Anna GaÅ‚Äzka

List of Publications by Year
in descending order

83 papers	1,307 citations	393982 19 h-index	433756 31 g-index
84 all docs	84 docs citations	84 times ranked	1327 citing authors

#	Article	IF	Citations
1	Genetic and Functional Diversity of Bacterial Microbiome in Soils With Long Term Impacts of Petroleum Hydrocarbons. Frontiers in Microbiology, 2018, 9, 1923.	1.5	73
2	Culture-independent analysis of an endophytic core microbiome in two species of wheat: Triticum aestivum L. (cv. â€˜Hondiaâ€™) and the first report of microbiota in Triticum spelta L. (cv. â€˜Rokoszâ€™). Systematic and Applied Microbiology, 2020, 43, 126025.	1.2	65
3	Impact of abiotic factors on development of the community of arbuscular mycorrhizal fungi in the soil: a Review. International Agrophysics, 2018, 32, 133-140.	0.7	60
4	Endophytic Bacteria Potentially Promote Plant Growth by Synthesizing Different Metabolites and their Phenotypic/Physiological Profiles in the Biolog GEN III MicroPlateTM Test. International Journal of Molecular Sciences, 2019, 20, 5283.	1.8	58
5	Impact of Water Stress on Microbial Community and Activity in Sandy and Loamy Soils. Agronomy, 2020, 10, 1429.	1.3	55
6	Microbial community diversity and the interaction of soil under maize growth in different cultivation techniques. Plant, Soil and Environment, 2017, 63, 264-270.	1.0	47
7	Effect of different agricultural management practices on soil biological parameters including glomalin fraction. Plant, Soil and Environment, 2017, 63, 300-306.	1.0	47
8	Fungal Biodiversity of the Most Common Types of Polish Soil in a Long-Term Microplot Experiment. Frontiers in Microbiology, 2019, 10, 6.	1.5	46
9	Microplot long-term experiment reveals strong soil type influence on bacteria composition and its functional diversity. Applied Soil Ecology, 2018, 124, 117-123.	2.1	42
10	Changes in Enzymatic Activities and Microbial Communities in Soil under Long-Term Maize Monoculture and Crop Rotation. Polish Journal of Environmental Studies, 2017, 26, 39-46.	0.6	42
11	New Insight into the Composition of Wheat Seed Microbiota. International Journal of Molecular Sciences, 2020, 21, 4634.	1.8	39
12	Prevalence of unclassified bacteria in the soil bacterial community from floodplain meadows (fluvisols) under simulated flood conditions revealed by a metataxonomic approachss. Catena, 2020, 188, 104448.	2.2	35
13	Fungal Genetics and Functional Diversity of Microbial Communities in the Soil under Long-Term Monoculture of Maize Using Different Cultivation Techniques. Frontiers in Microbiology, 2018, 9, 76.	1.5	33
14	Impact of trees and forests on the Devonian landscape and weathering processes with implications to the global Earth's system properties - A critical review. Earth-Science Reviews, 2020, 205, 103200.	4.0	29
15	Phytoremediation of Polycyclic Aromatic Hydrocarbons in Soils Artificially Polluted Using Plant-Associated-Endophytic Bacteria and Dactylis glomerata as the Bioremediation Plant. Polish Journal of Microbiology, 2015, 64, 241-252.	0.6	29
16	Effect of Coapplication of Biochar and Nutrients on Microbiocenotic Composition, Dehydrogenase Activity Index and Chemical Properties of Sandy Soil. Waste and Biomass Valorization, 2020, 11, 3911-3923.	1.8	28
17	Fungal Community, Metabolic Diversity, and Glomalin-Related Soil Proteins (GRSP) Content in Soil Contaminated With Crude Oil After Long-Term Natural Bioremediation. Frontiers in Microbiology, 2020, 11, 572314.	1.5	28
18	Biochar addition reinforces microbial interspecies cooperation in methanation of sugar beet waste (pulp). Science of the Total Environment, 2020, 730, 138921.	3.9	26

#	Article	IF	Citations
19	Community-Level Physiological Profiles of Microorganisms from Different Types of Soil That are Characteristic to Polandâ€"a Long-Term Microplot Experiment. Sustainability, 2019, 11, 56.	1.6	22
20	Effects of maize and winter wheat grown under different cultivation techniques on biological activity of soil. Plant, Soil and Environment, 2017, 63, 449-454.	1.0	21
21	Influence of pipe material on biofilm microbial communities found in drinking water supply system. Environmental Research, 2021, 196, 110433.	3.7	21
22	Analysis of Soil Properties, Bacterial Community Composition, and Metabolic Diversity in Fluvisols of a Floodplain Area. Sustainability, 2019, 11, 3929.	1.6	20
23	Evaluation of Changes in Glomalin-Related Soil Proteins (GRSP) Content, Microbial Diversity and Physical Properties Depending on the Type of Soil as the Important Biotic Determinants of Soil Quality. Agronomy, 2020, 10, 1279.	1.3	20
24	Biodiversity in the Rhizosphere of Selected Winter Wheat (Triticum aestivum L.) Cultivarsâ€"Genetic and Catabolic Fingerprinting. Agronomy, 2020, 10, 953.	1.3	19
25	INTERACTIONS OF ARBUSCULAR MYCORRHIZAL FUNGI WITH PLANTS AND SOIL MICROFLORA. Acta Scientiarum Polonorum, Hortorum Cultus, 2017, 16, 89-95.	0.3	19
26	Catabolic Fingerprinting and Diversity of Bacteria in Mollic Gleysol Contaminated with Petroleum Substances. Applied Sciences (Switzerland), 2018, 8, 1970.	1.3	18
27	Biological activity and functional diversity in soil in different cultivation systems. International Journal of Environmental Science and Technology, 2020, 17, 4189-4204.	1.8	17
28	Activity and Diversity of Microorganisms in Root Zone of Plant Species Spontaneously Inhabiting Smelter Waste Piles. Molecules, 2020, 25, 5638.	1.7	16
29	Biochar dose determines methane uptake and methanotroph abundance in Haplic Luvisol. Science of the Total Environment, 2022, 806, 151259.	3.9	16
30	Role of Festuca rubra and Festuca arundinacea in determinig the functional and genetic diversity of microorganisms and of the enzymatic activity in the soil polluted with diesel oil. Environmental Science and Pollution Research, 2019, 26, 27738-27751.	2.7	14
31	Soil Microbial Community Profiling and Bacterial Metabolic Activity of Technosols as an Effect of Soil Properties following Land Reclamation: A Case Study from the Abandoned Iron Sulphide and Uranium Mine in Rudki (South-Central Poland). Agronomy, 2020, 10, 1795.	1.3	13
32	Metagenomic analysis of bacterial and fungal community composition associated with Paulownia elongata Ã— Paulownia fortunei. BioResources, 2019, 14, 8511-8529.	0.5	13
33	The identification and genetic diversity of endophytic bacteria isolated from selected crops. Journal of Agricultural Science, 2018, 156, 547-556.	0.6	12
34	Organic nitrogen modulates not only cadmium toxicity but also microbial activity in plants. Journal of Hazardous Materials, 2021, 402, 123887.	6.5	12
35	Changes of Microbial Diversity in Rhizosphere Soils of New Quality Varieties of Winter Wheat Cultivation in Organic Farming. Sustainability, 2019, 11, 4057.	1.6	11
36	Does the Use of an Intercropping Mixture Really Improve the Biology of Monocultural Soils?â€"A Search for Bacterial Indicators of Sensitivity and Resistance to Long-Term Maize Monoculture. Agronomy, 2022, 12, 613.	1.3	11

#	Article	IF	Citations
37	Assessment of the glomalins content in the soil under winter wheat in different crop production systems. Plant, Soil and Environment, 2018, 64, 32-37.	1.0	10
38	Fungal Indicators of Sensitivity and Resistance to Long-Term Maize Monoculture: A Culture-Independent Approach. Frontiers in Microbiology, 2021, 12, 799378.	1.5	10
39	Functional Microbial Diversity in Context to Agriculture. , 2019, , 347-358.		9
40	Silica/Lignin Carrier as a Factor Increasing the Process Performance and Genetic Diversity of Microbial Communities in Laboratory-Scale Anaerobic Digesters. Energies, 2021, 14, 4429.	1.6	9
41	The Rhizosphere Microbiome And Its Beneficial Effects On Plants â€“ Current Knowledge And Perspectives. Postepy Mikrobiologii, 2019, 58, 59-69.	0.1	9
42	EDAPHIC FACTORS AND THEIR INFLUENCE ON THE MICROBIOLOGICAL BIODIVERSITY OF THE SOIL ENVIRONMENT. Postepy Mikrobiologii, 2019, 58, 375-384.	0.1	9
43	Strip-till as a means of decreasing spatial variability of winter barley within a field scale. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2019, 69, 516-527.	0.3	8
44	Stimulation of methanogenesis in bituminous coal from the upper Silesian coal basin. International Journal of Coal Geology, 2020, 231, 103609.	1.9	8
45	Effect of Mycorrhizal Inoculation and Irrigation on Biological Properties of Sweet Pepper Rhizosphere in Organic Field Cultivation. Agronomy, 2020, 10, 1693.	1.3	8
46	The Response of Red Clover (Trifolium pratense L.) to Separate and Mixed Inoculations with Rhizobium leguminosarum and Azospirillum brasilense in Presence of Polycyclic Aromatic Hydrocarbons. International Journal of Environmental Research and Public Health, 2020, 17, 5751.	1.2	8
47	ENZYMATIC HYDROLYSIS OF FAST-GROWING POPLAR WOOD AFTER PRETREATMENT BY STEAM EXPLOSION. Cellulose Chemistry and Technology, 2021, 55, 637-647.	0.5	8
48	Can the Biological Activity of Abandoned Soils Be Changed by the Growth of Paulownia elongata Ã— Paulownia fortunei?â€”Preliminary Study on a Young Tree Plantation. Agriculture (Switzerland), 2022, 12, 128.	1.4	8
49	Changes in the Substrate Source Reveal Novel Interactions in the Sediment-Derived Methanogenic Microbial Community. International Journal of Molecular Sciences, 2019, 20, 4415.	1.8	7
50	Biocontrol Potential and Catabolic Profile of Endophytic Diaporthe eres Strain 1420S from Prunus domestica L. in Polandâ€”A Preliminary Study. Agronomy, 2022, 12, 165.	1.3	7
51	Biodiversity and Metabolic Potential of Bacteria in Bulk Soil from the Peri-Root Zone of Black Alder (Alnus glutinosa), Silver Birch (Betula pendula) and Scots Pine (Pinus sylvestris). International Journal of Molecular Sciences, 2022, 23, 2633.	1.8	7
52	The Molecularâ€Based Methods Used for Studying Bacterial Diversity in Soils Contaminated with PAHs (The Review). , 0, , .		6
53	Soil respiration depending on different agricultural practices before maize sowing. Plant, Soil and Environment, 2017, 63, 435-441.	1.0	6
54	Water-induced molecular changes of hard coals and lignites. International Journal of Coal Geology, 2020, 224, 103481.	1.9	6

#	Article	IF	Citations
55	A Comprehensive Analysis Using Colorimetry, Liquid Chromatography-Tandem Mass Spectrometry and Bioassays for the Assessment of Indole Related Compounds Produced by Endophytes of Selected Wheat Cultivars. Molecules, 2021, 26, 1394.	1.7	6
56	Changes in Soil Enzymatic Activity Caused by Hydric Stress. Polish Journal of Environmental Studies, 2020, 29, 2653-2660.	0.6	6
57	Microorganisms As Indoor And Outdoor Air Biological Pollution. Postepy Mikrobiologii, 2020, 59, 115-127.	0.1	6
58	INFLUENCE OF SOIL MICROBIAL ACTIVITY AND PHYSICAL PROPERTIES ON SOIL RESPIRATION UNDER MAIZE (ZEA MAYS L.). Applied Ecology and Environmental Research, 2019, 17, .	0.2	6
59	Effect of Thiosemicarbazone Derivatives and Fusarium culmorum (Wm.G. Sm.) Sacc. Infection of Winter Wheat Seedlings on Their Health Status and Soil Biological Activity. Agronomy, 2022, 12, 116.	1.3	6
60	Microbial diversity of Paulownia spp. leaves â€“ A new source of green manure. BioResources, 2018, 13, 4807-4819.	0.5	6
61	Fungal biodiversity and metabolic potential of selected fluvisols from the Vistula River valley in Lubelskie, Poland. Applied Soil Ecology, 2021, 160, 103866.	2.1	5
62	Response of Pulses to Seed or Soil Application of Rhizobial Inoculants. Ecological Chemistry and Engineering S, 2018, 25, 323-329.	0.3	5
63	Intensyfikacja rolnictwa a Å›rodowisko naturalne. Zeszyty Problemowe PostÄ™pÃ³w Nauk Rolniczych, 2018, , 3-13.	0.1	5
64	WpÅ‚yw rolnictwa ekologicznego na Å›rodowisko w koncepcji rozwoju zrÃ³wnowaÅ¼onego. , 2017, , 147-165.	0.1	5
65	Evaluation of the content of phenolic acids and their antioxidant activity in winter cereal seeds. Journal of Elementology, 2017, , .	0.0	4
66	Microbial activity and community level physiological profiles (CLPP) of soil under the cultivation of spring rape with the Roundup 360 SL herbicide. Journal of Environmental Health Science & Engineering, 2021, 19, 2013-2026.	1.4	4
67	The Use of Interactions Between Microorganisms in Strawberry Cultivation (Fragaria x ananassa) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	4
68	Functional and Seasonal Changes in the Structure of Microbiome Inhabiting Bottom Sediments of a Pond Intended for Ecological King Carp Farming. Biology, 2022, 11, 913.	1.3	4
69	Fungal genetic biodiversity and metabolic activity as an indicator of potential biological weathering and soil formation â€“ Case study of towards a better understanding of Earth system dynamics. Ecological Indicators, 2022, 141, 109136.	2.6	4
70	Microbial Involvement in Carbon Transformation via CH4 and CO2 in Saline Sedimentary Pool. Biology, 2021, 10, 792.	1.3	3
71	GENETIC DIFFERENTIATION METHODS OF MICROORGANISMS IN THE SOIL - PLANT SYSTEM. Postepy Mikrobiologii, 2019, 56, 341-352.	0.1	3
72	Genetic and Phenotypic Diversity of Rhizobia Isolated from Trifolium rubens Root Nodules. Agronomy, 2020, 10, 1286.	1.3	1

#	Article	IF	Citations
73	SYMBIOTIC EFFECTIVENESS OF RHIZOBIUM LEGUMINOSARUM BV. VICIAE WITH PEA PLANTS AS INFLUENCED BY AZOTOBACTER CHROOCOCCUM. Journal of Ecological Engineering, 2015, 16, 185-190.	0.5	1
74	Effect of organic farming on soil microbiological parameters. Polish Journal of Soil Science, 2019, 52, 259.	0.3	1
75	Can Model Experiments Give Insight into the Response of the Soil Environment to Flooding? A Comparison of Microcosm and Natural Event. Biology, 2022, 11, 386.	1.3	1
76	The effect of the same microbial products on basic biological activities of soil under cereal crops. Plant, Soil and Environment, 2017, 63, 111-116.	1.0	0
77	Phenotype Switching in Metal-Tolerant Bacteria Isolated from a Hyperaccumulator Plant. Biology, 2021, 10, 879.	1.3	0
78	Identification and Characterization of Metabolic Potential of Different Strains from Genus Rhizobium. Proceedings (mdpi), 2021, 66, .	0.2	0
79	DEADLY MICROBES - MICROBES USED AS A BIOLOGICAL WEAPON. Postepy Mikrobiologii, 2019, 56, 395-404.	0.1	0
80	PAULOWNIA â€“ SZYBKO ROSNÄ„CE, WIELOFUNKCYJNE DRZEWO BIOENERGETYCZNE. Cosmos: Problems of Biological Sciences, 2019, 67, 781-789.	0.0	0
81	Identification and characterization of metabolic potential of different strains from genus Rhizobium. , 0, , .		0
82	Bacterial structure and community-level physiological profiles in water from Vistula River, Lubelskie, Poland. , 0, , .		0
83	Intensyfikacja rolnictwa a Å›rodowisko naturalne. Zeszyty Problemowe PostÄ™pÃ³w Nauk Rolniczych, 2018, , 3-13.	0.1	0