of the Steppe Zone. OnLine Journal of Biological Sciences, 2017, 17, 363-371.	0.2	5
56	Combining selective sequential extractions, X-Ray Absorption Spectroscopy, and X-Ray Powder Diffraction for Cu (II) speciation in soil and mineral phases. Eurasian Journal of Soil Science, 2017, 6, 114-114.	0.2	1
57	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
58	Benzo[a]pyrene contamination in Rostov Region of Russian Federation: A 10-year retrospective of soil monitoring under the effect of long-term technogenic pollution. Eurasian Journal of Soil Science, 2016, 5, 155.	0.2	5
59	Specific Features of the Accumulation and Distribution of Heavy Metals in Soils of the Floodplain and Deltaic Landscapes of the Don River. American Journal of Applied Sciences, 2015, 12, 885-895.	0.1	2
60	TRANSFORMATION OF TECHNOGENIC Cu AND Zn COMPOUNDS IN CHERNOZEM. Environmental Engineering and Management Journal, 2015, 14, 481-486.	0.2	12
61	ACCUMULATION AND DISTRIBUTION OF HEAVY METALS IN PLANTS WITHIN THE TECHNOGENESIS ZONE. Environmental Engineering and Management Journal, 2014, 13, 1307-1315.	0.2	14