

# Markus Waelle

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

2,170  
citations

159585

30  
h-index

233421

45  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2056  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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       |
| 2  | 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       |
| 3  | 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       |
| 4  | 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       |
| 5  | 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        |
| 6  | 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        |
| 7  | 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        |
| 8  | OSL-thermochronometry using bedrock quartz: A note of caution. <i>Quaternary Geochronology</i> , 2015, 25, 37-48.  | 1.4 | 60        |
| 9  | 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        |
| 10 | 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        |
| 11 | 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        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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        |
| 16 | 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        |
| 17 | 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        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 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 | 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        |
| 23 | 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        |
| 24 | 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        |
| 25 | Microanalysis of Fluid Inclusions in Crustal Hydrothermal Systems using Laser Ablation Methods. <i>Elements</i> , 2016, 12, 323-328.   | 0.5 | 35        |
| 26 | 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        |
| 27 | 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        |
| 28 | 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        |
| 29 | Chemical evolution of metamorphic fluids in the Central Alps, Switzerland: insight from LA-ICPMS analysis of fluid inclusions. <i>Geofluids</i> , 2016, 16, 877-908.   | 0.7 | 31        |
| 30 | 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        |
| 31 | Trace element diffusion and incorporation in quartz during heating experiments. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.   | 3.1 | 31        |
| 32 | 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        |
| 33 | Energy-Efficient Noble Metal Recovery by the Use of Acid-Stable Nanomagnets. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 9355-9362.   | 3.7 | 30        |
| 34 | 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        |
| 35 | 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        |
| 36 | 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        |

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|----|--|-----|-----------|
| 37 | 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        |
| 38 | 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        |
| 39 | Energite-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        |
| 40 | 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        |
| 41 | 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        |
| 42 | 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        |
| 43 | 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        |
| 44 | 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        |
| 45 | 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        |
| 46 | 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        |
| 47 | 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        |
| 48 | 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        |
| 49 | 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        |
| 50 | Fluid inclusion measurements by laser ablation sector-field ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1052-1057.  | 3.0 | 12        |
| 51 | 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        |
| 52 | 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        |
| 53 | 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        |
| 54 | 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         |

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|----|--|-----|-----------|
| 55 | 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         |
| 56 | 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         |
| 57 | 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         |
| 58 | 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         |
| 59 | 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         |