Michael Komrek

List of Publications by Citations

Source: https://exaly.com/author-pdf/8926106/michael-komarek-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 121
 5,555
 39
 72

 papers
 citations
 h-index
 g-index

 121
 6,361
 7.3
 5.99

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
121	Lead isotopes in environmental sciences: a review. <i>Environment International</i> , 2008 , 34, 562-77	12.9	555
120	Contamination of vineyard soils with fungicides: a review of environmental and toxicological aspects. <i>Environment International</i> , 2010 , 36, 138-151	12.9	463
119	Chemical stabilization of metals and arsenic in contaminated soils using oxidesa review. <i>Environmental Pollution</i> , 2013 , 172, 9-22	9.3	395
118	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. <i>Environment International</i> , 2019 , 124, 521-532	12.9	287
117	Exposure of engineered nanomaterials to plants: Insights into the physiological and biochemical responses-A review. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 236-264	5.4	240
116	Lead and cadmium sorption mechanisms on magnetically modified biochars. <i>Bioresource Technology</i> , 2016 , 203, 318-24	11	189
115	ICP-MS measurements of lead isotopic ratios in soils heavily contaminated by lead smelting: tracing the sources of pollution. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 311-7	4.4	161
114	Geochemical and spectroscopic investigations of Cd and Pb sorption mechanisms on contrasting biochars: engineering implications. <i>Bioresource Technology</i> , 2014 , 171, 442-51	11	120
113	Phytoextraction of Pb and Cd from a contaminated agricultural soil using different EDTA application regimes: Laboratory versus field scale measures of efficiency. <i>Geoderma</i> , 2008 , 144, 446-454	6.7	120
112	Root water transport of Helianthus annuus L. under iron oxide nanoparticle exposure. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 1732-41	5.1	111
111	The use of maize and poplar in chelant-enhanced phytoextraction of lead from contaminated agricultural soils. <i>Chemosphere</i> , 2007 , 67, 640-51	8.4	110
110	Adsorption of copper, cadmium, lead and zinc onto a synthetic manganese oxide. <i>Journal of Colloid and Interface Science</i> , 2013 , 399, 99-106	9.3	103
109	Copper removal from aqueous solution using biochar: Effect of chemical activation. <i>Arabian Journal of Chemistry</i> , 2014 , 7, 43-52	5.9	96
108	Competitive Adsorption of Cd(II), Cr(VI), and Pb(II) onto Nanomaghemite: A Spectroscopic and Modeling Approach. <i>Environmental Science & Environmental Science & Environmental</i>	10.3	87
107	Copper contamination of vineyard soils from small wine producers: A case study from the Czech Republic. <i>Geoderma</i> , 2008 , 147, 16-22	6.7	84
106	Geochemical position of Pb, Zn and Cd in soils near the Olkusz mine/smelter, South Poland: effects of land use, type of contamination and distance from pollution source. <i>Environmental Monitoring and Assessment</i> , 2012 , 184, 2517-36	3.1	74
105	Metal/metalloid contamination and isotopic composition of lead in edible mushrooms and forest soils originating from a smelting area. <i>Environment International</i> , 2007 , 33, 677-84	12.9	74

(2009-2018)

104	Effect of nano zero-valent iron application on As, Cd, Pb, and Zn availability in the rhizosphere of metal(loid) contaminated soils. <i>Chemosphere</i> , 2018 , 200, 217-226	8.4	67	
103	Biochar application to metal-contaminated soil: Evaluating of Cd, Cu, Pb and Zn sorption behavior using single- and multi-element sorption experiment. <i>Plant, Soil and Environment</i> , 2011 , 57, 372-380	2.2	67	
102	The use of poplar during a two-year induced phytoextraction of metals from contaminated agricultural soils. <i>Environmental Pollution</i> , 2008 , 151, 27-38	9.3	63	
101	Cadmium isotope fractionation within the soil profile complicates source identification in relation to PbIn mining and smelting processes. <i>Chemical Geology</i> , 2015 , 405, 1-9	4.2	59	
100	Metal(loid)s behaviour in soils amended with nano zero-valent iron as a function of pH and time. <i>Journal of Environmental Management</i> , 2017 , 186, 268-276	7.9	57	
99	Mobility of lead, zinc and cadmium in alluvial soils heavily polluted by smelting industry. <i>Plant, Soil and Environment</i> , 2011 , 51, 316-321	2.2	56	
98	Evaluating the potential of three Fe- and Mn-(nano)oxides for the stabilization of Cd, Cu and Pb in contaminated soils. <i>Journal of Environmental Management</i> , 2014 , 146, 226-234	7.9	55	
97	Effect of illite and birnessite on thallium retention and bioavailability in contaminated soils. <i>Journal of Hazardous Materials</i> , 2011 , 191, 170-6	12.8	52	
96	Geochemical position of thallium in soils from a smelter-impacted area. <i>Journal of Geochemical Exploration</i> , 2013 , 124, 176-182	3.8	51	
95	Lithogenic thallium behavior in soils with different land use. <i>Journal of Geochemical Exploration</i> , 2009 , 102, 7-12	3.8	50	
94	Effects of Nano-maghemite on Trace Element Accumulation and Drought Response of Helianthus annuus L. in a Contaminated Mine Soil. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	49	
93	In situ chemical stabilization of trace element-contaminated soil Field demonstrations and barriers to transition from laboratory to the field A review. <i>Applied Geochemistry</i> , 2019 , 100, 335-351	3.5	48	
92	The pH-dependent long-term stability of an amorphous manganese oxide in smelter-polluted soils: implication for chemical stabilization of metals and metalloids. <i>Journal of Hazardous Materials</i> , 2015 , 286, 386-94	12.8	47	
91	Interactions of nano-oxides with low-molecular-weight organic acids in a contaminated soil. <i>Journal of Hazardous Materials</i> , 2015 , 293, 7-14	12.8	46	
90	Potential and drawbacks of EDDS-enhanced phytoextraction of copper from contaminated soils. <i>Environmental Pollution</i> , 2010 , 158, 2428-38	9.3	46	
89	Evaluating the suitability of different environmental samples for tracing atmospheric pollution in industrial areas. <i>Environmental Pollution</i> , 2017 , 220, 286-297	9.3	42	
88	AMOchar: Amorphous manganese oxide coating of biochar improves its efficiency at removing metal(loid)s from aqueous solutions. <i>Science of the Total Environment</i> , 2018 , 625, 71-78	10.2	41	
87	Retention of copper originating from different fungicides in contrasting soil types. <i>Journal of Hazardous Materials</i> , 2009 , 166, 1395-402	12.8	41	

86	Thallium dynamics in contrasting light sandy soilssoil vulnerability assessment to anthropogenic contamination. <i>Journal of Hazardous Materials</i> , 2010 , 173, 717-23	12.8	40
85	Thallium uptake by white mustard (Sinapis alba L.) grown on moderately contaminated soilsagro-environmental implications. <i>Journal of Hazardous Materials</i> , 2010 , 182, 303-8	12.8	39
84	Evaluation of extraction/digestion techniques used to determine lead isotopic composition in forest soils. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1109-15	4.4	39
83	Chromate adsorption on selected soil minerals: Surface complexation modeling coupled with spectroscopic investigation. <i>Journal of Hazardous Materials</i> , 2016 , 318, 433-442	12.8	39
82	Lead contamination of an agricultural soil in the vicinity of a shooting range. <i>Environmental Monitoring and Assessment</i> , 2010 , 162, 37-46	3.1	36
81	Metal(loid) distribution and Pb isotopic signatures in the urban environment of Athens, Greece. <i>Environmental Pollution</i> , 2016 , 213, 420-431	9.3	34
80	Sorption mechanisms of arsenate on Mg-Fe layered double hydroxides: A combination of adsorption modeling and solid state analysis. <i>Chemosphere</i> , 2017 , 168, 539-548	8.4	34
79	Interactions of EDDS with Fe- and Al-(hydr)oxides. <i>Chemosphere</i> , 2009 , 77, 87-93	8.4	32
78	Thallium contamination of soils/vegetation as affected by sphalerite weathering: a model rhizospheric experiment. <i>Journal of Hazardous Materials</i> , 2015 , 283, 148-56	12.8	31
77	Highly effective Zn(II) and Pb(II) removal from aqueous solutions using Mg-Fe layered double hydroxides: Comprehensive adsorption modeling coupled with solid state analyses. <i>Journal of Cleaner Production</i> , 2018 , 171, 944-953	10.3	31
76	Revisiting models of Cd, Cu, Pb and Zn adsorption onto Fe(III) oxides. <i>Chemical Geology</i> , 2018 , 493, 189-	1.49.88	31
75	Effect of low-molecular-weight organic acids on the leaching of thallium and accompanying cations from soil [A model rhizosphere solution approach. <i>Journal of Geochemical Exploration</i> , 2012 , 112, 212-2	1 3 .8	30
74	Assessment of the BCR sequential extraction procedure for thallium fractionation using synthetic mineral mixtures. <i>Journal of Hazardous Materials</i> , 2010 , 176, 913-8	12.8	29
73	Assessment of biochar and/or nano zero-valent iron for the stabilisation of Zn, Pb and Cd: A temporal study of solid phase geochemistry under changing soil conditions. <i>Chemosphere</i> , 2020 , 242, 125248	8.4	29
72	Metal(loid) and isotopic tracing of Pb in soils, road and house dusts from the industrial area of Volos (central Greece). <i>Science of the Total Environment</i> , 2020 , 725, 138300	10.2	27
71	Comparative effects of nanoscale zero-valent iron (nZVI) and Fe2O3 nanoparticles on root hydraulic conductivity of Solanum lycopersicum L <i>Environmental and Experimental Botany</i> , 2016 , 131, 128-136	5.9	27
70	Brewers draff as a new low-cost sorbent for chromium (VI): comparison with other biosorbents. Journal of Colloid and Interface Science, 2013 , 396, 227-33	9.3	27
69	Complexation between the fungicide tebuconazole and copper(II) probed by electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 1037-42	2.2	27

68	Tebuconazole Sorption in Contrasting Soil Types. Soil and Sediment Contamination, 2013, 22, 404-414	3.2	25
67	Isotope fractionation and spectroscopic analysis as an evidence of Cr(VI) reduction during biosorption. <i>Chemosphere</i> , 2014 , 95, 402-7	8.4	25
66	Effect of ozonation on polychlorinated biphenyl degradation and on soil physico-chemical properties. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1202-7	12.8	25
65	Bioaccumulation of thallium in a neutral soil as affected by solid-phase association. <i>Journal of Geochemical Exploration</i> , 2015 , 159, 208-212	3.8	24
64	Copper determination using ICP-MS with hexapole collision cell. <i>Chemical Papers</i> , 2009 , 63,	1.9	24
63	Maghemite nanoparticles and ferrous sulfate for the stimulation of iron plaque formation and arsenic immobilization in Phragmites australis. <i>Environmental Pollution</i> , 2016 , 219, 296-304	9.3	23
62	Nano Zero-Valent Iron Mediated Metal(loid) Uptake and Translocation by Arbuscular Mycorrhizal Symbioses. <i>Environmental Science & Environmental & Envi</i>	10.3	23
61	Chemically enhanced phytoextraction of risk elements from a contaminated agricultural soil using Zea mays and Triticum aestivum: performance and metal mobilization over a three year period. <i>International Journal of Phytoremediation</i> , 2012 , 14, 754-71	3.9	23
60	Unleaded gasoline as a significant source of Pb emissions in the Subarctic. <i>Chemosphere</i> , 2018 , 193, 230	0-8346	23
59	Stable isotope tracing of Ni and Cu pollution in North-East Norway: Potentials and drawbacks. <i>Environmental Pollution</i> , 2017 , 228, 149-157	9.3	22
58	Phase-dependent phytoavailability of thalliuma synthetic soil experiment. <i>Journal of Hazardous Materials</i> , 2013 , 250-251, 265-71	12.8	22
57	Sorption of tebuconazole onto selected soil minerals and humic acids. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2012 , 47, 336-42	2.2	22
56	Selected Fe and Mn (nano)oxides as perspective amendments for the stabilization of As in contaminated soils. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 10841-10854	5.1	22
55	Distribution of thallium and accompanying metals in tree rings of Scots pine (Pinus sylvestris L.) from a smelter-affected area. <i>Journal of Geochemical Exploration</i> , 2011 , 108, 73-80	3.8	21
54	Vanadium determination in chloride matrices using ICP-MS: finding the optimum collision/reaction cell parameters for suppressing polyatomic interferences. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 962-70	4.4	21
53	Nano zero-valent iron aging interacts with the soil microbial community: a microcosm study. <i>Environmental Science: Nano</i> , 2019 , 6, 1189-1206	7.1	20
52	Stability and stabilizing efficiency of Mg-Fe layered double hydroxides and mixed oxides in aqueous solutions and soils with elevated As(V), Pb(II) and Zn(II) contents. <i>Science of the Total Environment</i> , 2019 , 648, 1511-1519	10.2	19
51	The role of Fe- and Mn-oxides during EDTA-enhanced phytoextraction of heavy metals. <i>Plant, Soil and Environment</i> , 2008 , 53, 216-224	2.2	18

50	Characterization of Fe-Mn concentric nodules from Luvisol irrigated by mine water in a semi-arid agricultural area. <i>Geoderma</i> , 2017 , 299, 32-42	6.7	17
49	Interactions of two novel stabilizing amendments with sunflower plants grown in a contaminated soil. <i>Chemosphere</i> , 2017 , 186, 374-380	8.4	17
48	Biosorbent encapsulation in calcium alginate: Effects of process variables on Cr(VI) removal from solutions. <i>International Journal of Biological Macromolecules</i> , 2015 , 80, 260-70	7.9	16
47	Stability of a novel synthetic amorphous manganese oxide in contrasting soils. <i>Geoderma</i> , 2014 , 214-215, 2-9	6.7	16
46	Trace elements and nutrients adsorption onto nano-maghemite in a contaminated-soil solution: A geochemical/statistical approach. <i>Journal of Hazardous Materials</i> , 2014 , 276, 271-7	12.8	16
45	pK a Constant Determination of Two Triazole Pesticides: Tebuconazole and Penconazole. <i>Journal of Solution Chemistry</i> , 2013 , 42, 1075-1082	1.8	16
44	Engineered Nanomaterials for Phytoremediation of Metal/Metalloid-Contaminated Soils: Implications for Plant Physiology 2017 , 369-403		14
43	Antimonate adsorption onto Mg-Fe layered double hydroxides in aqueous solutions at different pH values: Coupling surface complexation modeling with solid-state analyses. <i>Chemosphere</i> , 2019 , 229, 236	5- 2 46	14
42	Synthesis of modified amorphous manganese oxide using low-cost sugars and biochars: Material characterization and metal(loid) sorption properties. <i>Science of the Total Environment</i> , 2019 , 670, 1159-	1 163	14
41	Sorption behavior of Cd, Cu, Pb, and Zn and their interactions in phytoremediated soil. <i>International Journal of Phytoremediation</i> , 2012 , 14, 806-19	3.9	14
40	Effects of flooding on lead and cadmium speciation in sediments from a drinking water reservoir. Environmental Monitoring and Assessment, 2006 , 118, 113-23	3.1	14
39	Cadmium Isotope Fractionation during Complexation with Humic Acid. <i>Environmental Science & Technology</i> , 2021 , 55, 7430-7444	10.3	14
38	Health risk assessment of metal(loid)s in soil and particulate matter from industrialized regions: A multidisciplinary approach. <i>Environmental Pollution</i> , 2020 , 260, 114057	9.3	12
37	Modelling of Cd, Cu, Pb and Zn transport in metal contaminated soil and their uptake by willow (Salix Ismithiana) using HYDRUS-2D program. <i>Plant and Soil</i> , 2013 , 366, 433-451	4.2	12
36	Stability, transformations and stabilizing potential of an amorphous manganese oxide and its surface-modified form in contaminated soils. <i>Applied Geochemistry</i> , 2016 , 75, 125-136	3.5	12
35	The role of soil components in synthetic mixtures during the adsorption and speciation changes of Cr(VI): Conjunction of the modeling approach with spectroscopic and isotopic investigations. <i>Environment International</i> , 2019 , 127, 848-857	12.9	11
34	A critical evaluation of the 0.05 M EDTA extraction of Pb from forest soils. <i>International Journal of Environmental Analytical Chemistry</i> , 2008 , 88, 385-396	1.8	11
33	Tracing the sources of bioaccessible metal(loid)s in urban environments: A multidisciplinary approach. <i>Science of the Total Environment</i> , 2021 , 771, 144827	10.2	11

32	Study of interactions between relevant organic acids and aluminium in model solutions using HPLC and IC. <i>Soil and Water Research</i> , 2016 , 10, 172-180	2.5	10
31	50years of different landscape management influencing retention of metals in soils. <i>Journal of Geochemical Exploration</i> , 2012 , 115, 59-68	3.8	10
30	Incubation of air-pollution-control residues from secondary Pb smelter in deciduous and coniferous organic soil horizons: leachability of lead, cadmium and zinc. <i>Journal of Hazardous Materials</i> , 2012 , 209-210, 40-7	12.8	9
29	The influence of copper on tebuconazole sorption onto soils, humic substances, and ferrihydrite. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 4205-15	5.1	9
28	Seasonal fluctuations of Zn, Pb, As and Cd contents in the biomass of selected grass species growing on contaminated soils: Implications for in situ phytostabilization. <i>Science of the Total Environment</i> , 2020 , 703, 134710	10.2	9
27	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. <i>Chemical Engineering Journal</i> , 2022 , 428, 131967	14.7	8
26	Evolution of bioavailable copper and major soil cations in contaminated soils treated with ethylenediaminedisuccinate: a two-year experiment. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011 , 86, 525-30	2.7	7
25	Bioavailability of lead and cadmium in soils artificially contaminated with smelter fly ash. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009 , 83, 286-90	2.7	6
24	Contaminated soils of different natural pH and industrial origin: The role of (nano) iron- and manganese-based amendments in As, Sb, Pb, and Zn leachability. <i>Environmental Pollution</i> , 2021 , 285, 117268	9.3	6
23	Nutrient mobilization and nutrient contents of Zea mays in response to EDTA additions to heavy-metal-contaminated agricultural soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2009 , 172, 520-53	2 7 ·3	5
22	Metal isotope complexation with environmentally relevant surfaces: Opening the isotope fractionation black box. <i>Critical Reviews in Environmental Science and Technology</i> ,1-31	11.1	5
21	Lead migration in smelter-impacted deciduous and coniferous organic soil horizons based on a long-term in-situ implantation and laboratory column experiments. <i>Applied Geochemistry</i> , 2014 , 48, 168	-∮ <i>7</i> 5	4
20	Suitability of selected bioindicators of atmospheric pollution in the industrialised region of Ostrava, Upper Silesia, Czech Republic. <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 478	3.1	4
19	The role of chloride salts in chemically enhanced phytoextraction of heavy metals from a contaminated agricultural soil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2007 , 78, 176-80) ^{2.7}	4
18	Phytoextraction of Metals: Modeling Root Metal Uptake and Associated Processes 2015, 69-83		3
17	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128479	12.8	3
16	Biochar and Its Composites for Metal(loid) Removal From Aqueous Solutions 2019, 113-141		3
15	Response to Comment on "Competitive Adsorption of Cd(II), Cr(VI), and Pb(II) onto Nanomaghemite: A Spectroscopic and Modeling Approach". <i>Environmental Science & Environmental Science & Environmenta</i>	10.3	2

14	Multiple pollution sources unravelled by environmental forensics techniques and multivariate statistics. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127413	12.8	2
13	Nanoscale Zero-Valent Iron Has Minimum Toxicological Risk on the Germination and Early Growth of Two Grass Species with Potential for Phytostabilization. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
12	MONITORING OF MOBILIZATION AND UPTAKE OF NUTRIENTS IN RESPONSE TO EDTA ADDITIONS TO A CONTAMINATED AGRICULTURAL SOIL. <i>Environmental Engineering and Management Journal</i> , 2017 , 16, 2475-2483	0.6	1
11	Investigation of Fe isotope systematics for the complete sequence of natural and metallurgical processes of Ni lateritic ores: Implications for environmental source tracing. <i>Applied Geochemistry</i> , 2021 , 127, 104930	3.5	1
10	Investigation of zinc binding properties onto natural and synthetic zeolites: Implications for soil remediation. <i>Microporous and Mesoporous Materials</i> , 2021 , 317, 111022	5.3	1
9	Cadmium isotope systematics for source apportionment in an urbanEural region. <i>Applied Geochemistry</i> , 2022 , 137, 105196	3.5	O
8	Mg-Fe LDH-coated biochars for metal(loid) removal: Surface complexation modeling and structural change investigations. <i>Chemical Engineering Journal</i> , 2022 , 432, 134360	14.7	O
7	Innovative in situ remediation of mine waters using a layered double hydroxide-biochar composite. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127136	12.8	O
6	Soil moisture influences performance of selected stabilizing amendments in soil remediation. <i>Geoderma</i> , 2021 , 402, 115307	6.7	0
5	Metal sorption onto soils loaded with urban particulate matter. <i>Chemie Der Erde</i> , 2015 , 75, 29-33	4.3	
4	Roles of Metal-(Hydr)oxides in Chelant-Enhanced (Phyto)extraction 2012 , 198-211		
3	New low cost sorbents for Cr(VI) (batch and column experiments. E3S Web of Conferences, 2013, 1, 250	06 .5	
2	Biosorption of Cr(VI) from natural groundwater and the effect of DOC-rich treated water on Cr dissolving from contaminated soil. <i>Soil and Water Research</i> , 2016 , 10, 236-243	2.5	
1	Challenges in Reducing Phytotoxicity of Metals in Soils Affected by Non-Ferrous Smelter Operations. <i>Geography, Environment, Sustainability</i> , 2022 , 15, 112-121	1	