

# Frank Melcher

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,437  
citations

516710

16  
h-index

501196

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace and minor elements in sphalerite: A LA-ICPMS study. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4761-4791.	3.9	581
2	Tantalum (niobium-tin) mineralisation in African pegmatites and rare metal granites: Constraints from Ta-Nb oxide mineralogy, geochemistry and U-Pb geochronology. <i>Ore Geology Reviews</i> , 2015, 64, 667-719.	2.7	187
3	Late Neoproterozoic overprinting of the cassiterite and columbite-tantalite bearing pegmatites of the Gatumba area, Rwanda (Central Africa). <i>Journal of African Earth Sciences</i> , 2011, 61, 10-26.	2.0	90
4	Magmatic vs. hydrothermal origins for zircon associated with tantalum mineralization in the Tanco pegmatite, Manitoba, Canada. <i>American Mineralogist</i> , 2009, 94, 439-450.	1.9	67
5	Mineralogical and chemical evolution of tantalum (niobium-tin) mineralisation in pegmatites and granites. Part 2: Worldwide examples (excluding Africa) and an overview of global metallogenetic patterns. <i>Ore Geology Reviews</i> , 2017, 89, 946-987.	2.7	60
6	The effect of disequilibrium crystallization on Nb-Ta fractionation in pegmatites: Constraints from crystallization experiments of tantalite-tapiolite. <i>American Mineralogist</i> , 2018, 103, 1401-1416.	1.9	48
7	The Kenticha rare-element pegmatite, Ethiopia: internal differentiation, U-Pb age and Ta mineralization. <i>Mineralium Deposita</i> , 2009, 44, 723-750.	4.1	47
8	Sulfidic and non-sulfidic indium mineralization of the epithermal Au-Cu-Zn-Pb-Ag deposit San Roque (Provincia Rio Negro, SE Argentina) with special reference to the indium window in zinc sulfide. <i>Ore Geology Reviews</i> , 2013, 51, 103-128.	2.7	46
9	Speeding Up the Analytical Workflow for Coltan Fingerprinting by an Integrated Mineral Liberation Analysis/LA-ICPMS Approach. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 431-448.	3.1	44
10	The occurrence, origin, and fate of water in chromitites in ophiolites. <i>American Mineralogist</i> , 2020, 105, 894-903.	1.9	31
11	Distribution of platinum-group elements in pristine and near-surface oxidized Platreef ore and the variation along strike, northern Bushveld Complex, South Africa. <i>Mineralium Deposita</i> , 2019, 54, 885-912.	4.1	29
12	Anatectic Granitic Pegmatites from the Eastern Alps: A Case of Variable Rare-Metal Enrichment During High-Grade Regional Metamorphism I: Mineral Assemblages, Geochemical Characteristics, and Emplacement Ages. <i>Canadian Mineralogist</i> , 2018, 56, 555-602.	1.0	27
13	Development of a Matrix-Matched Sphalerite Reference Material ( $\text{MUL-Zn}$ ) for Calibration of <i>In Situ</i> Trace Element Measurements by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 263-272.	3.1	26
14	Petrography, geochemistry and U-Pb zircon age of the Matongo carbonatite Massif (Burundi): Implication for the Neoproterozoic geodynamic evolution of Central Africa. <i>Journal of African Earth Sciences</i> , 2014, 100, 656-674.	2.0	21
15	The hydrothermal Waterberg platinum deposit, Mookgophong (Naboomspruit), South Africa. Part 1: Geochemistry and ore mineralogy. <i>Mineralogical Magazine</i> , 2018, 82, 725-749.	1.4	17
16	Geochemical Fingerprinting of Coltan Ores by Machine Learning on Uneven Datasets. <i>Natural Resources Research</i> , 2011, 20, 177-191.	4.7	16
17	Mineralogy and mineral chemistry of detrital heavy minerals from the Rhine River in Germany as evidence to their provenance, sedimentary and depositional history: focus on platinum-group minerals and remarks on cassiterite, columbite-group minerals and uraninite. <i>International Journal of Earth Sciences</i> , 2016, 105, 637-657.	1.8	12
18	Die Verfügbbarkeit von Hochtechnologie-Rohstoffen. <i>Chemie in Unserer Zeit</i> , 2013, 47, 32-49.	0.1	11

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19	The hydrothermal Waterberg platinum deposit, Mookgophong (Naboomspruit), South Africa. Part II: Quartz chemistry, fluid inclusions and geochronology. <i>Mineralogical Magazine</i> , 2018, 82, 751-778.	1.4	11
20	Geochronology of metamorphism, deformation and fluid circulation: A comparison between Rb-Sr and Ar-Ar phyllosilicate and U-Pb apatite systematics in the Karagwe-Ankole Belt (Central Africa). <i>Gondwana Research</i> , 2020, 83, 279-297.	6.0	11
21	Potential of Critical High-technology Metals in Eastern Alpine Base Metal Sulfide Ores. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2019, 164, 71-76.	1.0	7
22	Economic Geology of the Eastern and South-eastern European (ESEE) Region. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2017, 162, 238-244.	1.0	5
23	Late orogenic gold mineralization in the western domain of the Karagwe-Ankole Belt (Central Africa): Auriferous quartz veins from the Byumba deposit (Rwanda). <i>Ore Geology Reviews</i> , 2020, 125, 103666.	2.7	5
24	Analytical Proof of Origin for Raw Materials. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 461.	2.0	5
25	Ophiolite derived material as parent rocks for Late Jurassic bauxite: evidence for Tithonian unroofing in the Northern Calcareous Alps (Eastern Alps, Austria). <i>International Journal of Earth Sciences</i> , 2021, 110, 1847-1862.	1.8	5
26	The Haidbach deposit in the Central Tauern Window, Eastern Alps, Austria: a metamorphosed orthomagmatic Ni-Cu-Co-PGE mineralization in the Polymetallic Ore District Venediger Nappe System "Hollersbach Complex". <i>Austrian Journal of Earth Sciences</i> , 2021, 114, 1-26.	0.5	1
27	Walter L. Pohl: <i>Economic Geology, Principles and Practice: Metals, Minerals, Coal and Hydrocarbons - Introduction to Formation and Sustainable Exploitation of Mineral Deposits (2nd revised edition)</i> . <i>Mineralogy and Petrology</i> , 2021, 115, 487-488.	1.1	1