

# Monika Mierzwa-Hersztek

## List of Publications by Year in descending order

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63  
papers

1,230  
citations

394421

19  
h-index

395702

33  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of poultry litter biochar on soil enzymatic activity, ecotoxicity and plant growth. <i>Applied Soil Ecology</i> , 2016, 105, 144-150.	4.3	83
2	Contemporary applications of natural and synthetic zeolites from fly ash in agriculture and environmental protection. <i>Journal of Cleaner Production</i> , 2021, 311, 127461.	9.3	80
3	Effects of co-composted maize, sewage sludge, and biochar mixtures on hydrological and physical qualities of sandy soil. <i>Geoderma</i> , 2018, 315, 27-35.	5.1	78
4	Assessment of energy parameters of biomass and biochars, leachability of heavy metals and phytotoxicity of their ashes. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 786-800.	3.0	78
5	Mobility of heavy metals in sandy soil after application of composts produced from maize straw, sewage sludge and biochar. <i>Journal of Environmental Management</i> , 2018, 210, 87-95.	7.8	73
6	The influence of the quantity and quality of sediment organic matter on the potential mobility and toxicity of trace elements in bottom sediment. <i>Environmental Geochemistry and Health</i> , 2019, 41, 2893-2910.	3.4	69
7	Degradation of Polyethylene and Biocomponent-Derived Polymer Materials: An Overview. <i>Journal of Polymers and the Environment</i> , 2019, 27, 600-611.	5.0	64
8	Sewage sludge biochars management – Ecotoxicity, mobility of heavy metals, and soil microbial biomass. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1197-1207.	4.3	53
9	Fertilization effects of compost produced from maize, sewage sludge and biochar on soil water retention and chemical properties. <i>Soil and Tillage Research</i> , 2020, 197, 104493.	5.6	53
10	The use of zeolites as an addition to fertilisers – A review. <i>Catena</i> , 2022, 213, 106125.	5.0	46
11	Agronomic Biofortification with Se, Zn, and Fe: An Effective Strategy to Enhance Crop Nutritional Quality and Stress Defense – A Review. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 1129-1159.	3.4	44
12	Effect of low-temperature biochar derived from pig manure and poultry litter on mobile and organic matter-bound forms of Cu, Cd, Pb and Zn in sandy soil. <i>Soil Use and Management</i> , 2016, 32, 357-367.	4.9	36
13	Influence of Poultry Litter and Poultry Litter Biochar on Soil Microbial Respiration and Nitrifying Bacteria Activity. <i>Waste and Biomass Valorization</i> , 2018, 9, 379-389.	3.4	34
14	Direct and residual impacts of zeolite on the remediation of harmful elements in multiple contaminated soils using cabbage in rotation with corn. <i>Chemosphere</i> , 2020, 250, 126317.	8.2	31
15	Effect of Coapplication of Biochar and Nutrients on Microbiocenotic Composition, Dehydrogenase Activity Index and Chemical Properties of Sandy Soil. <i>Waste and Biomass Valorization</i> , 2020, 11, 3911-3923.	3.4	28
16	Effect of wheat and Miscanthus straw biochars on soil enzymatic activity, ecotoxicity, and plant yield. <i>International Agrophysics</i> , 2017, 31, 367-375.	1.7	27
17	Factors influencing chemical quality of composted poultry waste. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 1678-1686.	3.8	25
18	Effect of the Addition of Biochar and Coffee Grounds on the Biological Properties and Ecotoxicity of Composts. <i>Waste and Biomass Valorization</i> , 2018, 9, 1389-1398.	3.4	25

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19	Assessment of soil quality after biochar application based on enzymatic activity and microbial composition. <i>International Agrophysics</i> , 2019, 33, 331-336.	1.7	23
20	Biological effects of biochar and zeolite used for remediation of soil contaminated with toxic heavy metals. <i>Scientific Reports</i> , 2021, 11, 6998.	3.3	21
21	Residual effects of tobacco biochar along with different fixing agents on stabilization of trace elements in multi-metal contaminated soils. <i>Journal of Environmental Sciences</i> , 2020, 87, 299-309.	6.1	19
22	Biological activity of composts obtained from hop waste generated during the brewing. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1271-1279.	4.6	17
23	The Effect of Low-Temperature Conversion of Plant Materials on the Chemical Composition and Ecotoxicity of Biochars. <i>Waste and Biomass Valorization</i> , 2017, 8, 599-609.	3.4	16
24	An assessment of the concentrations of PCDDs/Fs in contaminated bottom sediments and their sources and ecological risk. <i>Journal of Soils and Sediments</i> , 2020, 20, 2588-2597.	3.0	16
25	Distribution of polycyclic aromatic hydrocarbons (PAHs) in the bottom sediments of a dam reservoir, their interaction with organic matter and risk to benthic fauna. <i>Journal of Soils and Sediments</i> , 2021, 21, 2418-2431.	3.0	14
26	Sewage Sludge Biochar Effects on Phosphorus Mobility in Soil and Accumulation in Plant. <i>Ecological Chemistry and Engineering S</i> , 2019, 26, 367-381.	1.5	11
27	Influence of Biochar Application on Reduced Acidification of Sandy Soil, Increased Cation Exchange Capacity, and the Content of Available Forms of K, Mg, and P. <i>Polish Journal of Environmental Studies</i> , 2018, 28, 103-111.	1.2	11
28	Fungistatic activity of composts with the addition of polymers obtained from thermoplastic corn starch and polyethylene - An innovative cleaner production alternative. <i>Science of the Total Environment</i> , 2018, 635, 1063-1075.	8.0	9
29	Effect of coapplication of poultry litter biochar and mineral fertilisers on soil quality and crop yield. <i>Zemdirbyste</i> , 2018, 105, 203-210.	0.8	9
30	Effect of mineral and organic additions on soil microbial composition. <i>International Agrophysics</i> , 2022, 36, 131-138.	1.7	9
31	The Influence of Biochar Enriched with Magnesium and Sulfur on the Amount of <i>Perennial Ryegrass</i> Biomass and Selected Chemical Properties and Biological of Sandy Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2018, 49, 1257-1265.	1.4	8
32	Fertilization with Magnesium- and Sulfur-Supplemented Digestate Increases the Yield and Quality of Kohlrabi. <i>Sustainability</i> , 2020, 12, 5733.	3.2	8
33	Effect of Soil-Applied L-tryptophan on the Amount of Biomass and Nitrogen and Sulfur Utilization by Maize. <i>Agronomy</i> , 2021, 11, 2582.	3.0	8
34	In-situ stabilization of potentially toxic elements in two industrial polluted soils ameliorated with rock phosphate-modified biochars. <i>Environmental Pollution</i> , 2022, 309, 119733.	7.5	8
35	Content of PAHs, activities of $^{13}\text{C}$ -radionuclides and ecotoxicological assessment in biochars. <i>Polish Journal of Chemical Technology</i> , 2016, 18, 27-35.	0.5	7
36	Mobility of heavy metals in sandy soil after application of composts produced from maize straw, sewage sludge and biochar - Discussion of Moussavi et al. - JEMA-D-18-00677. <i>Journal of Environmental Management</i> , 2018, 222, 1-2.	7.8	7

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37	Optimization of turfgrass fertigation rate and frequency. <i>Agricultural Water Management</i> , 2020, 234, 106107.	5.6	7
38	Changes of PAHs and C humic fractions in composts with sewage sludge and biochar amendment. , 0, 97, 234-243.		7
39	Clays, Limestone and Biochar Affect the Bioavailability and Geochemical Fractions of Cadmium and Zinc from Zn-Smelter Polluted Soils. <i>Sustainability</i> , 2020, 12, 8606.	3.2	6
40	The Application Potential of Hop Sediments from Beer Production for Composting. <i>Sustainability</i> , 2021, 13, 6409.	3.2	6
41	Biochar changes in soil based on quantitative and qualitative humus compounds parameters. <i>Soil Science Annual</i> , 2018, 69, 234-242.	0.8	6
42	Effects of Straw and Biochar Amendments on Grassland Productivity and Root Morphology. <i>Agronomy</i> , 2020, 10, 1794.	3.0	5
43	Effect of thermal conversion of municipal sewage sludge on the content of Cu, Cd, Pb and Zn and phytotoxicity of biochars. <i>Journal of Elementology</i> , 2017, , .	0.2	5
44	Effect of thermal conversion of pig manure and poultry litter on the content and mobility of Mn and Fe in biochars and in soil after their application. <i>Chilean Journal of Agricultural Research</i> , 2016, 76, 349-355.	1.1	4
45	Pyrolysis Improves the Effect of Straw Amendment on the Productivity of Perennial Ryegrass ( <i>Lolium</i> ) Tj ETQq1 1 0,784314 rgBT /Over	3.0	4
46	Compost Produced with Addition of Sewage Sludge as a Source of Fe and Mn for Plants. <i>Ecological Chemistry and Engineering S</i> , 2021, 28, 259-275.	1.5	4
47	Changes in quantity and quality of organic matter in soil after application of poultry litter and poultry litter biocharâ€™5-year field experiment. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2925-2934.	4.6	3
48	Soil micromorphological and physical properties after application of composts with polyethylene and biocomponent-derived polymers added during composting. <i>Pedosphere</i> , 2021, 31, 560-571.	4.0	3
49	FT-IR analysis and the content of phenolic compounds in exogenous organic matter produced from plant biomass. <i>Journal of Elementology</i> , 2019, , .	0.2	3
50	Phytostabilisation on post-flotation sediment waste: mobility of heavy metals and stimulation of biochemical processes by mineral-organic mixtures. <i>Journal of Soils and Sediments</i> , 2020, 20, 3502-3513.	3.0	2
51	Changes in the soil content of organic carbon nitrogen and sulphurÂ in a long-term fertilisation experiment in Czarny Potok (Poland). <i>Journal of Elementology</i> , 2021, , .	0.2	2
52	Cavitated Charcoalâ€™An Innovative Method for Affecting the Biochemical Properties of Soil. <i>Materials</i> , 2021, 14, 2466.	2.9	2
53	Zastosowanie biowÃ™gla i zeolitu jako adsorbentÃ³w zanieczyszczeÅ„, mineralnych. <i>Przemysl Chemiczny</i> , 2019, 1, 135-138.	0.0	2
54	Water Stress Affects the Some Morpho-Physiological Traits of Twenty Wheat ( <i>Triticum aestivum</i> L.) Genotypes under Field Condition. <i>Sustainability</i> , 2021, 13, 13736.	3.2	2

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55	Influence of Plant Biomass Added to Sewage Sludge on the Product Energy Potential. Springer Proceedings in Energy, 2018, , 683-689.	0.3	1
56	FACTORS INFLUENCING COMPOSTING POULTRY WASTE. Journal of Ecological Engineering, 0, 16, 93-100.	1.1	1
57	Ways of increasing the magnesium content in sward from a long-term fertilizer experiment. Journal of Elementology, 2015, , .	0.2	1
58	The effectiveness of biochar in mitigating changes in the chemical properties of sandy soil treated with various chemical. Journal of Elementology, 2020, , .	0.2	1
59	The content and composition of organic matter in bottom sediments of the Rybnik reservoir – preliminary studies. Geology Geophysics & Environment, 2018, 44, 309.	1.0	1
60	VARIABILITY OF NUTRIENTS IN THE LEACHATES FROM EVERBEARING STRAWBERRY CULTIVATED IN SOILLESS CONDITIONS ON GUTTERS. Acta Scientiarum Polonorum Formatio Circumiectus, 2019, 18, 13-23.	0.6	1
61	Mineral composition of fruits and leaves of San Andreas® everbearing strawberry in soilless cultivation. Journal of Elementology, 2020, , .	0.2	1
62	Impact of thermal treatment of mixtures of sewage sludge and plant material on selected chemical properties and <i>Vibrio fischeri</i> response. Ecological Chemistry and Engineering S, 2017, 24, 443-455.	1.5	0
63	Recovery of Leachate from Everbearing Strawberry Cultivation as an Element of Retardation. Journal of Ecological Engineering, 2020, 21, 197-203.	1.1	0