

Horst Marschall

List of Publications by Year in descending order

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93
papers

4,652
citations

87888

38
h-index

102487

66
g-index

102
all docs

102
docs citations

102
times ranked

3158
citing authors

#	ARTICLE	IF	CITATIONS
1	Arc magmas sourced from mantle diapirs in subduction zones. <i>Nature Geoscience</i> , 2012, 5, 862-867.	12.9	428
2	Variations of Li and Mg isotope ratios in bulk chondrites and mantle xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5247-5268.	3.9	252
3	Tourmaline: an ideal indicator of its host environment. <i>Canadian Mineralogist</i> , 2011, 49, 1-16.	1.0	234
4	Tourmaline Isotopes: No Element Left Behind. <i>Elements</i> , 2011, 7, 313-319.	0.5	196
5	The boron and lithium isotopic composition of mid-ocean ridge basalts and the mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 102-138.	3.9	195
6	The lithium isotopic composition of orogenic eclogites and deep subducted slabs. <i>Earth and Planetary Science Letters</i> , 2007, 262, 563-580.	4.4	192
7	Geochemical evidence for mantle melting in global arcs. <i>Science Advances</i> , 2017, 3, e1602402.	10.3	155
8	Squeezing out the slab – modelling the release of Li, Be and B during progressive high-pressure metamorphism. <i>Chemical Geology</i> , 2007, 239, 323-335.	3.3	134
9	Syros Metasomatic Tourmaline: Evidence for Very High-Pressure Fluids in Subduction Zones. <i>Journal of Petrology</i> , 2006, 47, 1915-1942.	2.8	130
10	Early accretion of water in the inner solar system from a carbonaceous chondrite-like source. <i>Science</i> , 2014, 346, 623-626.	12.6	128
11	Partitioning and budget of Li, Be and B in high-pressure metamorphic rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4750-4769.	3.9	93
12	Arc-like magmas generated by mantle-peridotite interaction in the mantle wedge. <i>Nature Communications</i> , 2018, 9, 2864.	12.8	90
13	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
14	On the occurrence and boron isotopic composition of tourmaline in (ultra)high-pressure metamorphic rocks. <i>Journal of the Geological Society</i> , 2009, 166, 811-823.	2.1	78
15	Generation of alkaline magmas in subduction zones by partial melting of mantle diapirs – An experimental study. <i>Geology</i> , 2018, 46, 343-346.	4.4	77
16	Metasomatic formation and petrology of blueschist-facies hybrid rocks from Syros (Greece): Implications for reactions at the slab-mantle interface. <i>Lithos</i> , 2009, 107, 53-67.	1.4	76
17	Characterization of magma from inclusions in zircon: Apatite and biotite work well, feldspar less so. <i>Geology</i> , 2011, 39, 863-866.	4.4	73
18	Evolution of a tourmaline-bearing lawsonite eclogite from the Elekdara area (Central Pontides, N Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Mineralogy and Petrology, 2004, 148, 409-425.	3.1	71

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19	The Annandagstoppane Granite, East Antarctica: Evidence for Archaean Intracrustal Recycling in the Kaapvaal-Grunehogna Craton from Zircon O and Hf Isotopes. <i>Journal of Petrology</i> , 2010, 51, 2277-2301.	2.8	68
20	Experimental boron isotope fractionation between tourmaline and fluid: confirmation from in situ analyses by secondary ion mass spectrometry and from Rayleigh fractionation modelling. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 675-681.	3.1	65
21	Changes in tourmaline composition during magmatic and hydrothermal processes leading to tin-ore deposition: The Cornubian Batholith, SW England. <i>Ore Geology Reviews</i> , 2017, 83, 215-234.	2.7	61
22	Detrital, metamorphic and metasomatic tourmaline in high-pressure metasediments from Syros (Greece): intra-grain boron isotope patterns determined by secondary-ion mass spectrometry. <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 703-717.	3.1	58
23	Trace-element partitioning and boron isotope fractionation between white mica and tourmaline. <i>Canadian Mineralogist</i> , 2011, 49, 165-176.	1.0	58
24	Effects of fluid-rock interaction on $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology in high-pressure rocks (Sesia-Lanzo). <i>Journal of Petrology</i> , 2010, 51, 107-120.	3.9	58
25	P-T Evolution of a Variscan Lower-Crustal Segment: a Study of Granulites from the Schwarzwald, Germany. <i>Journal of Petrology</i> , 2003, 44, 227-253.	2.8	57
26	Diffusion-induced fractionation of niobium and tantalum during continental crust formation. <i>Earth and Planetary Science Letters</i> , 2013, 375, 361-371.	4.4	55
27	Tetrahedrally coordinated boron in tourmalines from the liddicoatite-elbaite series from Madagascar: Structure, chemistry, and infrared spectroscopic studies. <i>American Mineralogist</i> , 2006, 91, 1847-1856.	1.9	54
28	Extreme Magnesium Isotope Fractionation at Outcrop Scale Records the Mechanism and Rate at which Reaction Fronts Advance. <i>Journal of Petrology</i> , 2015, 56, 33-58.	2.8	53
29	Early accretion of water and volatile elements to the inner Solar System: evidence from angrites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160209.	3.4	51
30	Metamorphic ultrahigh-pressure tourmaline: Structure, chemistry, and correlations to P-T conditions. <i>American Mineralogist</i> , 2010, 95, 1-10.	1.9	49
31	Boron Isotopes in the Ocean Floor Realm and the Mantle. <i>Advances in Isotope Geochemistry</i> , 2018, , 189-215.	1.4	49
32	Lithium, boron and chlorine as tracers for metasomatism in high-pressure metamorphic rocks: a case study from Syros (Greece). <i>Mineralogy and Petrology</i> , 2009, 95, 291-302.	1.1	45
33	Li abundances in eclogite minerals: a clue to a crustal or mantle origin?. <i>Contributions To Mineralogy and Petrology</i> , 2002, 143, 587-601.	3.1	43
34	Boron and boron isotope systematics in the peralkaline Ilímaussaq intrusion (South Greenland) and its granitic country rocks: A record of magmatic and hydrothermal processes. <i>Lithos</i> , 2011, 125, 51-64.	1.4	42
35	Melting phlogopite-rich MARID: Lamproites and the role of alkalis in olivine-liquid Ni-partitioning. <i>Chemical Geology</i> , 2018, 476, 429-440.	3.3	42
36	Isotopic Compositions of Sulfides in Exhumed High-Pressure Terranes: Implications for Sulfur Cycling in Subduction Zones. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3347-3374.	2.5	42

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37	Mesoproterozoic subduction under the eastern edge of the Kalahari-Grunehogna Craton preceding Rodinia assembly: The Ritscherflya detrital zircon record, Ahlmannryggen (Dronning Maud Land, Antarctica). <i>Journal of Petrology</i> , 2016, 57, 185-228.	2.8	40
38	Prolonged Ediacaran-Cambrian Metamorphic History and Short-lived High-pressure Granulite-facies Metamorphism in the H.U. Sverdrupfjella, Dronning Maud Land (East Antarctica): Evidence for Continental Collision during Gondwana Assembly. <i>Journal of Petrology</i> , 2016, 57, 185-228.	2.8	40
39	Silicate melt inclusions in the new millennium: A review of recommended practices for preparation, analysis, and data presentation. <i>Chemical Geology</i> , 2021, 570, 120145.	3.3	40
40	Distinguishing East and West Antarctic sediment sources using the Pb isotope composition of detrital K-feldspar. <i>Chemical Geology</i> , 2012, 292-293, 88-102.	3.3	38
41	The low-boron contest: minimising surface contamination and analysing boron concentrations at the ng/g-level by secondary ion mass spectrometry. <i>Mineralogy and Petrology</i> , 2004, 81, 265-278.	1.1	37
42	Boron isotope and light element sector zoning in tourmaline: Implications for the formation of B-isotopic signatures. <i>Chemical Geology</i> , 2007, 238, 141-148.	3.3	36
43	Sulfur loss from subducted altered oceanic crust and implications for mantle oxidation. <i>Geochemical Perspectives Letters</i> , 0, , 36-41.	5.0	36
44	Metamorphic Na- and OH-rich disordered dravite with tetrahedral boron, associated with omphacite, from Syros, Greece: chemistry and structure. <i>European Journal of Mineralogy</i> , 2004, 16, 817-823.	1.3	35
45	Angrite meteorites record the onset and flux of water to the inner solar system. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 212, 156-166.	3.9	33
46	Fluorine and chlorine in mantle minerals and the halogen budget of the Earth's mantle. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	33
47	Development and evolution of detachment faulting along 50 km of the Mid-Atlantic Ridge near 16.5°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4692-4711.	2.5	32
48	Re-examination of the boron isotopic composition of tourmaline from the Lavicky granite, Czech Republic, by secondary ion mass spectrometry: back to normal. Critical comment on the chemical and boron isotopic compositions of tourmaline from the Lavicky leucogranite, Czech Republic by S.-Y. Jiang et al., <i>Geochemical Journal</i> , 37, 545-556, 2003. <i>Geochemical Journal</i> , 2006, 40, 631-638.	1.0	31
49	Fluorapatite-monazite relationships in granulite-facies metapelites, Schwarzwald, southwest Germany. <i>Mineralogical Magazine</i> , 2007, 71, 223-234.	1.4	30
50	A secondary ion mass spectrometry (SIMS) re-evaluation of B and Li isotopic compositions of Cu-bearing elbaite from three global localities. <i>Mineralogical Magazine</i> , 2011, 75, 2485-2494.	1.4	30
51	Boron Isotope Analysis of Silicate Glass with Very Low Boron Concentrations by Secondary Ion Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2015, 39, 31-46.	3.1	28
52	Mid-ocean Ridge Serpentinite in the Puerto Rico Trench: from Seafloor Spreading to Subduction. <i>Journal of Petrology</i> , 2017, 58, 1729-1754.	2.8	28
53	Diffusion of Zr, Hf, Nb and Ta in rutile: effects of temperature, oxygen fugacity, and doping level, and relation to rutile point defect chemistry. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 311-332.	0.8	25
54	⁴⁰ Ar/ ³⁹ Ar dating of tourmaline from metamorphic rocks of the Kokchetav massif, Kazakhstan. <i>Doklady Earth Sciences</i> , 2009, 424, 168-170.	0.7	24

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55	Thallium isotope systematics in volcanic rocks from St. Helena – Constraints on the origin of the HIMU reservoir. <i>Chemical Geology</i> , 2018, 476, 292-301.	3.3	24
56	Fluid-mediated mass transfer from a paleosubduction channel to its mantle wedge: Evidence from jadeitite and related rocks from the Guatemala Suture Zone. <i>Lithos</i> , 2016, 258-259, 15-36.	1.4	23
57	The water and fluorine content of 4 Vesta. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 568-581.	3.9	21
58	Major-element and Li, Be compositional evolution of tourmaline in an S-type granite-pegmatite system and its country rocks: an example from Ikaria, Aegean Sea, Greece. <i>Canadian Mineralogist</i> , 2011, 49, 321-340.	1.0	20
59	Tectonic settings of continental crust formation: Insights from Pb isotopes in feldspar inclusions in zircon. <i>Geology</i> , 2016, 44, 819-822.	4.4	20
60	Closing the loop: Subducted eclogites match thallium isotope compositions of ocean island basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 130-148.	3.9	20
61	Boron isotopes in tourmaline as a tracer of metasomatic processes in the Bamble sector of Southern Norway. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	19
62	Fluid-induced breakdown of white mica controls nitrogen transfer during fluid–rock interaction in subduction zones. <i>International Geology Review</i> , 2017, 59, 702-720.	2.1	19
63	Emplacement and High-Temperature Evolution of Gabbros of the 16.5°N Oceanic Core Complexes (Mid-Atlantic Ridge): Insights Into the Compositional Variability of the Lower Oceanic Crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 46-66.	2.5	19
64	Chemical analysis of high-pressure metamorphic rocks by PGNA: Comparison with results from XRF and solution ICP-MS. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 265, 339-348.	1.5	17
65	Metasomatism and deformation of block-in-matrix structures in Syros: The role of inheritance and fluid-rock interactions along the subduction interface. <i>Lithos</i> , 2021, 386-387, 105996.	1.4	17
66	Sodic Pyroxene and Sodic Amphibole as Potential Reference Materials for <i>In Situ</i> Lithium Isotope Determinations by SIMS. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 295-310.	3.1	16
67	Melting of sediments in the deep mantle produces saline fluid inclusions in diamonds. <i>Science Advances</i> , 2019, 5, eaau2620.	10.3	16
68	Boron Isotope Analysis of Geological Materials. <i>Advances in Isotope Geochemistry</i> , 2018, , 13-31.	1.4	14
69	Questioning Fe isotopes as a provenance tool: Insights from bog iron ores and alternative applications in archeometry. <i>Journal of Archaeological Science</i> , 2019, 101, 52-62.	2.4	14
70	Metasomatic tourmaline in hybrid contact-bands between gneiss and peridotite in the Ulten zone of the Eastern Italian Alps: chemistry and boron isotopic composition. <i>Canadian Mineralogist</i> , 2011, 49, 245-261.	1.0	12
71	High-Temperature Processes: Is it Time for Lithium Isotopes?. <i>Elements</i> , 2020, 16, 247-252.	0.5	12
72	Boron Isotopes in the Earth and Planetary Sciences – A Short History and Introduction. <i>Advances in Isotope Geochemistry</i> , 2018, , 1-11.	1.4	11

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73	Laser-ablation MC-ICP-MS lead isotope microanalysis down to 10 μm : application to K-feldspar inclusions within zircon. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 195-204.	3.0	10
74	Detrital garnet geochronology: Application in tributaries of the French Broad River, Southern Appalachian Mountains, USA. <i>Geology</i> , 2019, 47, 1189-1192.	4.4	10
75	Tourmaline Reference Materials for the <i>In Situ</i> Analysis of Oxygen and Lithium Isotope Ratio Compositions. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 97-119.	3.1	10
76	The roles of mechanical mixing and fluid transport in the formation of reaction zones in subduction-related magmas: Evidence from highly siderophile elements. <i>Chemical Geology</i> , 2019, 525, 96-111.	3.3	9
77	The role of sulfides in the chalcophile and siderophile element budget of the subducted oceanic crust. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 304, 191-215.	3.9	9
78	Fluid-Mediated Mass Transfer Between Mafic and Ultramafic Rocks in Subduction Zones. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	9
79	Extent, thickness and erosion of the Jurassic continental flood basalts of Dronning Maud Land, East Antarctica: A low-T thermochronological approach. <i>Gondwana Research</i> , 2018, 61, 222-243.	6.0	7
80	Accurate correction for the matrix interference on laser ablation MC-ICPMS boron isotope measurements in CaCO_3 and silicate matrices. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1607-1617.	3.0	7
81	Boron Stable Isotopes. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 1-6.	0.1	5
82	Fossil records of early solar irradiation and cosmolocalization of the CAI factory: A reappraisal. <i>Science Advances</i> , 2021, 7, eabg8329.	10.3	4
83	Boron isotopes of white mica and tourmaline in an ultra-high pressure metapelite from the western Tianshan, China: dehydration and metasomatism during exhumation of subducted ocean-floor sediments. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	4
84	Li abundances in eclogite minerals: a clue to a crustal or mantle origin?. <i>Contributions To Mineralogy and Petrology</i> , 2002, 144, 128-130.	3.1	3
85	The genesis and age of the Grunehogna Granite and Rb-Sr and Sm-Nd chemistry of the Annandagstoppane Granite, Ahlmanryggen, Dronning Maud Land, Antarctica. <i>Polar Science</i> , 2021, 30, 100717.	1.2	3
86	Host-influenced geochemical signature in the parasitic foraminifera <i>Hydrokkin sarcophaga</i> . <i>Biogeosciences</i> , 2021, 18, 4733-4753.	3.3	3
87	Iron and oxygen isotope systematics during corrosion of iron objects: a first approach. <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	1.8	3
88	Mechanisms of metasomatic reactions. <i>Mineralogy and Petrology</i> , 2009, 95, 159-161.	1.1	2
89	Development of a synorogenic composite sill at deep structural levels of a continental arc (Odenwald, Germany). Part 1: Sederholm-type emplacement portrayed by contact melt in shrinkage cracks. <i>Tectonophysics</i> , 2021, 805, 228774.	2.2	2
90	Boron Stable Isotopes. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 162-166.	0.1	2

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91	Development of a synorogenic composite sill at deep structural levels of a magmatic arc (Odenwald, Tj ETQq1 1 Structural Geology, 2022, 155, 104525.	0.784314 2.3	14 2
92	Volatile Addition to the Inner Solar System Between 4.566 and 4.564 Ga: Evidence from Angrite Meteorites. Microscopy and Microanalysis, 2016, 22, 1802-1803.	0.4	0
93	Corrigendum to: "Mid-ocean Ridge Serpentinite in the Puerto Rico Trench: from Seafloor Spreading to Subduction". Journal of Petrology, 2019, 60, 2547-2547.	2.8	0