

Dirk Merten

List of Publications by Year in descending order

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56
papers

2,008
citations

304743

22
h-index

243625

44
g-index

56
all docs

56
docs citations

56
times ranked

2497
citing authors

#	ARTICLE	IF	CITATIONS
1	Siderophores mediate reduced and increased uptake of cadmium by <i>Streptomyces tendae</i> F4 and sunflower (<i>Helianthus annuus</i>), respectively. <i>Journal of Applied Microbiology</i> , 2009, 107, 1687-1696.	3.1	326
2	Metal-induced oxidative stress impacting plant growth in contaminated soil is alleviated by microbial siderophores. <i>Soil Biology and Biochemistry</i> , 2009, 41, 154-162.	8.8	238
3	Hydroxamate siderophores produced by <i>Streptomyces acidiscabies</i> E13 bind nickel and promote growth in cowpea (<i>Vigna unguiculata</i> L.) under nickel stress. <i>Canadian Journal of Microbiology</i> , 2008, 54, 163-172.	1.7	216
4	Heavy metal resistance mechanisms in actinobacteria for survival in AMD contaminated soils. <i>Chemie Der Erde</i> , 2005, 65, 131-144.	2.0	107
5	Identification of Mn(II)-Oxidizing Bacteria from a Low-pH Contaminated Former Uranium Mine. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5086-5097.	3.1	91
6	Origin of middle rare earth element enrichment in acid mine drainage-impacted areas. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6812-6823.	5.3	89
7	Biogenic precipitation of manganese oxides and enrichment of heavy metals at acidic soil pH. <i>Chemical Geology</i> , 2015, 402, 6-17.	3.3	72
8	Geochemical and isotope characterization of geothermal spring waters in Sri Lanka: Evidence for steeper than expected geothermal gradients. <i>Journal of Hydrology</i> , 2013, 476, 360-369.	5.4	66
9	Rare earth element patterns: A tool for understanding processes in remediation of acid mine drainage. <i>Chemie Der Erde</i> , 2005, 65, 97-114.	2.0	55
10	Microbially assisted phytoremediation approaches for two multi-element contaminated sites. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6845-6858.	5.3	54
11	Biosorption of metal and salt tolerant microbial isolates from a former uranium mining area. Their impact on changes in rare earth element patterns in acid mine drainage. <i>Journal of Basic Microbiology</i> , 2007, 47, 474-484.	3.3	51
12	Heavy metal resistance to the extreme: <i>Streptomyces</i> strains from a former uranium mining area. <i>Chemie Der Erde</i> , 2009, 69, 35-44.	2.0	49
13	Regio- and Chemoselective Enzymatic N-Oxygenation In Vivo, In Vitro, and in Flow. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8016-8018.	13.8	45
14	Influence of microorganisms on biotite dissolution: An experimental approach. <i>Chemie Der Erde</i> , 2009, 69, 45-56.	2.0	42
15	Growth of streptomycetes in soil and their impact on bioremediation. <i>Journal of Hazardous Materials</i> , 2014, 267, 128-135.	12.4	37
16	Phytoremediation using microbially mediated metal accumulation in <i>Sorghum bicolor</i> . <i>Environmental Science and Pollution Research</i> , 2015, 22, 19408-19416.	5.3	34
17	Mapping of macro and micro elements in the leaves of sunflower (<i>Helianthus annuus</i>) by Laser Ablation-ICP-MS. <i>Microchemical Journal</i> , 2013, 110, 783-789.	4.5	32
18	Determination of Rare Earth Elements in Acid Mine Drainage by Inductively Coupled Plasma Mass Spectrometry. <i>Mikrochimica Acta</i> , 2004, 148, 163-170.	5.0	26

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19	Microbes adapted to acid mine drainage as source for strains active in retention of aluminum or uranium. <i>Journal of Geochemical Exploration</i> , 2007, 92, 196-204.	3.2	25
20	Lake deposits of moderate salinity as sensitive indicators of lake level fluctuations: Example from the Upper Rotliegend saline lake (Middle-Late Permian, Northeast Germany). <i>Sedimentary Geology</i> , 2011, 234, 56-69.	2.1	23
21	Heavy metal retention and microbial activities in geochemical barriers formed in glacial sediments subjacent to a former uranium mining leaching heap. <i>Chemie Der Erde</i> , 2009, 69, 21-34.	2.0	22
22	Raman spectroscopic detection of Nickel impact on single <i>Streptomyces</i> cells – possible bioindicators for heavy metal contamination. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1058-1064.	2.5	22
23	Analysis of ZrO ₂ powders by microwave assisted digestion at high pressure and ICP atomic spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1093-1098.	3.0	21
24	Sunflower (<i>Helianthus annuus</i>): phytoextraction capacity for heavy metals on a mining-influenced area in Thuringia, Germany. <i>Environmental Earth Sciences</i> , 2014, 72, 2023.	2.7	20
25	Taking nature into lab: biomineralization by heavy metal-resistant streptomycetes in soil. <i>Biogeosciences</i> , 2013, 10, 3605-3614.	3.3	18
26	Aquifer community structure in dependence of lithostratigraphy in groundwater reservoirs. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19342-19351.	5.3	18
27	Modelling the temporal intensity distribution in laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS) using scanning and drilling mode. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1517-1530.	2.9	14
28	Comparison of Spider Web and Moss Bag Biomonitoring to Detect Sources of Airborne Trace Elements. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	14
29	Modelling the temporal intensity distribution of laser ablation inductively coupled plasma mass spectrometry in single shot mode. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1893-1905.	2.9	12
30	The dendroanalysis of oak trees as a method of biomonitoring past and recent contamination in an area influenced by uranium mining. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19417-19425.	5.3	12
31	Siderophore production by streptomycetes – stability and alteration of ferrihydroxamates in heavy metal-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19376-19383.	5.3	12
32	Modelling of the evaporation behaviour of particulate material for slurry nebulization inductively coupled plasma atomic emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 1905-1922.	2.9	11
33	Fast formation of supergene Mn oxides/hydroxides under acidic conditions in the oxic/anoxic transition zone of a shallow aquifer. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19362-19375.	5.3	11
34	Microbiomes in an acidic rock-water cave system. <i>FEMS Microbiology Letters</i> , 2019, 366, .	1.8	11
35	Rare earth elements as a tool for studying the formation of cemented layers in an area affected by acid mine drainage. <i>Applied Geochemistry</i> , 2015, 54, 100-110.	3.0	10
36	Changes in element availability induced by sterilization in heavy metal contaminated substrates: A comprehensive study. <i>Journal of Hazardous Materials</i> , 2019, 370, 70-79.	12.4	10

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37	Microbial communities in carbonate rocksâ€”from soil via groundwater to rocks. <i>Journal of Basic Microbiology</i> , 2017, 57, 752-761.	3.3	9
38	Effects of the presence of pyrite and carbonate minerals on the kinetics of the uranium release from a natural rock. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 270, 325-333.	1.5	8
39	Rare Earth Elements in Acidic Systems â€” Biotic and Abiotic Impacts. <i>Soil Biology</i> , 2012, , 81-97.	0.8	8
40	Element pattern recognition and classification in sunflowers (<i>Helianthus annuus</i>) grown on contaminated and non-contaminated soil. <i>Microchemical Journal</i> , 2014, 114, 164-174.	4.5	7
41	Adaptation of a Rare Earth Element Pre-concentration Method for Water Enriched in Al, Ca, Fe, and Mg. <i>Mine Water and the Environment</i> , 2017, 36, 363-370.	2.0	7
42	Rare earth element patterns as process indicators at the waterâ€”solid interface of a postâ€”mining area. <i>Applied Geochemistry</i> , 2018, 96, 138-154.	3.0	7
43	Rare earth element sequestration by <i>Aspergillus oryzae</i> biomass. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 3725-3735.	2.2	7
44	Phytoremediation as an Alternative Way for the Treatment of Large, Low Heavy Metal Contaminated Sites: Application at a Former Uranium Mining Area. <i>Advanced Materials Research</i> , 2009, 71-73, 705-708.	0.3	6
45	Metal release and sequestration from black slate mediated by a laccase of <i>Schizophyllum commune</i> . <i>Environmental Science and Pollution Research</i> , 2019, 26, 5-13.	5.3	6
46	Live and death of streptomycetes in soil-what happens to the biomass?. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 665-673.	1.9	5
47	Application of a Rapid Sequential Inductively Coupled Plasma Optical Emission Spectrometric Method for the Analysis of Materials With Linerich Emission Spectra by Different Means of Sample Introduction. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 1387-1390.	3.0	4
48	Study of plasma parameters influencing fractionation in laser ablation-inductively coupled plasma-mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 991-1001.	2.9	4
49	Spectrum stripping in rapid sequential atomic emission spectrometry with the inductively coupled plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 1377-1382.	2.9	3
50	Geo-Bio-Interactions at heavy-metal-contaminated sites. <i>Chemie Der Erde</i> , 2009, 69, 1-3.	2.0	3
51	Flow dynamics of groundwater and soil water in the former heap Gessenhalde at the uranium mining area of Ronneburg: a stable isotope approach. <i>Hydrological Processes</i> , 2011, 25, 861-872.	2.6	3
52	Laboratory Investigations on the Interactions of Soil, Water and Microorganisms with Manganese. <i>Advanced Materials Research</i> , 2007, 20-21, 311-314.	0.3	1
53	Field Scale Phytoremediation Experiments on a Former U Mining Site and Further Processing of the Plant Material. <i>Advanced Materials Research</i> , 0, 825, 516-519.	0.3	1
54	Rare earth elements in Permian salts and brines, Thuringia, Germany. <i>Chemie Der Erde</i> , 2017, 77, 633-636.	2.0	1

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55	Geomicrobial Manganese Redox Reactions in Metal-Contaminated Soil Substrates. Soil Biology, 2012, , 99-112.	0.8	1
56	Characterizing Uranium Solubilization Under Natural Near Oxidic Conditions. , 2006, , 425-435.		1