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List of Publications by Year in descending order

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58
papers

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Mapping of lead, magnesium and copper accumulation in plant tissues by laser-induced breakdown spectroscopy and laser-ablation inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 67-73.	2.9	133
2	Cold deep subduction recorded by remnants of a Paleoproterozoic carbonated slab. <i>Nature Communications</i> , 2018, 9, 2790.	12.8	75
3	Investigation of heavy-metal accumulation in selected plant samples using laser induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 917-922.	2.3	71
4	Utilization of laser induced breakdown spectroscopy for investigation of the metal accumulation in vegetal tissues. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1597-1605.	2.9	62
5	Assessment of magmatic vs. metasomatic processes in rare-metal granites: A case study of the Čánovec/Zinnwald Sn-W-Li deposit, Central Europe. <i>Lithos</i> , 2017, 292-293, 198-217.	1.4	61
6	Mapping of different structures on large area of granite sample using laser-ablation based analytical techniques, an exploratory study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1139-1144.	2.9	60
7	Assessment of phytotoxicity, environmental and health risks of historical urban park soils. <i>Chemosphere</i> , 2019, 220, 678-686.	8.2	53
8	Sunflower Plants as Bioindicators of Environmental Pollution with Lead (II) Ions. <i>Sensors</i> , 2009, 9, 5040-5058.	3.8	52
9	Human health and ecological risk assessment of trace elements in urban soils of 101 cities in China: A meta-analysis. <i>Chemosphere</i> , 2021, 267, 129215.	8.2	46
10	Determination of Plant Thiols by Liquid Chromatography Coupled with Coulometric and Amperometric Detection in Lettuce Treated by Lead(II) Ions. <i>Electroanalysis</i> , 2010, 22, 1248-1259.	2.9	42
11	Utilization of laser-assisted analytical methods for monitoring of lead and nutrition elements distribution in fresh and dried <i>Capsicum annum</i> l. leaves. <i>Microscopy Research and Technique</i> , 2011, 74, 845-852.	2.2	42
12	DISTRIBUTION AND EVOLUTION OF ZIRCONIUM MINERALIZATION IN PERALKALINE GRANITES AND ASSOCIATED PEGMATITES OF THE KHAN BOGD COMPLEX, SOUTHERN MONGOLIA. <i>Canadian Mineralogist</i> , 2011, 49, 947-965.	1.0	42
13	The use of zinc and iron emission lines in the depth profile analysis of zinc-coated steel. <i>Applied Surface Science</i> , 2007, 253, 3834-3842.	6.1	40
14	Correlation of acoustic and optical emission signals produced at 1064 and 532nm laser-induced breakdown spectroscopy (LIBS) of glazed wall tiles. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 74-78.	2.9	40
15	Multielemental analysis of prehistoric animal teeth by laser-induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry. <i>Applied Optics</i> , 2010, 49, C191.	2.1	40
16	Diversity of lithium mica compositions in mineralized granite-greisen system: Čánovec Li-Sn-W deposit, Erzgebirge. <i>Ore Geology Reviews</i> , 2019, 106, 12-27.	2.7	40
17	Lithium and trace-element concentrations in trioctahedral micas from granites of different geochemical types measured via laser ablation ICP-MS. <i>Mineralogical Magazine</i> , 2017, 81, 15-33.	1.4	33
18	The impact of tourism on extremely visited volcanic island: Link between environmental pollution and transportation modes. <i>Chemosphere</i> , 2020, 249, 126118.	8.2	30

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19	Qualitative detection of Mg content in a leaf of <i>Hedera helix</i> by using X-ray radiation from a laser plasma source. <i>Microscopy Research and Technique</i> , 2008, 71, 459-468.	2.2	29
20	Laser ablation methods for analysis of urinary calculi: Comparison study based on calibration pellets. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 81, 43-49.	2.9	29
21	Elemental mapping in fossil tooth root section of <i>Ursus arctos</i> by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Talanta</i> , 2013, 105, 235-243.	5.5	28
22	Compositional Evolution of Zoned Tourmaline Crystals from Pockets in Common Pegmatites of the Moldanubian Zone, Czech Republic. <i>Canadian Mineralogist</i> , 2012, 50, 895-912.	1.0	27
23	Distributions of Y + REE and Sc in tourmaline and their implications for the melt evolution; examples from NYF pegmatites of the Třebíč-Pluton, Moldanubian Zone, Czech Republic. <i>Journal of Geosciences (Czech Republic)</i> , 2013, , 113-131.	0.6	27
24	Garnet as a major carrier of the Y and REE in the granitic rocks: An example from the layered anorogenic granite in the Brno Batholith, Czech Republic. <i>American Mineralogist</i> , 2014, 99, 1922-1941.	1.9	27
25	Investigation of the microstructure and mineralogical composition of urinary calculi fragments by synchrotron radiation X-ray microtomography: a feasibility study. <i>Urological Research</i> , 2011, 39, 259-267.	1.5	26
26	Sc- and REE-rich tourmaline replaced by Sc-rich REE-bearing epidote-group mineral from the mixed (NYF+LCT) Kracovice pegmatite (Moldanubian Zone, Czech Republic). <i>American Mineralogist</i> , 2015, 100, 1434-1451.	1.9	26
27	Investigation of the osteitis deformans phases in snake vertebrae by double-pulse laser-induced breakdown spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1095-1107.	3.7	22
28	The transition from granite to banded aplite-pegmatite sheet complexes: An example from Megilggar Rocks, Tregonning topaz granite, Cornwall. <i>Lithos</i> , 2018, 302-303, 370-388.	1.4	22
29	Beryl composition and evolution trends: an example from granitic pegmatites of the beryl-columbite subtype, Western Carpathians, Slovakia. <i>Journal of Geosciences (Czech Republic)</i> , 2012, , 69-80.	0.6	20
30	Darrellhenryite, Na(LiAl ₂)Al ₆ (BO ₃) ₃ Si ₆ O ₁₈ (OH) ₃ O, a new mineral from the tourmaline supergroup. <i>American Mineralogist</i> , 2013, 98, 1886-1892.	1.9	20
31	Phlogopite/matrix, clinopyroxene/matrix and clinopyroxene/phlogopite trace-element partitioning in a calc-alkaline lamprophyre: new constrains from the Káňavice minette dyke (Bohemian Massif). <i>Journal of Geosciences (Czech Republic)</i> , 2014, , 87-96.	0.6	19
32	Vránaite, ideally Al ₁₆ B ₄ Si ₄ O ₃₈ , a new mineral related to boralsilite, Al ₁₆ B ₆ Si ₂ O ₃₇ , from the Manjaka pegmatite, Sahatany Valley, Madagascar. <i>American Mineralogist</i> , 2016, 101, 2108-2117.	1.9	18
33	Environmental Impact Assessment of Potentially Toxic Elements in Soils Near the Runway at the International Airport in Central Europe. <i>Sustainability</i> , 2020, 12, 7224.	3.2	17
34	The role of carbonate-fluoride melt immiscibility in shallow REE deposit evolution. <i>Geoscience Frontiers</i> , 2019, 10, 527-537.	8.4	16
35	Redefinition of thalénite-(Y) and discreditation of fluorthalénite-(Y): A re-investigation of type material from the Åsterby pegmatite, Dalarna, Sweden, and from additional localities. <i>Mineralogical Magazine</i> , 2015, 79, 965-983.	1.4	15
36	Gadolinite-(Nd), a new member of the gadolinite supergroup from Fe-REE deposits of Bastnäs-type, Sweden. <i>Mineralogical Magazine</i> , 2018, 82, S133-S145.	1.4	15

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37	Polluted brownfield site converted into a public urban park: A place providing ecosystem services or a hidden health threat?. <i>Journal of Environmental Management</i> , 2021, 291, 112669.	7.8	14
38	Compositional evolution of grossular garnet from leucotonalitic pegmatite at Ruda nad Moravou, Czech Republic; a complex EMPA, LA-ICP-MS, IR and CL study. <i>Mineralogy and Petrology</i> , 2013, 107, 311-326.	1.1	13
39	2D elemental mapping of sections of human kidney stones using laser ablation inductively-coupled plasma-mass spectrometry: Possibilities and limitations. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 105-115.	2.9	13
40	IRON+MAGNESIUM-BEARING BERYL FROM GRANITIC PEGMATITES: AN EMPA, LA-ICP-MS, MÄ-SSBAUER SPECTROSCOPY, AND POWDER XRD STUDY. <i>Canadian Mineralogist</i> , 2014, 52, 271-284.	1.0	11
41	Study of metal accumulation in tapeworm section using laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS). <i>Microchemical Journal</i> , 2017, 133, 380-390.	4.5	10
42	Provenance study of volcanic glass using 266â€“1064 nm orthogonal double pulse laser induced breakdown spectroscopy. <i>Chemical Papers</i> , 2013, 67, .	2.2	8
43	Two Paragenetic Types of Cookeite From the DolnÄ-Bory-HatÄ Pegmatites, Moldanubian Zone, Czech Republic: Proximal and Distal Alteration Products of Li-Bearing Sekaninaite. <i>Canadian Mineralogist</i> , 2015, 53, 1035-1048.	1.0	8
44	Manganoan Na,Be,Li-rich Sekaninaite From Mirolitic Pegmatite At Zimnik, Strzegom-SobÄtka Massif, Sudetes, Poland. <i>Canadian Mineralogist</i> , 2016, 54, 971-987.	1.0	8
45	Variability of trace element distribution in <i>Noccaea</i> spp., <i>Arabidopsis</i> spp., and <i>Thlaspi arvense</i> leaves: the role of plant species and element accumulation ability. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 181.	2.7	8
46	Implementation of an autofocus algorithm based on searching the best in-focus image into a table-top laser-induced breakdown spectroscopy setup. <i>Optical Engineering</i> , 2009, 48, 103604.	1.0	7
47	MINERAL ASSEMBLAGES, COMPOSITIONAL VARIATION, AND CRYSTAL STRUCTURE OF FERUVITIC TOURMALINE FROM A CONTAMINATED ANATECTIC PEGMATITE AT MIROÁOV NEAR STRÄ½EK, MOLDANUBIAN ZONE, CZECH REPUBLIC. <i>Canadian Mineralogist</i> , 2014, 52, 285-301.	1.0	7
48	BORALSILITE AND Li,Be-BEARING â€œBORON MULLITEâ€•Al ₈ B ₂ Si ₂ O ₁₉ , BREAKDOWN PRODUCTS OF SPODUMENE FROM THE MANJAKA PEGMATITE, SAHATANY VALLEY, MADAGASCAR. <i>Canadian Mineralogist</i> , 2015, 53, 357-374.	1.0	7
49	Biochar-Assisted Phytostabilization for Potentially Toxic Element Immobilization. <i>Sustainability</i> , 2022, 14, 445.	3.2	7
50	GEOCHEMISTRY AND SECONDARY ALTERATIONS OF MICROLITE FROM ELUVIAL DEPOSITS IN THE NUMBI MINING AREA, SOUTH KIVU, DEMOCRATIC REPUBLIC OF THE CONGO. <i>Canadian Mineralogist</i> , 2018, 56, 203-220.	1.0	6
51	Scandium distribution in the world-class Li-Sn-W CÄnovec greisen-type deposit: Result of a complex magmatic to hydrothermal evolution, implications for scandium valorization. <i>Ore Geology Reviews</i> , 2021, 139, 104433.	2.7	6
52	Preparation and testing of phosphate, oxalate and uric acid matrix-matched standards for accurate quantification of 2D elemental distribution in kidney stone sections using 213 nm nanosecond laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1356-1368.	3.0	5
53	Rock textures and mineral zoning â€“ A clue to understanding rare-metal granite evolution: Argemela stock, Central-Eastern Portugal. <i>Lithos</i> , 2022, 410-411, 106562.	1.4	5
54	Secondary beryl in cordierite/sekaninaite pseudomorphs from granitic pegmatites â€“ A monitor of elevated content of beryllium in the precursor. <i>Canadian Mineralogist</i> , 2020, 58, 785-802.	1.0	3

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55	Milarite-group minerals from the NYF pegmatite Velká škála, Pásek district, Czech Republic: sole carriers of Be from the magmatic to hydrothermal stage. <i>European Journal of Mineralogy</i> , 2017, 29, 755-766.	1.3	2
56	Can rail transport-related contamination affect railway vegetation? A case study of a busy railway corridor in Poland. <i>Chemosphere</i> , 2022, 293, 133521.	8.2	2
57	Laser microsampling and multivariate methods in provenance studies of obsidian artefacts. <i>Chemical Papers</i> , 2015, 69, .	2.2	1
58	First occurrence of Mn-dominant cordierite-group mineral: electron microprobe and laser ablation ICPMS study. <i>Canadian Mineralogist</i> , 2019, 57, 807-810.	1.0	1