Zygmunt Mariusz Gusiatin

List of Publications by Year
in descending order

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	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. Journal of Hazardous Materials, 2015, 300, 882-891.	6.5	148
2	Metal (Cu, Cd and Zn) removal and stabilization during multiple soil washing by saponin. Chemosphere, 2012, 86, 383-391.	4.2	138
3	Humic substances from sewage sludge compost as washing agent effectively remove Cu and Cd from soil. Chemosphere, 2015, 136, 42-49.	4.2	118
4	A critical review of the possible adverse effects of biochar in the soil environment. Science of the Total Environment, 2021, 796, 148756.	3.9	113
5	Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (Brassica napus). Environmental Science and Pollution Research, 2016, 23, 10693-10701.	2.7	52
6	Potential of using immobilizing agents in aided phytostabilization on simulated contamination of soil with lead. Ecological Engineering, 2017, 102, 490-500.	1.6	50
7	Sewage sludge composting in a two-stage system: Carbon and nitrogen transformations and potential ecological risk assessment. Waste Management, 2015, 38, 312-320.	3.7	49
8	Semi-continuous anaerobic digestion of different silage crops: VFAs formation, methane yield from fiber and non-fiber components and digestate composition. Bioresource Technology, 2015, 190, 201-210.	4.8	46
9	The usability of the IR, RAC and MRI indices of heavy metal distribution to assess the environmental quality of sewage sludge composts. Waste Management, 2014, 34, 1227-1236.	3.7	42
10	Insight into metal immobilization and microbial community structure in soil from a steel disposal dump phytostabilized with composted, pyrolyzed or gasified wastes. Chemosphere, 2021, 272, 129576.	4.2	39
11	Tannic acid and saponin for removing arsenic from brownfield soils: Mobilization, distribution and speciation. Journal of Environmental Sciences, 2014, 26, 855-864.	3.2	38
12	New-Generation Washing Agents in Remediation of Metal-Polluted Soils and Methods for Washing Effluent Treatment: A Review. International Journal of Environmental Research and Public Health, 2020, 17, 6220.	1.2	37
13	The combined effect of phytostabilization and different amendments on remediation of soils from post-military areas. Science of the Total Environment, 2019, 688, 37-45.	3.9	36
14	Behaviors of heavy metals (Cd, Cu, Ni, Pb and Zn) in soil amended with composts. Environmental Technology (United Kingdom), 2016, 37, 2337-2347.	1.2	32
15	Suitability of humic substances recovered from sewage sludge to remedy soils from a former As mining area â€“ a novel approach. Journal of Hazardous Materials, 2017, 338, 160-166.	6.5	31
16	Properties of biochars from conventional and alternative feedstocks and their suitability for metal immobilization in industrial soil. Environmental Science and Pollution Research, 2016, 23, 21249-21261.	2.7	26
17	Composting versus mechanicalâ€“biological treatment: Does it really make a difference in the final product parameters and maturity. Waste Management, 2020, 106, 173-183.	3.7	23
18	A holistic approach to remediation of soil contaminated with Cu, Pb and Zn with sewage sludge-derived washing agents and synthetic chelator. Journal of Cleaner Production, 2021, 311, 127664.	4.6	22

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19	Influence of compost maturation time on Cu and Zn mobility (M F) and redistribution (I R) in highly contaminated soil. Environmental Earth Sciences, 2015, 74, 6233-6246.	1.3	21
20	Assisted phytostabilization of soil from a former military area with mineral amendments. Ecotoxicology and Environmental Safety, 2020, 188, 109934.	2.9	21
21	Sewage sludge can provide a washing agent for remediation of soil from a metallurgical area. Catena, 2019, 173, 22-28.	2.2	20
22	Suitability of environmental indices in assessment of soil remediation with conventional and next generation washing agents. Scientific Reports, 2020, 10, 20586.	1.6	18
23	Immobilization of Potentially Toxic Elements (PTE) by Mineral-Based Amendments: Remediation of Contaminated Soils in Post-Industrial Sites. Minerals (Basel, Switzerland), 2020, 10, 87.	0.8	16
24	Recycling potential of air pollution control residue from sewage sludge thermal treatment as artificial lightweight aggregates. Waste Management and Research, 2014, 32, 221-227.	2.2	13
25	Washing agents from sewage sludge: efficiency of Cd removal from highly contaminated soils and effect on soil organic balance. Journal of Soils and Sediments, 2020, 20, 284-296.	1.5	13
26	Influence of Soil Aging and Stabilization with Compost on Zn and Cu Fractionation, Stability, and Mobility. Clean - Soil, Air, Water, 2016, 44, 272-283.	0.7	12
27	Tannic acid for remediation of historically arsenic-contaminated soils. Environmental Technology (United Kingdom), 2019, 40, 1050-1061.	1.2	11
28	ADM1-based modeling of anaerobic codigestion of maize silage and cattle manure â€“ calibration of parameters and model verification (part II) / Modelowanie kofermentacji kiszonki kukurydzy i obornika bydlÄ™cego za pomocÄ... ADM1 â€“ kalibracja i weryfikacja modelu (czÄ™Å›Ä‡ II). Archives of Environmental Protection, 2015, 41, 20-27.	1.1	10
29	Can the Application of Municipal Sewage Sludge Compost in the Aided Phytostabilization Technique Provide an Effective Waste Management Method?. Energies, 2021, 14, 1984.	1.6	10
30	Assessing the potential of biochar aged by humic substances to enhance plant growth and soil biological activity. Chemical and Biological Technologies in Agriculture, 2021, 8, .	1.9	10
31	Biomass for Biofuels. , 0, , .		10
32	Sequential soil washing with mixed biosurfactants is suitable for simultaneous removal of multi-metals from soils with different properties, pollution levels and ages. Environmental Earth Sciences, 2019, 78, 1.	1.3	9
33	Environmental impact assessment of risk elements from railway transport with the use of pollution indices, a biotest and bioindicators. Human and Ecological Risk Assessment (HERA), 2021, 27, 517-540.	1.7	9
34	Nano Zero Valent Iron (nZVI) as an Amendment for Phytostabilization of Highly Multi-PTE Contaminated Soil. Materials, 2021, 14, 2559.	1.3	9
35	Micronucleus assay in epithelial cells from the oral cavity and urinary tract in female smokers and non-smokers. Environmental Biotechnology, 2014, 10, 66-72.	1.5	9
36	Efficiency of nitrification and organics removal from municipal landfill leachate in the rotating biological contactor (RBC). Desalination and Water Treatment, 2011, 33, 125-131.	1.0	8

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37	Optimization of anaerobic digestion of a mixture of Zea mays and Miscanthus sacchariflorus silages with various pig manure dosages. Bioresource Technology, 2012, 125, 208-216.	4.8	8
38	ADM1-based modeling of anaerobic codigestion of maize silage and cattle manure â€“ a feedstock characterisation for model implementation (part I) / Modelowanie kofermentacji kiszonki kukurydzy i obornika bydlÄ™cego za pomocÄ... ADM1 â€“ charakterystyka wsadu surowcowego (czÄ™Å›Ä‡ I). Archives of Environmental Protection, 2015, 41, 11-19.	1.1	8
39	Saponin Versus Rhamnolipids for Remediation of Cd Contaminated Soils. Clean - Soil, Air, Water, 2018, 46, 1700071.	0.7	8
40	Ecological risk assessment of sewage sludge from municipal wastewater treatment plants: a case study. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 1167-1176.	0.9	8
41	Using Mosses as Bioindicators of Potentially Toxic Element Contamination in Ecologically Valuable Areas Located in the Vicinity of a Road: A Case Study. International Journal of Environmental Research and Public Health, 2019, 16, 3963.	1.2	8
42	Soils from an iron and steel scrap storage yard remediated with aided phytostabilization. Land Degradation and Development, 2019, 30, 202-211.	1.8	8
43	A Mineral By-Product from Gasification of Poultry Feathers for Removing Cd from Highly Contaminated Synthetic Wastewater. Minerals (Basel, Switzerland), 2020, 10, 1048.	0.8	7
44	Production of Biogas Using Maize Silage Supplemented with Residual Glycerine from Biodiesel Manufacturing. Archives of Environmental Protection, 2014, 40, 17-29.	1.1	7
45	Co-application of nanosized halloysite and biochar as soil amendments in aided phytostabilization of metal(-oid)s-contaminated soil under different temperature conditions. Chemosphere, 2022, 288, 132452.	4.2	7
46	Biochar-Assisted Phytostabilization for Potentially Toxic Element Immobilization. Sustainability, 2022, 14, 445.	1.6	7
47	Successful Outcome of Phytostabilization in Cr(VI) Contaminated Soils Amended with Alkalizing Additives. International Journal of Environmental Research and Public Health, 2020, 17, 6073.	1.2	6
48	Quality of heavy metal-contaminated soil before and after column flushing with washing agents derived from municipal sewage sludge. Scientific Reports, 2021, 11, 15773.	1.6	6
49	Feâ€modified Clinoptilolite is Effective to Recover Plant Biosurfactants Used for Removing Arsenic From Soil. Clean - Soil, Air, Water, 2015, 43, 1224-1231.	0.7	5
50	Short-Term Soil Flushing with Tannic Acid and Its Effect on Metal Mobilization and Selected Properties of Calcareous Soil. International Journal of Environmental Research and Public Health, 2021, 18, 5698.	1.2	5
51	Characteristics of humic substances from municipal sewage sludge: a case study. , 0, 144, 57-64.		5
52	Effect of Biochar on Metal Distribution and Microbiome Dynamic of a Phytostabilized Metalloid-Contaminated Soil Following Freezeâ€“Thaw Cycles. Materials, 2022, 15, 3801.	1.3	5
53	Surface tension technique as a strategy to evaluate the adsorption of biosurfactants used in soil remediation. Environmental Biotechnology, 2015, 11, 27-33.	1.5	4
54	Simultaneous Multi-metal Removal from Soil with Washing Agents of Waste, Plant and Microbial Origin. Soil and Sediment Contamination, 2019, 28, 773-791.	1.1	3

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55	Flushing of Soils Highly Contaminated with Cd Using Various Washing Agents Derived from Sewage Sludge. Energies, 2022, 15, 349.	1.6	3
56	Remediation of Smelter Contaminated Soil by Sequential Washing Using Biosurfactants. International Journal of Environmental Research and Public Health, 2021, 18, 12875.	1.2	3
57	Kinetics of Cu, Pb and Zn removal during soil flushing with washing agents derived from sewage sludge. Scientific Reports, 2021, 11, 10067.	1.6	2
58	EFFECT OF TEMPERATURE CONDITIONS ON Cu, Ni, Zn AND Fe COMPLEXATION BY HUMIC SUBSTANCES DURING SEWAGE SLUDGE COMPOSTING. Environmental Engineering and Management Journal, 2019, 18, 213-223.	0.2	2
59	Biochar Role in Soil Carbon Stabilization and Crop Productivity. , 2021, , 1-46.		1
60	Recycling of Blast Furnace and Coal Slags in Aided Phytostabilisation of Soils Highly Polluted with Heavy Metals. Energies, 2021, 14, 4300.	1.6	1
61	Novel and Eco-Friendly Washing Agents to Remove Heavy Metals from Soil by Soil Washing. Environmental Analysis & Ecology Studies, 2018, 2, .	0.0	1
62	Comparison of selected methods used in the assessment of contamination with heavy metals in littoral sediments of lakes. Oceanological and Hydrobiological Studies, 2016, 45, 493-504.	0.3	0
63	Evaluation with scanning electron microscopy of Cd, Cu, and Zn removal from aqueous solutions by ash from gasification of poultry feathers. Environmental Biotechnology, 2016, 12, 17-25.	1.5	0
64	2 Biomass for fuels â€“ classification and composition. , 2016, , 15-36.		0
65	Novel combined amendments for sustainable remediation of the Pb-contaminated soil. AIMS Environmental Science, 2020, 7, 1-12.	0.7	0