

Markus Waelle

List of Publications by Year in descending order

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59
papers

2,170
citations

159585

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59
all docs

59
docs citations

59
times ranked

2056
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking fluid mixing in epithermal deposits – Insights from in-situ $\delta^{18}\text{O}$ and trace element composition of hydrothermal quartz from the giant Cerro de Pasco polymetallic deposit, Peru. <i>Chemical Geology</i> , 2021, 576, 120277.	3.3	8
2	Multiple rejuvenation episodes of a silicic magma reservoir at the origin of the large diatreme-dome complex and porphyry-type mineralization events at Cerro de Pasco (Peru). <i>Lithos</i> , 2020, 376-377, 105766.	1.4	10
3	Organic matter and metal contents within the Cretaceous rocks of the Slat-Guern Halfaya area, North-Central Tunisia: Implication for ore genesis. <i>Ore Geology Reviews</i> , 2019, 113, 103070.	2.7	6
4	Fluid geochemistry of the Serra Pelada Au-Pd-Pt deposit, Carajás, Brazil: Exceptional metal enrichment caused by deep reaching hydrothermal oxidation. <i>Ore Geology Reviews</i> , 2019, 111, 102991.	2.7	5
5	A treasure chest full of nanogranitoids: an archive to investigate crustal melting in the Bohemian Massif. <i>Geological Society Special Publication</i> , 2019, 478, 13-38.	1.3	16
6	Chemical evolution of ore-forming brines – Basement leaching, metal provenance, and the redox link between barren and ore-bearing hydrothermal veins. A case study from the Schwarzwald mining district in SW-Germany. <i>Chemical Geology</i> , 2019, 506, 126-148.	3.3	26
7	Peri-Laurentian, Pinwarian-age oceanic arc crust preserved in the Grenville Province: Insights from the Escoumins supracrustal belt. <i>Precambrian Research</i> , 2018, 311, 37-64.	2.7	11
8	Multi-reservoir fluid mixing processes in rift-related hydrothermal veins, Schwarzwald, SW-Germany. <i>Journal of Geochemical Exploration</i> , 2018, 186, 158-186.	3.2	40
9	Mineralized breccia clasts: a window into hidden porphyry-type mineralization underlying the epithermal polymetallic deposit of Cerro de Pasco (Peru). <i>Mineralium Deposita</i> , 2018, 53, 919-946.	4.1	26
10	The last subduction-related volcanism in the northern tip of the Arabian-Nubian Shield: A Neoproterozoic arc preceding the terminal collision of East and West Gondwana. <i>Precambrian Research</i> , 2018, 310, 256-277.	2.7	18
11	Cyclic Dilution of Magmatic Metal-Rich Hypersaline Fluids by Magmatic Low-Salinity Fluid: A Major Process Generating the Giant Epithermal Polymetallic Deposit of Cerro de Pasco, Peru. <i>Economic Geology</i> , 2018, 113, 825-856.	3.8	38
12	Fluid Inclusion Studies in Opaque Ore Minerals: I. Trace Element Content and Physical Properties of Ore Minerals Controlling Textural Features in Transmitted Near-Infrared Light Microscopy. <i>Economic Geology</i> , 2018, 113, 1845-1860.	3.8	11
13	Fluid Inclusion Studies in Opaque Ore Minerals: II. A Comparative Study of Syngenetic Synthetic Fluid Inclusions Hosted in Quartz and Opaque Minerals. <i>Economic Geology</i> , 2018, 113, 1861-1883.	3.8	15
14	Hematite Breccia-Hosted Iron Oxide Copper-Gold Deposits Require Magmatic Fluid Components Exposed to Atmospheric Oxidation: Evidence from Prominent Hill, Gawler Craton, South Australia. <i>Economic Geology</i> , 2018, 113, 597-644.	3.8	21
15	Determination of the Mg/Mn ratio in foraminiferal coatings: An approach to correct Mg/Ca temperatures for Mn-rich contaminant phases. <i>Earth and Planetary Science Letters</i> , 2017, 457, 335-347.	4.4	22
16	Nature and evolution of fluids associated with specularite-bearing Fe and Au-PGE (Jacutinga) mineralization during the Brasiliano orogeny in the eastern São Francisco Craton, Minas Gerais, Brazil. <i>Ore Geology Reviews</i> , 2017, 86, 130-153.	2.7	13
17	LA-ICP-MS analysis of fluid inclusions: contamination effects challenging micro-analysis of elements close to their detection limit. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1052-1063.	3.0	31
18	Trace element diffusion and incorporation in quartz during heating experiments. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	31

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19	From a long-lived upper-crustal magma chamber to rapid porphyry copper emplacement: Reading the geochemistry of zircon crystals at Bajo de la Alumbrera (NW Argentina). <i>Earth and Planetary Science Letters</i> , 2016, 450, 120-131.	4.4	137
20	Enargite-luzonite hydrothermal vents in Manus Back-Arc Basin: submarine analogues of high-sulfidation epithermal mineralization. <i>Chemical Geology</i> , 2016, 438, 36-57.	3.3	21
21	Tracing the depositional history of Kalimantan diamonds by zircon provenance and diamond morphology studies. <i>Lithos</i> , 2016, 265, 159-176.	1.4	38
22	Trace elements in fluid inclusions of sediment-hosted gold deposits indicate a magmatic-hydrothermal origin of the Carlin ore trend. <i>Geology</i> , 2016, 44, 1015-1018.	4.4	64
23	A new experimental approach to study fluid-rock equilibria at the slab-mantle interface based on the synthetic fluid inclusion technique. <i>American Mineralogist</i> , 2016, 101, 2199-2209.	1.9	5
24	Microanalysis of Fluid Inclusions in Crustal Hydrothermal Systems using Laser Ablation Methods. <i>Elements</i> , 2016, 12, 323-328.	0.5	35
25	Chemical evolution of metamorphic fluids in the Central Alps, Switzerland: insight from LA-ICP-MS analysis of fluid inclusions. <i>Geofluids</i> , 2016, 16, 877-908.	0.7	31
26	Carbonatitic and granitic melts produced under conditions of primary immiscibility during anatexis in the lower crust. <i>Earth and Planetary Science Letters</i> , 2016, 454, 121-131.	4.4	43
27	Heterogeneous melt and hypersaline liquid inclusions in shallow porphyry type mineralization as markers of the magmatic-hydrothermal transition (Cerro de Pasco district, Peru). <i>Chemical Geology</i> , 2016, 447, 93-116.	3.3	38
28	Sulfide Replacement Processes Revealed by Textural and LA-ICP-MS Trace Element Analyses: Example from the Early Mineralization Stages at Cerro de Pasco, Peru. <i>Economic Geology</i> , 2016, 111, 1347-1367.	3.8	47
29	Stable isotope (B, H, O) and mineral-chemistry constraints on the magmatic to hydrothermal evolution of the Varutråsk rare-element pegmatite (Northern Sweden). <i>Chemical Geology</i> , 2016, 421, 1-16.	3.3	56
30	Tracing fluid migration pathways in the root zone below unconformity-related hydrothermal veins: Insights from trace element systematics of individual fluid inclusions. <i>Chemical Geology</i> , 2016, 429, 44-50.	3.3	40
31	The role of liquid-liquid immiscibility and crystal fractionation in the genesis of carbonatite magmas: insights from Kerimasi melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	46
32	Platinum partitioning between metal and silicate melts: Core formation, late veneer and the nanonuggets issue. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 183-201.	3.9	34
33	A Middle Ordovician Age for the Laisvall Sandstone-Hosted Pb-Zn Deposit, Sweden: A Response to Early Caledonian Orogenic Activity. <i>Economic Geology</i> , 2015, 110, 1779-1801.	3.8	18
34	OSL-thermochronometry using bedrock quartz: A note of caution. <i>Quaternary Geochronology</i> , 2015, 25, 37-48.	1.4	60
35	Magmatic salt melt and vapor: Extreme fluids forming porphyry gold deposits in shallow subvolcanic settings. <i>Geology</i> , 2014, 42, 495-498.	4.4	44
36	Hydrothermal fluids in epithermal and porphyry Au deposits in the Central Slovakia Volcanic Field. <i>Geological Society Special Publication</i> , 2014, 402, 177-206.	1.3	14

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37	Red bed and basement sourced fluids recorded in hydrothermal Mn-Fe-As veins, Sailauf (Germany): A LA-ICPMS fluid inclusion study. <i>Chemical Geology</i> , 2014, 363, 22-39.	3.3	32
38	Fluid inclusion measurements by laser ablation sector-field ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1052-1057.	3.0	12
39	Gold concentrations in metamorphic fluids: A LA-ICPMS study of fluid inclusions from the Alpine orogenic belt. <i>Chemical Geology</i> , 2014, 385, 70-83.	3.3	44
40	Major and trace-element composition and pressure-temperature evolution of rock-buffered fluids in low-grade accretionary-wedge metasediments, Central Alps. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 981-1008.	3.1	38
41	Solubility and partitioning behavior of Au, Cu, Ag and reduced S in magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 288-304.	3.9	115
42	Sulfur evolution of the 1991 Pinatubo magmas based on apatite. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 257, 72-89.	2.1	42
43	Late-metamorphic veins record deep ingression of meteoric water: A LA-ICPMS fluid inclusion study from the fold-and-thrust belt of the Rhenish Massif, Germany. <i>Chemical Geology</i> , 2013, 351, 134-153.	3.3	31
44	Quantifying the effect of solid phase composition and structure on solid-liquid partitioning of siderophile and chalcophile elements in the iron-sulfur system. <i>Chemical Geology</i> , 2013, 357, 85-94.	3.3	4
45	Evolution of unconformity-related MnFeAs vein mineralization, Sailauf (Germany): Insight from major and trace elements in oxide and carbonate minerals. <i>Ore Geology Reviews</i> , 2013, 50, 28-51.	2.7	13
46	Fluid mixing forms basement-hosted Pb-Zn deposits: Insight from metal and halogen geochemistry of individual fluid inclusions. <i>Geology</i> , 2013, 41, 679-682.	4.4	78
47	Accurate and precise quantification of major and trace element compositions of calcic-sodic fluid inclusions by combined microthermometry and LA-ICPMS analysis. <i>Chemical Geology</i> , 2012, 334, 144-153.	3.3	19
48	Gold and copper in volatile saturated mafic to intermediate magmas: Solubilities, partitioning, and implications for ore deposit formation. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 140-159.	3.9	110
49	Energy-Efficient Noble Metal Recovery by the Use of Acid-Stable Nanomagnets. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9355-9362.	3.7	30
50	Analyses of lithium-doped and pure magnesium diboride using ultraviolet nano- and femtosecond laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 193-195.	3.0	8
51	Evaluation of different calibration strategies for the analysis of pure copper and zinc samples using femtosecond laser ablation ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1471-1480.	3.7	21
52	Detection efficiencies in nano- and femtosecond laser ablation inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 109-112.	2.9	30
53	Magnetic EDTA: coupling heavy metal chelators to metal nanomagnets for rapid removal of cadmium, lead and copper from contaminated water. <i>Chemical Communications</i> , 2009, , 4862.	4.1	145
54	Expansion phenomena of aerosols generated by laser ablation under helium and argon atmosphere. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 37-41.	2.9	28

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55	Femtosecond laser ablation inductively coupled plasma mass spectrometry: Transport efficiencies of aerosols released under argon atmosphere and the importance of the focus position. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 271-276.	2.9	37
56	Analysis of Laser-Produced Aerosols by Inductively Coupled Plasma Mass Spectrometry: Transport Phenomena and Elemental Fractionation. <i>Analytical Chemistry</i> , 2008, 80, 915-921.	6.5	42
57	Analysis of brass and silicate glass by femtosecond laser ablation inductively coupled plasma mass spectrometry using liquid standard calibration. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1285.	3.0	20
58	Capabilities of Femtosecond Laser Ablation Inductively Coupled Plasma Mass Spectrometry for Depth Profiling of Thin Metal Coatings. <i>Analytical Chemistry</i> , 2007, 79, 2325-2333.	6.5	53
59	Performance characteristics of ultra-violet femtosecond laser ablation inductively coupled plasma mass spectrometry at $\lambda=265$ and $\lambda=200$ nm. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 932-940.	3.0	99