

Peter MatÅ°Å¡

List of Publications by Year in descending order

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56
papers

881
citations

430874

18
h-index

526287

27
g-index

56
all docs

56
docs citations

56
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of optimized BCR three-step sequential and dilute HCl single extraction procedures for soil "plant metal transfer predictions in contaminated lands. <i>Talanta</i> , 2008, 75, 1110-1122.	5.5	64
2	Determination of trace amounts of gold in acid-attacked environmental samples by atomic absorption spectrometry with electrothermal atomization after preconcentration. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 60-65.	3.7	51
3	Ascorbic acid protects <i>Coccomyxa subellipsoidea</i> against metal toxicity through modulation of ROS/NO balance and metal uptake. <i>Journal of Hazardous Materials</i> , 2017, 339, 200-207.	12.4	49
4	Fractionation of various elements in CRMs and in polluted soils. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 108-114.	3.7	42
5	Aluminium leaching from red mud by filamentous fungi. <i>Journal of Inorganic Biochemistry</i> , 2015, 152, 154-159.	3.5	42
6	Potential of Microscopic Fungi Isolated from Mercury Contaminated Soils to Accumulate and Volatilize Mercury(II). <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	40
7	Free aluminium extraction from various reference materials and acid soils with relation to plant availability. <i>Talanta</i> , 2006, 70, 996-1005.	5.5	35
8	Bioaccumulation and biovolatilization of various elements using filamentous fungus <i>Scopulariopsis brevicaulis</i> . <i>Letters in Applied Microbiology</i> , 2014, 59, 217-223.	2.2	35
9	Influence of acid mining activity on release of aluminium to the environment. <i>Analytica Chimica Acta</i> , 2005, 547, 119-125.	5.4	33
10	Application of New Resin Gels for Measuring Mercury by Diffusive Gradients in a Thin-films Technique. <i>Analytical Sciences</i> , 2009, 25, 575-578.	1.6	25
11	Antimony leaching from antimony-bearing ferric oxyhydroxides by filamentous fungi and biotransformation of ferric substrate. <i>Science of the Total Environment</i> , 2019, 664, 683-689.	8.0	24
12	Evaluation of separation and determination of phytoavailable and phytotoxic aluminium species fractions in soil, sediment and water samples by five different methods. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1214-1223.	3.5	23
13	Chemical partitioning of aluminium in rocks, soils, and sediments acidified by mining activity. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 379, 96-103.	3.7	22
14	Complexation of labile aluminium species by chelating resins Iontosorb " a new method for Al environmental risk assessment. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1769-1778.	3.5	22
15	Determination of trace amounts of total dissolved cationic aluminium species in environmental samples by solid phase extraction using nanometer-sized titanium dioxide and atomic spectrometry techniques. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1473-1479.	3.5	20
16	Complexation efficiency of differently fixed 8-hydroxyquinoline and salicylic acid ligand groups for labile aluminium species determination in soils " comparison of two methods. <i>Analytica Chimica Acta</i> , 2006, 573-574, 474-481.	5.4	19
17	Fungal solubilization of manganese oxide and its significance for antimony mobility. <i>International Biodeterioration and Biodegradation</i> , 2016, 114, 157-163.	3.9	19
18	Evaluation of Various Inorganic and Biological Extraction Techniques Suitability for Soil Mercury Phytoavailable Fraction Assessment. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	18

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19	Fungal Selenium(VI) Accumulation and Biotransformation of Filamentous Fungi in Selenate Contaminated Aqueous Media Remediation. <i>Clean - Soil, Air, Water</i> , 2016, 44, 610-614.	1.1	18
20	Determination of operationally defined fractions of aluminium in reference materials and acid attacked environmental samples. <i>Analytica Chimica Acta</i> , 2005, 540, 33-43.	5.4	17
21	Partitioning and stability of ionic, nano- and micro-sized zinc in natural soil suspensions. <i>Science of the Total Environment</i> , 2020, 700, 134445.	8.0	17
22	Identifying the origin of soil water repellency at regional level using multiple soil characteristics: The White Carpathians and Myjavská pahorkatina Upland case study. <i>Soil and Water Research</i> , 2015, 10, 78-89.	1.7	15
23	Role of water repellency in aggregate stability of cultivated soils under simulated raindrop impact. <i>Eurasian Soil Science</i> , 2015, 48, 754-758.	1.6	14
24	Aluminium Leaching by Heterotrophic Microorganism <i>Aspergillus niger</i> : An Acidic Leaching?. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 2369-2374.	3.0	14
25	Coacervative extraction of trace lead from natural waters prior to its determination by electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 88, 75-79.	2.9	13
26	Structural transformation of NANOPERM-type metallic glasses followed in situ by synchrotron radiation during thermal annealing in external magnetic field. <i>Journal of Alloys and Compounds</i> , 2015, 638, 398-404.	5.5	13
27	Evaluation of aluminium mobilization from its soil mineral pools by simultaneous effect of <i>Aspergillus</i> strains' acidic and chelating exometabolites. <i>Journal of Inorganic Biochemistry</i> , 2018, 181, 162-168.	3.5	13
28	Chemical mimicking of bio-assisted aluminium extraction by <i>Aspergillus niger</i> 's exometabolites. <i>Environmental Pollution</i> , 2016, 218, 281-288.	7.5	12
29	Removal of aluminium from aqueous solution by four wild-type strains of <i>Aspergillus niger</i> . <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 291-296.	3.4	12
30	Sorption of Humic Acids onto Fungal Surfaces and Its Effect on Heavy Metal Mobility. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	11
31	Iodine fractionation in agricultural and forest soils using extraction methods. <i>Catena</i> , 2020, 195, 104749.	5.0	10
32	Selenite Distribution in Multicomponent System Consisting of Filamentous Fungus, Humic Acids, Bentonite, and Ferric Oxyhydroxides. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	9
33	Fungal bioextraction of iron from kaolin. <i>Chemical Papers</i> , 2019, 73, 3025-3029.	2.2	9
34	Iodine Fractions in Soil and Their Determination. <i>Forests</i> , 2021, 12, 1512.	2.1	9
35	Distribution of TiO ₂ Nanoparticles in Acidic and Alkaline Soil and Their Accumulation by <i>Aspergillus niger</i> . <i>Agronomy</i> , 2020, 10, 1833.	3.0	8
36	Mobilisation of hazardous elements from arsenic-rich mine drainage ochres by three <i>Aspergillus</i> species. <i>Journal of Hazardous Materials</i> , 2021, 409, 124938.	12.4	8

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37	Thallium fractionation in polluted environmental samples using a modified BCR three-step sequential extraction procedure and its determination by electrothermal atomic absorption spectrometry. <i>Chemical Papers</i> , 2008, 62, .	2.2	7
38	Fungus <i>Aspergillus niger</i> Processes Exogenous Zinc Nanoparticles into a Biogenic Oxalate Mineral. <i>Journal of Fungi</i> (Basel, Switzerland), 2020, 6, 210.	3.5	7
39	<i>Aspergillus niger</i> enhances oxalate production as a response to phosphate deficiency induced by aluminium(III). <i>Journal of Inorganic Biochemistry</i> , 2020, 204, 110961.	3.5	6
40	<i>Aspergillus niger</i> Decreases Bioavailability of Arsenic(V) via Biotransformation of Manganese Oxide into Biogenic Oxalate Minerals. <i>Journal of Fungi</i> (Basel, Switzerland), 2020, 6, 270.	3.5	6
41	Exchange Counterion in Polycationic Hydrogels: Tunability of Hydrophobicity, Water State, and Floating Capability for a Floating pH Device. <i>Gels</i> , 2021, 7, 109.	4.5	6
42	The Effect of High Selenite and Selenate Concentrations on Ferric Oxyhydroxides Transformation under Alkaline Conditions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9955.	4.1	6
43	Mercury in mercury(II)-spiked soils is highly susceptible to plant bioaccumulation. <i>International Journal of Phytoremediation</i> , 2016, 18, 195-199.	3.1	5
44	Increased Colloidal Stability and Decreased Solubilityâ€”Solâ€”Gel Synthesis of Zinc Oxide Nanoparticles with Humic Acids. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3024-3030.	0.9	5
45	Bioleaching of Manganese Oxides at Different Oxidation States by Filamentous Fungus <i>Aspergillus niger</i> . <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 808.	3.5	5
46	Fungal Mobilization of Selenium in the Presence of Hausmannite and Ferric Oxyhydroxides. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 810.	3.5	5
47	Bismuth(III) Volatilization and Immobilization by Filamentous Fungus <i>Aspergillus clavatus</i> During Aerobic Incubation. <i>Archives of Environmental Contamination and Toxicology</i> , 2015, 68, 405-411.	4.1	4
48	Sequential Extraction Resulted in Similar Fractionation of Ionic Zn, Nano- and Microparticles of ZnO in Acidic and Alkaline Soil. <i>Forests</i> , 2020, 11, 1077.	2.1	4
49	Structural modifications of metallic glasses followed by techniques of nuclear resonances. <i>Pure and Applied Chemistry</i> , 2017, 89, 405-417.	1.9	3
50	Low temperature behavior of hyperfine fields in amorphous and nanocrystalline FeMoCuB. <i>Journal of Applied Physics</i> , 2015, 117, 17B718.	2.5	2
51	Fungal-induced modification of spontaneously precipitated ochreous sediments from drainage of abandoned antimony mine. <i>Chemosphere</i> , 2021, 269, 128733.	8.2	2
52	Comparison of two morphologically different fungal biomass types for experimental separation of labile aluminium species using atomic spectrometry methods. <i>Chemical Papers</i> , 2019, 73, 3019-3023.	2.2	1
53	Surface Features of Nanocrystalline Alloys. <i>Croatica Chemica Acta</i> , 2015, 88, 539-545.	0.4	1
54	Temperature Behaviour of Hyperfine Magnetic Fields in a Fe-Co-Si-B-Mo-P Metallic Glass Followed with ⁵⁷ Fe MÃ¶ssbauer Spectrometry. <i>Acta Physica Polonica A</i> , 2017, 131, 744-746.	0.5	1

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55	Methods of <i>Ex Situ</i> and <i>In Situ</i> Investigations of Structural Transformations: The Case of Crystallization of Metallic Glasses. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	0
56	Sorptive and Redox Interactions of Humic Substances and Metal(loid)s in the Presence of Microorganisms. <i>Fungal Biology</i> , 2021, , 201-215.	0.6	0