

Tatiana V Bauer

List of Publications by Year in descending order

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61
papers

749
citations

566801

15
h-index

642321

23
g-index

61
all docs

61
docs citations

61
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Method of determining loosely bound compounds of heavy metals in the soil. <i>MethodsX</i> , 2018, 5, 217-226.	0.7	48
2	Sustainable Approach and Safe Use of Biochar and Its Possible Consequences. <i>Sustainability</i> , 2021, 13, 10362.	1.6	39
3	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
4	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
5	Influence of PAH contamination on soil ecological status. <i>Journal of Soils and Sediments</i> , 2018, 18, 2368-2378.	1.5	31
6	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
7	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
8	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
9	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
10	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
11	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
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	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
14	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
15	The Effect of Granular Activated Carbon and Biochar on the Availability of Cu and Zn to <i>Hordeum sativum Distichum</i> in Contaminated Soil. <i>Plants</i> , 2021, 10, 841.	1.6	19
16	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
17	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
18	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

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19	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
20	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
21	ACCUMULATION AND DISTRIBUTION OF HEAVY METALS IN PLANTS WITHIN THE TECHNOGENESIS ZONE. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 1307-1315.	0.2	14
22	Plant contamination by heavy metals in the impact zone of Novocherkassk Power Station in the south of Russia. <i>Journal of Soils and Sediments</i> , 2016, 16, 1383-1391.	1.5	13
23	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
24	Phytoaccumulation of Benzo[a]pyrene by the Barley in Artificially Contaminated Soil. <i>Polycyclic Aromatic Compounds</i> , 2019, 39, 395-403.	1.4	13
25	Molecular characterization of Zn in Technosols using X-ray absorption spectroscopy. <i>Applied Geochemistry</i> , 2019, 104, 168-175.	1.4	12
26	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
27	TRANSFORMATION OF TECHNOGENIC Cu AND Zn COMPOUNDS IN CHERNOZEM. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 481-486.	0.2	12
28	Sorption of Cu by chernozems in southern Russia. <i>Journal of Geochemical Exploration</i> , 2017, 174, 107-112.	1.5	11
29	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
30	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
31	Biochar-assisted Fenton-like oxidation of benzo[a]pyrene-contaminated soil. <i>Environmental Geochemistry and Health</i> , 2022, 44, 195-206.	1.8	11
32	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
33	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
34	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
35	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
36	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

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37	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
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	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
40	Accumulation, translocation, and toxicity of arsenic in barley grown in contaminated soil. <i>Plant and Soil</i> , 2021, 467, 91-106.	1.8	6
41	Current State of Haplic Chernozems in Specially Protected Natural Areas of the Steppe Zone. <i>OnLine Journal of Biological Sciences</i> , 2017, 17, 363-371.	0.2	5
42	Analysis and assessment of heavy metal contamination in the vicinity of Lake Atamanskoe (Rostov) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 44, 511-526.	1.8	5
43	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
44	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. <i>Eurasian Journal of Soil Science</i> , 2016, 5, 155.	0.2	5
45	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
46	Method for calculation the selectivity of reagents extracting heavy metals mobile compounds from soil. <i>Applied Geochemistry</i> , 2020, 116, 104570.	1.4	4
47	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
48	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
49	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
50	Specific Features of the Accumulation and Distribution of Heavy Metals in Soils of the Floodplain and Deltaic Landscapes of the Don River. <i>American Journal of Applied Sciences</i> , 2015, 12, 885-895.	0.1	2
51	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
52	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
53	Sources of lanthanides in soils and estimation of their hazards. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2021, 21, geochem2021-024.	0.5	2
54	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

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55	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
56	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
57	Metodological 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
58	Combining selective sequential extractions, X-Ray Absorption Spectroscopy, and X-Ray Powder Diffraction for Cu (II) speciation in soil and mineral phases. <i>Eurasian Journal of Soil Science</i> , 2017, 6, 114-114.	0.2	1
59	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
60	Assessment of health risks associated with soil contamination by heavy metal in an impact area of Novocherkassk power plant. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 578, 012020.	0.2	0
61	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