

Zygmunt Mariusz Gusiatin

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,397
citations

394286

19
h-index

360920

35
g-index

66
all docs

66
docs citations

66
times ranked

1458
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-application of nanosized halloysite and biochar as soil amendments in aided phytostabilization of metal(-oid)s-contaminated soil under different temperature conditions. <i>Chemosphere</i> , 2022, 288, 132452.	4.2	7
2	Flushing of Soils Highly Contaminated with Cd Using Various Washing Agents Derived from Sewage Sludge. <i>Energies</i> , 2022, 15, 349.	1.6	3
3	Biochar-Assisted Phytostabilization for Potentially Toxic Element Immobilization. <i>Sustainability</i> , 2022, 14, 445.	1.6	7
4	Effect of Biochar on Metal Distribution and Microbiome Dynamic of a Phytostabilized Metalloid-Contaminated Soil Following Freeze-Thaw Cycles. <i>Materials</i> , 2022, 15, 3801.	1.3	5
5	Environmental impact assessment of risk elements from railway transport with the use of pollution indices, a biotest and bioindicators. <i>Human and Ecological Risk Assessment (HERA)</i> , 2021, 27, 517-540.	1.7	9
6	Biochar Role in Soil Carbon Stabilization and Crop Productivity. , 2021, , 1-46.		1
7	Can the Application of Municipal Sewage Sludge Compost in the Aided Phytostabilization Technique Provide an Effective Waste Management Method?. <i>Energies</i> , 2021, 14, 1984.	1.6	10
8	Nano Zero Valent Iron (nZVI) as an Amendment for Phytostabilization of Highly Multi-PTE Contaminated Soil. <i>Materials</i> , 2021, 14, 2559.	1.3	9
9	Short-Term Soil Flushing with Tannic Acid and Its Effect on Metal Mobilization and Selected Properties of Calcareous Soil. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5698.	1.2	5
10	Kinetics of Cu, Pb and Zn removal during soil flushing with washing agents derived from sewage sludge. <i>Scientific Reports</i> , 2021, 11, 10067.	1.6	2
11	Insight into metal immobilization and microbial community structure in soil from a steel disposal dump phytostabilized with composted, pyrolyzed or gasified wastes. <i>Chemosphere</i> , 2021, 272, 129576.	4.2	39
12	Recycling of Blast Furnace and Coal Slags in Aided Phytostabilisation of Soils Highly Polluted with Heavy Metals. <i>Energies</i> , 2021, 14, 4300.	1.6	1
13	Quality of heavy metal-contaminated soil before and after column flushing with washing agents derived from municipal sewage sludge. <i>Scientific Reports</i> , 2021, 11, 15773.	1.6	6
14	A holistic approach to remediation of soil contaminated with Cu, Pb and Zn with sewage sludge-derived washing agents and synthetic chelator. <i>Journal of Cleaner Production</i> , 2021, 311, 127664.	4.6	22
15	Assessing the potential of biochar aged by humic substances to enhance plant growth and soil biological activity. <i>Chemical and Biological Technologies in Agriculture</i> , 2021, 8, .	1.9	10
16	A critical review of the possible adverse effects of biochar in the soil environment. <i>Science of the Total Environment</i> , 2021, 796, 148756.	3.9	113
17	Remediation of Smelter Contaminated Soil by Sequential Washing Using Biosurfactants. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12875.	1.2	3
18	Washing agents from sewage sludge: efficiency of Cd removal from highly contaminated soils and effect on soil organic balance. <i>Journal of Soils and Sediments</i> , 2020, 20, 284-296.	1.5	13

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19	Assisted phytostabilization of soil from a former military area with mineral amendments. <i>Ecotoxicology and Environmental Safety</i> , 2020, 188, 109934.	2.9	21
20	A Mineral By-Product from Gasification of Poultry Feathers for Removing Cd from Highly Contaminated Synthetic Wastewater. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1048.	0.8	7
21	New-Generation Washing Agents in Remediation of Metal-Polluted Soils and Methods for Washing Effluent Treatment: A Review. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6220.	1.2	37
22	Successful Outcome of Phytostabilization in Cr(VI) Contaminated Soils Amended with Alkalizing Additives. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6073.	1.2	6
23	Suitability of environmental indices in assessment of soil remediation with conventional and next generation washing agents. <i>Scientific Reports</i> , 2020, 10, 20586.	1.6	18
24	Composting versus mechanical biological treatment: Does it really make a difference in the final product parameters and maturity. <i>Waste Management</i> , 2020, 106, 173-183.	3.7	23
25	Immobilization of Potentially Toxic Elements (PTE) by Mineral-Based Amendments: Remediation of Contaminated Soils in Post-Industrial Sites. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 87.	0.8	16
26	Novel combined amendments for sustainable remediation of the Pb-contaminated soil. <i>AIMS Environmental Science</i> , 2020, 7, 1-12.	0.7	0
27	Using Mosses as Bioindicators of Potentially Toxic Element Contamination in Ecologically Valuable Areas Located in the Vicinity of a Road: A Case Study. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3963.	1.2	8
28	Sequential soil washing with mixed biosurfactants is suitable for simultaneous removal of multi-metals from soils with different properties, pollution levels and ages. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	9
29	Simultaneous Multi-metal Removal from Soil with Washing Agents of Waste, Plant and Microbial Origin. <i>Soil and Sediment Contamination</i> , 2019, 28, 773-791.	1.1	3
30	The combined effect of phytostabilization and different amendments on remediation of soils from post-military areas. <i>Science of the Total Environment</i> , 2019, 688, 37-45.	3.9	36
31	Soils from an iron and steel scrap storage yard remediated with aided phytostabilization. <i>Land Degradation and Development</i> , 2019, 30, 202-211.	1.8	8
32	Sewage sludge can provide a washing agent for remediation of soil from a metallurgical area. <i>Catena</i> , 2019, 173, 22-28.	2.2	20
33	Tannic acid for remediation of historically arsenic-contaminated soils. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1050-1061.	1.2	11
34	EFFECT OF TEMPERATURE CONDITIONS ON Cu, Ni, Zn AND Fe COMPLEXATION BY HUMIC SUBSTANCES DURING SEWAGE SLUDGE COMPOSTING. <i>Environmental Engineering and Management Journal</i> , 2019, 18, 213-223.	0.2	2
35	Saponin Versus Rhamnolipids for Remediation of Cd Contaminated Soils. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1700071.	0.7	8
36	Ecological risk assessment of sewage sludge from municipal wastewater treatment plants: a case study. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 1167-1176.	0.9	8

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37	Novel and Eco-Friendly Washing Agents to Remove Heavy Metals from Soil by Soil Washing. <i>Environmental Analysis & Ecology Studies</i> , 2018, 2, .	0.0	1
38	Suitability of humic substances recovered from sewage sludge to remedy soils from a former As mining area – a novel approach. <i>Journal of Hazardous Materials</i> , 2017, 338, 160-166.	6.5	31
39	Potential of using immobilizing agents in aided phytostabilization on simulated contamination of soil with lead. <i>Ecological Engineering</i> , 2017, 102, 490-500.	1.6	50
40	Influence of Soil Aging and Stabilization with Compost on Zn and Cu Fractionation, Stability, and Mobility. <i>Clean - Soil, Air, Water</i> , 2016, 44, 272-283.	0.7	12
41	Comparison of selected methods used in the assessment of contamination with heavy metals in littoral sediments of lakes. <i>Oceanological and Hydrobiological Studies</i> , 2016, 45, 493-504.	0.3	0
42	Properties of biochars from conventional and alternative feedstocks and their suitability for metal immobilization in industrial soil. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21249-21261.	2.7	26
43	Behaviors of heavy metals (Cd, Cu, Ni, Pb and Zn) in soil amended with composts. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2337-2347.	1.2	32
44	Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (<i>Brassica napus</i>). <i>Environmental Science and Pollution Research</i> , 2016, 23, 10693-10701.	2.7	52
45	Evaluation with scanning electron microscopy of Cd, Cu, and Zn removal from aqueous solutions by ash from gasification of poultry feathers. <i>Environmental Biotechnology</i> , 2016, 12, 17-25.	1.5	0
46	2 Biomass for fuels – classification and composition. , 2016, , 15-36.		0
47	ADM1-based modeling of anaerobic codigestion of maize silage and cattle manure – a feedstock characterisation for model implementation (part I) / Modelowanie kofermentacji kiszonki kukurydzy i obornika bydłowego za pomocą... ADM1 – charakterystyka wsadu surowcowego (cz. I). <i>Archives of Environmental Protection</i> , 2015, 41, 11-19.	1.1	8
48	ADM1-based modeling of anaerobic codigestion of maize silage and cattle manure – calibration of parameters and model verification (part II) / Modelowanie kofermentacji kiszonki kukurydzy i obornika bydłowego za pomocą... ADM1 – kalibracja i weryfikacja modelu (cz. II). <i>Archives of Environmental Protection</i> , 2015, 41, 20-27.	1.1	10
49	Fe-modified Clinoptilolite is Effective to Recover Plant Biosurfactants Used for Removing Arsenic From Soil. <i>Clean - Soil, Air, Water</i> , 2015, 43, 1224-1231.	0.7	5
50	Humic substances from sewage sludge compost as washing agent effectively remove Cu and Cd from soil. <i>Chemosphere</i> , 2015, 136, 42-49.	4.2	118
51	Influence of compost maturation time on Cu and Zn mobility (M F) and redistribution (I R) in highly contaminated soil. <i>Environmental Earth Sciences</i> , 2015, 74, 6233-6246.	1.3	21
52	Sewage sludge composting in a two-stage system: Carbon and nitrogen transformations and potential ecological risk assessment. <i>Waste Management</i> , 2015, 38, 312-320.	3.7	49
53	Semi-continuous anaerobic digestion of different silage crops: VFAs formation, methane yield from fiber and non-fiber components and digestate composition. <i>Bioresource Technology</i> , 2015, 190, 201-210.	4.8	46
54	Feasibility of using humic substances from compost to remove heavy metals (Cd, Cu, Ni, Pb, Zn) from contaminated soil aged for different periods of time. <i>Journal of Hazardous Materials</i> , 2015, 300, 882-891.	6.5	148

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55	Surface tension technique as a strategy to evaluate the adsorption of biosurfactants used in soil remediation. <i>Environmental Biotechnology</i> , 2015, 11, 27-33.	1.5	4
56	Recycling potential of air pollution control residue from sewage sludge thermal treatment as artificial lightweight aggregates. <i>Waste Management and Research</i> , 2014, 32, 221-227.	2.2	13
57	Tannic acid and saponin for removing arsenic from brownfield soils: Mobilization, distribution and speciation. <i>Journal of Environmental Sciences</i> , 2014, 26, 855-864.	3.2	38
58	The usability of the IR, RAC and MRI indices of heavy metal distribution to assess the environmental quality of sewage sludge composts. <i>Waste Management</i> , 2014, 34, 1227-1236.	3.7	42
59	Micronucleus assay in epithelial cells from the oral cavity and urinary tract in female smokers and non-smokers. <i>Environmental Biotechnology</i> , 2014, 10, 66-72.	1.5	9
60	Production of Biogas Using Maize Silage Supplemented with Residual Glycerine from Biodiesel Manufacturing. <i>Archives of Environmental Protection</i> , 2014, 40, 17-29.	1.1	7
61	Optimization of anaerobic digestion of a mixture of Zea mays and Miscanthus sacchariflorus silages with various pig manure dosages. <i>Bioresource Technology</i> , 2012, 125, 208-216.	4.8	8
62	Metal (Cu, Cd and Zn) removal and stabilization during multiple soil washing by saponin. <i>Chemosphere</i> , 2012, 86, 383-391.	4.2	138
63	Efficiency of nitrification and organics removal from municipal landfill leachate in the rotating biological contactor (RBC). <i>Desalination and Water Treatment</i> , 2011, 33, 125-131.	1.0	8
64	Biomass for Biofuels. , 0, , .		10
65	Characteristics of humic substances from municipal sewage sludge: a case study. , 0, 144, 57-64.		5