

Matthias G Barth

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

3,312
citations

218677

26
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

2882
citing authors

#	ARTICLE	IF	CITATIONS
1	Rutile/melt partition coefficients for trace elements and an assessment of the influence of rutile on the trace element characteristics of subduction zone magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 933-938.	3.9	514
2	Tracking the budget of Nb and Ta in the continental crust. <i>Chemical Geology</i> , 2000, 165, 197-213.	3.3	496
3	Rutile-Bearing Refractory Eclogites: Missing Link Between Continents and Depleted Mantle. <i>Science</i> , 2000, 287, 278-281.	12.6	455
4	Geochemistry of xenolithic eclogites from West Africa, part I: A link between low MgO eclogites and Archean crust formation. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1499-1527.	3.9	198
5	In situ U-Pb rutile dating by LA-ICP-MS: 208Pb correction and prospects for geological applications. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 515-530.	3.1	186
6	Partial melting in Archean subduction zones: constraints from experimentally determined trace element partition coefficients between eclogitic minerals and tonalitic melts under upper mantle conditions. <i>Precambrian Research</i> , 2002, 113, 323-340.	2.7	133
7	The volatile inventory (F, Cl, Br, S, C) of magmatic apatite: An integrated analytical approach. <i>Chemical Geology</i> , 2012, 291, 241-255.	3.3	121
8	Geochemistry of xenolithic eclogites from West Africa, part 2: origins of the high MgO eclogites. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 4325-4345.	3.9	105
9	Geochemistry of the Othris Ophiolite, Greece: Evidence for Refertilization?. <i>Journal of Petrology</i> , 2003, 44, 1759-1785.	2.8	99
10	Diffuse porous melt flow and melt-rock reaction in the mantle lithosphere at a slow-spreading ridge: A structural petrology and LA-ICP-MS study of the Othris Peridotite Massif (Greece). <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	95
11	Negative Ce anomalies in Mn oxides: The role of Ce ⁴⁺ mobility during water-mineral interaction. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 86, 296-317.	3.9	84
12	Trace element systematics of tourmaline in pegmatitic and hydrothermal systems from the Variscan Schwarzwald (Germany): The importance of major element composition, sector zoning, and fluid or melt composition. <i>Chemical Geology</i> , 2013, 344, 73-90.	3.3	84
13	The Othris Ophiolite, Greece: A snapshot of subduction initiation at a mid-ocean ridge. <i>Lithos</i> , 2008, 100, 234-254.	1.4	71
14	Re-Os and U-Pb geochronological constraints on the eclogite-tonalite connection in the Archean Man Shield, West Africa. <i>Precambrian Research</i> , 2002, 118, 267-283.	2.7	70
15	Coupled silicon-oxygen isotope fractionation traces Archean silicification. <i>Earth and Planetary Science Letters</i> , 2011, 301, 222-230.	4.4	70
16	Zircon ages for a felsic volcanic rock and arc-related early Palaeozoic sediments on the margin of the Baydrag microcontinent, central Asian orogenic belt, Mongolia. <i>Journal of Asian Earth Sciences</i> , 2011, 42, 1008-1017.	2.3	69
17	Continuous cratonic crust between the Congo and Tanzania blocks in western Uganda. <i>International Journal of Earth Sciences</i> , 2010, 99, 1559-1573.	1.8	68
18	Laser-ablation ICP-MS analysis of siliceous rock glasses fused on an iridium strip heater using MgO dilution. <i>Mikrochimica Acta</i> , 2008, 160, 153-163.	5.0	62

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19	Sinistral transport along the Trans-European Suture Zone: detrital zircon-rutile geochronology and sandstone petrography from the Carboniferous flysch of the Pontides. <i>Geological Magazine</i> , 2011, 148, 380-403.	1.5	62
20	Early Palaeozoic deep subduction of continental crust in the Kyrgyz North Tianshan: evidence from Lu-Hf garnet geochronology and petrology of mafic dikes. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 525-543.	3.1	43
21	Investigation of Li/Ca variations in aragonitic shells of the ocean quahog <i>Arctica islandica</i> , northeast Iceland. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	34
22	Geochemistry and tectonic setting of mafic rocks from the Othris Ophiolite, Greece. <i>Contributions To Mineralogy and Petrology</i> , 2009, 157, 23-40.	3.1	33
23	Direct dating of gold by radiogenic helium: Testing the method on gold from Diamantina, Minas Gerais, Brazil. <i>Geology</i> , 2013, 41, 163-166.	4.4	32
24	The Demir Kapija Ophiolite, Macedonia (FYROM): a Snapshot of Subduction Initiation within a Back-arc. <i>Journal of Petrology</i> , 2013, 54, 1427-1453.	2.8	31
25	Metamorphic reaction rates at 4650-800°C from diffusion of niobium in rutile. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 130, 63-77.	3.9	29
26	Fluid migration above a subducted slab - Thermodynamic and trace element modelling of fluid-rock interaction in partially overprinted eclogite-facies rocks (Sesia Zone, Western Alps). <i>Earth and Planetary Science Letters</i> , 2011, 311, 287-298.	4.4	28
27	Indo-Antarctic derived detritus on the northern margin of Gondwana: evidence for continental-scale sediment transport. <i>Terra Nova</i> , 2014, 26, 64-71.	2.1	23
28	Zircon ages, Sr-Nd-Hf isotopic compositions, and geochemistry of granitoids associated with the northern ophiolite melange of Central Cuba: Tectonic implication for Late Cretaceous magmatism in the Northwestern Caribbean. <i>Numerische Mathematik</i> , 2010, 310, 1453-1479.	1.4	17
29	Geochemical and geochronological constraints on origin of the Sawlava ophiolite (NW Iran): Evidence for oceanic mantle evolution beneath Iran-Iraq border. <i>Lithos</i> , 2022, 418-419, 106695.	1.4	0