

Zofia Piotrowska-Seget

List of Publications by Year in descending order

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90
papers

6,092
citations

81900

39
h-index

71685

76
g-index

90
all docs

90
docs citations

90
times ranked

7355
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental Applications of Biosurfactants: Recent Advances. International Journal of Molecular Sciences, 2011, 12, 633-654.	4.1	764
2	Antibiotics in the Soil Environment – Degradation and Their Impact on Microbial Activity and Diversity. Frontiers in Microbiology, 2019, 10, 338.	3.5	511
3	Bioaugmentation as a strategy for cleaning up of soils contaminated with aromatic compounds. Microbiological Research, 2010, 165, 363-375.	5.3	419
4	Bioaugmentation as a strategy for the remediation of pesticide-polluted soil: A review. Chemosphere, 2017, 172, 52-71.	8.2	328
5	Biodegradation of the organophosphorus insecticide diazinon by <i>Serratia</i> sp. and <i>Pseudomonas</i> sp. and their use in bioremediation of contaminated soil. Chemosphere, 2009, 76, 494-501.	8.2	221
6	The urgent need for risk assessment on the antibiotic resistance spread via sewage sludge land application. Environment International, 2016, 87, 49-55.	10.0	219
7	Molecular basis of active copper resistance mechanisms in Gram-negative bacteria. Cell Biology and Toxicology, 2013, 29, 397-405.	5.3	196
8	Metal-tolerant bacteria occurring in heavily polluted soil and mine spoil. Applied Soil Ecology, 2005, 28, 237-246.	4.3	180
9	Pyrethroid-Degrading Microorganisms and Their Potential for the Bioremediation of Contaminated Soils: A Review. Frontiers in Microbiology, 2016, 7, 1463.	3.5	165
10	Production of polyhydroxyalkanoates from waste frying oil by <i>Cupriavidus necator</i> . AMB Express, 2011, 1, 11.	3.0	159
11	Lead resistance in micro-organisms. Microbiology (United Kingdom), 2014, 160, 12-25.	1.8	154
12	Bisphenols: Application, occurrence, safety, and biodegradation mediated by bacterial communities in wastewater treatment plants and rivers. Chemosphere, 2018, 201, 214-223.	8.2	131
13	Biodegradation and bioremediation potential of diazinon-degrading <i>Serratia marcescens</i> to remove other organophosphorus pesticides from soils. Journal of Environmental Management, 2013, 117, 7-16.	7.8	124
14	Functional Characterization of Gne (UDP- N -Acetylglucosamine- 4-Epimerase), Wzz (Chain Length) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Bacteriology, 2002, 184, 4277-4287.	2.2	96
15	Microbiological characteristics of a sandy loam soil exposed to tebuconazole and λ -cyhalothrin under laboratory conditions. Ecotoxicology, 2006, 15, 639-646.	2.4	93
16	Characterization of hydrocarbon-degrading and biosurfactant-producing <i>Pseudomonas</i> sp. P-1 strain as a potential tool for bioremediation of petroleum-contaminated soil. Environmental Science and Pollution Research, 2014, 21, 9385-9395.	5.3	88
17	Enhancement of deltamethrin degradation by soil bioaugmentation with two different strains of <i>Serratia marcescens</i> . International Journal of Environmental Science and Technology, 2014, 11, 1305-1316.	3.5	87
18	Imidacloprid induces changes in the structure, genetic diversity and catabolic activity of soil microbial communities. Journal of Environmental Management, 2013, 131, 55-65.	7.8	86

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19	Short-term effects of the herbicide napropamide on the activity and structure of the soil microbial community assessed by the multi-approach analysis. <i>Applied Soil Ecology</i> , 2013, 66, 8-18.	4.3	83
20	Prospects for arbuscular mycorrhizal fungi (AMF) to assist in phytoremediation of soil hydrocarbon contaminants. <i>Chemosphere</i> , 2016, 162, 105-116.	8.2	77
21	Characterization of <i>Enterobacter intermedius</i> MH8b and its use for the enhancement of heavy metals uptake by <i>Sinapis alba</i> L.. <i>Applied Soil Ecology</i> , 2013, 63, 1-7.	4.3	70
22	Metabolic potential and community structure of endophytic and rhizosphere bacteria associated with the roots of the halophyte <i>Aster tripolium</i> L.. <i>Microbiological Research</i> , 2016, 182, 68-79.	5.3	69
23	Hydrocarbon degradation potential and plant growth-promoting activity of culturable endophytic bacteria of <i>Lotus corniculatus</i> and <i>Oenothera biennis</i> from a long-term polluted site. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19640-19652.	5.3	67
24	Responses of indigenous microorganisms to a fungicidal mixture of mancozeb and dimethomorph added to sandy soils. <i>International Biodeterioration and Biodegradation</i> , 2010, 64, 316-323.	3.9	66
25	Biochemical and microbial soil functioning after application of the insecticide imidacloprid. <i>Journal of Environmental Sciences</i> , 2015, 27, 147-158.	6.1	63
26	Endophytic and rhizosphere bacteria associated with the roots of the halophyte <i>Salicornia europaea</i> L. – community structure and metabolic potential. <i>Microbiological Research</i> , 2016, 192, 37-51.	5.3	63
27	Plant Species and Heavy Metals Affect Biodiversity of Microbial Communities Associated With Metal-Tolerant Plants in Metalliferous Soils. <i>Frontiers in Microbiology</i> , 2018, 9, 1425.	3.5	59
28	Biodegradation kinetics of the benzimidazole fungicide thiophanate-methyl by bacteria isolated from loamy sand soil. <i>Biodegradation</i> , 2011, 22, 573-583.	3.0	58
29	Links in the functional diversity between soil microorganisms and plant communities during natural succession in coal mine spoil heaps. <i>Ecological Research</i> , 2015, 30, 1005-1014.	1.5	58
30	Microbial diversity and antibiotic resistance in a final effluent-receiving lake. <i>Science of the Total Environment</i> , 2019, 650, 2951-2961.	8.0	57
31	Changes in bacterial diversity and community structure following pesticides addition to soil estimated by cultivation technique. <i>Ecotoxicology</i> , 2009, 18, 632-642.	2.4	56
32	Isolation of hydrocarbon-degrading and biosurfactant-producing bacteria and assessment their plant growth-promoting traits. <i>Journal of Environmental Management</i> , 2016, 168, 175-184.	7.8	56
33	Changes in whole cell-derived fatty acids induced by naphthalene in bacteria from genus <i>Pseudomonas</i> . <i>Microbiological Research</i> , 2004, 159, 87-95.	5.3	55
34	Monitoring the changes in a bacterial community in petroleum-polluted soil bioaugmented with hydrocarbon-degrading strains. <i>Applied Soil Ecology</i> , 2016, 105, 76-85.	4.3	53
35	The effect of bioaugmentation of petroleum-contaminated soil with <i>Rhodococcus erythropolis</i> strains on removal of petroleum from soil. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 615-622.	6.0	52
36	Rhizospheric Bacterial Strain <i>Brevibacterium casei</i> MH8a Colonizes Plant Tissues and Enhances Cd, Zn, Cu Phytoextraction by White Mustard. <i>Frontiers in Plant Science</i> , 2016, 7, 101.	3.6	49

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37	Mycorrhizal fungi and ectomycorrhiza associated bacteria isolated from an industrial desert soil protect pine seedlings against Cd(II) impact. <i>Ecotoxicology</i> , 2007, 16, 449-456.	2.4	48
38	Changes in fatty acid composition in <i>Pseudomonas putida</i> and <i>Pseudomonas stutzeri</i> during naphthalene degradation. <i>Microbiological Research</i> , 2005, 160, 149-157.	5.3	46
39	Effect of <i>Silene vulgaris</i> and Heavy Metal Pollution on Soil Microbial Diversity in Long-Term Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 13.	2.4	45
40	Unique properties of silver and copper silica-based nanocomposites as antimicrobial agents. <i>RSC Advances</i> , 2017, 7, 28092-28104.	3.6	40
41	Variable Effects of Non-steroidal Anti-inflammatory Drugs (NSAIDs) on Selected Biochemical Processes Mediated by Soil Microorganisms. <i>Frontiers in Microbiology</i> , 2016, 7, 1969.	3.5	37
42	Successive soil treatment with captan or oxytetracycline affects non-target microorganisms. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 2843-2848.	3.6	36
43	Changes of FAME profiles as a marker of phenol degradation in different soils inoculated with <i>Pseudomonas</i> sp. CF600. <i>International Biodeterioration and Biodegradation</i> , 2010, 64, 86-96.	3.9	34
44	Enhancement of phenol degradation by soil bioaugmentation with <i>Pseudomonas</i> sp. JS150. <i>Journal of Applied Microbiology</i> , 2011, 111, 1357-1370.	3.1	33
45	Improvement of phytoremediation of an aged petroleum hydrocarbon-contaminated soil by <i>Rhodococcus erythropolis</i> CD 106 strain. <i>International Journal of Phytoremediation</i> , 2017, 19, 614-620.	3.1	31
46	Structural and functional diversity of bacterial community in soil treated with the herbicide napropamide estimated by the DGGE, CLPP and r/K-strategy approaches. <i>Applied Soil Ecology</i> , 2013, 72, 242-250.	4.3	30
47	A broad-spectrum analysis of the effects of teflubenzuron exposure on the biochemical activities and microbial community structure of soil. <i>Journal of Environmental Management</i> , 2012, 108, 27-35.	7.8	27
48	Non-target impact of fungicide tetraconazole on microbial communities in soils with different agricultural management. <i>Ecotoxicology</i> , 2016, 25, 1047-1060.	2.4	27
49	Linuron effects on microbiological characteristics of sandy soils as determined in a pot study. <i>Annals of Microbiology</i> , 2010, 60, 439-449.	2.6	26
50	Microbial characteristics of sandy soils exposed to diazinon under laboratory conditions. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 409-418.	3.6	26
51	Changes in Enzyme Activities and Microbial Community Structure in Heavy Metal-Contaminated Soil under <i>In Situ</i> Aided Phytostabilization. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1618-1625.	1.1	25
52	The relationship between successional vascular plant assemblages and associated microbial communities on coal mine spoil heaps. <i>Community Ecology</i> , 2015, 16, 23-32.	0.9	23
53	A comprehensive study on bisphenol A degradation by newly isolated strains <i>Acinetobacter</i> sp. K1MN and <i>Pseudomonas</i> sp. BG12. <i>Biodegradation</i> , 2021, 32, 1-15.	3.0	23
54	Glomalin gene as molecular marker for functional diversity of arbuscular mycorrhizal fungi in soil. <i>Biology and Fertility of Soils</i> , 2019, 55, 411-417.	4.3	21

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55	Differences in the effects of single and mixed species of AMF on the growth and oxidative stress defense in <i>Lolium perenne</i> exposed to hydrocarbons. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112252.	6.0	21
56	An Analysis of the Effects of Vancomycin and/or Vancomycin-Resistant <i>Citrobacter freundii</i> Exposure on the Microbial Community Structure in Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 1015.	3.5	19
57	Use of the PCR-DGGE Method for the Analysis of the Bacterial Community Structure in Soil Treated With the Cephalosporin Antibiotic Cefuroxime and/or Inoculated With a Multidrug-Resistant <i>Pseudomonas putida</i> Strain MC1. <i>Frontiers in Microbiology</i> , 2018, 9, 1387.	3.5	19
58	Metagenomic Functional Profiling Reveals Differences in Bacterial Composition and Function During Bioaugmentation of Aged Petroleum-Contaminated Soil. <i>Frontiers in Microbiology</i> , 2020, 11, 2106.	3.5	19
59	Biodegradation kinetics of 2,4-D by bacterial strains isolated from soil. <i>Open Life Sciences</i> , 2011, 6, 188-198.	1.4	18
60	Response of microbial communities from an apple orchard and grassland soils to the first-time application of the fungicide tetraconazole. <i>Ecotoxicology and Environmental Safety</i> , 2016, 124, 193-201.	6.0	18
61	Plant association with dark septate endophytes: When the going gets tough (and stressful), the tough fungi get going. <i>Chemosphere</i> , 2022, 302, 134830.	8.2	18
62	Activity and functional diversity of microbial communities in long-term hydrocarbon and heavy metal contaminated soils. <i>Archives of Environmental Protection</i> , 2016, 42, 3-11.	1.1	17
63	Characterization of bacterial diversity in soil contaminated with the macrolide antibiotic erythromycin and/or inoculated with a multidrug-resistant <i>Raoultella</i> sp. strain using the PCR-DGGE approach. <i>Applied Soil Ecology</i> , 2018, 126, 57-64.	4.3	17
64	Dehydrogenase activity as an indicator of different microbial responses to pesticide-treated soils. <i>Chemistry and Ecology</i> , 2010, 26, 243-250.	1.6	16
65	Microbial diversity in waters, sediments and microbial mats evaluated using fatty acid-based methods. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 1487-1496.	3.5	16
66	Comparison of Two Inoculation Methods of Endophytic Bacteria to Enhance Phytodegradation Efficacy of an Aged Petroleum Hydrocarbons Polluted Soil. <i>Agronomy</i> , 2020, 10, 1196.	3.0	16
67	Microbial communities from subglacial water of naled ice bodies in the forefield of Werenskioldbreen, Svalbard. <i>Science of the Total Environment</i> , 2020, 723, 138025.	8.0	15
68	Community Structure of Ammonia-Oxidizing Archaea and Ammonia-Oxidizing Bacteria in Soil Treated with the Insecticide Imidacloprid. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	14
69	Endophytic Bacteria Associated with <i>Hieracium piloselloides</i> : Their Potential for Hydrocarbon-Utilizing and Plant Growth-Promotion. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2015, 78, 860-870.	2.3	12
70	Arbuscular mycorrhizal and microbial profiles of an aged phenol-polluted polynuclear aromatic hydrocarbon-contaminated soil. <i>Ecotoxicology and Environmental Safety</i> , 2020, 192, 110299.	6.0	12
71	FAMEs profiles of phenol-degrading <i>Pseudomonas stutzeri</i> introduced into soil. <i>International Biodeterioration and Biodegradation</i> , 2008, 62, 319-324.	3.9	11
72	Cadmium increases catechol 2,3-dioxygenase activity in <i>Variovorax</i> sp. 12S, a metal-tolerant and phenol-degrading strain. <i>Antonie Van Leeuwenhoek</i> , 2013, 104, 845-853.	1.7	11

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73	Significance of Silver Birch and Bushgrass for Establishment of Microbial Heterotrophic Community in a Metal-Mine Spoil Heap. <i>Water, Air, and Soil Pollution</i> , 2011, 214, 205-218.	2.4	10
74	Functional Diversity of Soil Microbial Communities in Response to the Application of Cefuroxime and/or Antibiotic-Resistant <i>Pseudomonas putida</i> Strain MC1. <i>Sustainability</i> , 2018, 10, 3549.	3.2	10
75	Response of rhizospheric and endophytic bacterial communities of white mustard (<i>Sinapis alba</i>) to bioaugmentation of soil with the <i>Pseudomonas</i> sp. H15 strain. <i>Ecotoxicology and Environmental Safety</i> , 2020, 194, 110434.	6.0	10
76	Physicochemical and structural features of heat treated silver-silica nanocomposite and their impact on biological properties. <i>Materials Science and Engineering C</i> , 2019, 103, 109790.	7.3	9
77	High concentrations of HgS, MeHg and toxic gas emissions in thermally affected waste dumps from hard coal mining in Poland. <i>Journal of Hazardous Materials</i> , 2022, 431, 128542.	12.4	9
78	Toward the Development of an Innovative Implant: NiTi Alloy Functionalized by Multifunctional $\text{TiO}_2\text{-TCP+Ag/SiO}_2$ Coatings. <i>ACS Applied Bio Materials</i> , 2019, 2, 987-998.	4.6	8
79	Genome Mining Revealed a High Biosynthetic Potential for Antifungal <i>Streptomyces</i> sp. S-2 Isolated from Black Soot. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2558.	4.1	7
80	Antifungal Activity and Biosynthetic Potential of New <i>Streptomyces</i> sp. MW-W600-10 Strain Isolated from Coal Mine Water. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7441.	4.1	7
81	Vancomycin and/or Multidrug-Resistant <i>Citrobacter freundii</i> Altered the Metabolic Pattern of Soil Microbial Community. <i>Frontiers in Microbiology</i> , 2018, 9, 1047.	3.5	6
82	A High Manganese-Tolerant <i>Pseudomonas</i> sp. Strain Isolated from Metallurgical Waste Heap Can Be a Tool for Enhancing Manganese Removal from Contaminated Soil. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5717.	2.5	6
83	GFP-tagged multimetal-tolerant bacteria and their detection in the rhizosphere of white mustard. <i>Annals of Microbiology</i> , 2012, 62, 559-567.	2.6	4
84	Characterization of <i>Bacillus</i> Strains Producing Biosurfactants. , 2015, , 173-183.		3
85	Cellular fatty acid patterns in <i>Pseudomonas</i> sp. CF600 during catechol and phenol degradation in media supplemented with glucose as an additional carbon source. <i>Annals of Microbiology</i> , 2006, 56, 57-64.	2.6	2
86	Application of Erythromycin and/or <i>Raoultella</i> sp. Strain MC3 Alters the Metabolic Activity of Soil Microbial Communities as Revealed by the Community Level Physiological Profiling Approach. <i>Microorganisms</i> , 2020, 8, 1860.	3.6	2
87	Physical and Chemical Studies of Bacterial Bioaerosols at Wastewater Treatment Plant Using Scanning Electron Mikroskopy and X-Ray Photoelectron Spectroscopy. <i>Solid State Phenomena</i> , 0, 186, 32-36.	0.3	0
88	Sewage Sludge Land Application: Benefits, Risks and Changes in Soil Microbial Communities. , 0, , .		0
89	The Fate of Beta-Lactam Resistance Determinants within the Wastewater Treatment Plant in $\text{Å}^{\text{y}}\text{w}^{\text{y}}\text{w}^{\text{y}}\text{e}^{\text{y}}\text{c}$ and in Final Effluent Receiving $\text{Å}^{\text{y}}\text{w}^{\text{y}}\text{w}^{\text{y}}\text{e}^{\text{y}}\text{c}$ Lake. , 0, , .		0
90	Characterization of Endophytic <i>Pseudomonas</i> Sp. 16 Strain and Its Use for the Enhancement of Phytoextraction. , 0, , .		0