

Joerg Hermann

List of Publications by Year in descending order

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190
papers

16,448
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11651

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16650

123
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docs citations

207
times ranked

6159
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#	ARTICLE	IF	CITATIONS
1	Zircon formation during fluid circulation in eclogites (Monviso, Western Alps): implications for Zr and Hf budget in subduction zones. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2173-2187.	3.9	570
2	Diffusion of ⁴⁰ Ar in muscovite. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1039-1051.	3.9	549
3	Aqueous fluids and hydrous melts in high-pressure and ultra-high pressure rocks: Implications for element transfer in subduction zones. <i>Lithos</i> , 2006, 92, 399-417.	1.4	531
4	Experimental zircon/melt and zircon/garnet trace element partitioning and implications for the geochronology of crustal rocks. <i>Chemical Geology</i> , 2007, 241, 38-61.	3.3	481
5	Exhumation as fast as subduction?. <i>Geology</i> , 2001, 29, 3.	4.4	458
6	Sediment Melts at Sub-arc Depths: an Experimental Study. <i>Journal of Petrology</i> , 2008, 49, 717-740.	2.8	419
7	Multiple zircon growth during fast exhumation of diamondiferous, deeply subducted continental crust (Kokchetav Massif, Kazakhstan). <i>Contributions To Mineralogy and Petrology</i> , 2001, 141, 66-82.	3.1	407
8	Accessory phase control on the trace element signature of sediment melts in subduction zones. <i>Chemical Geology</i> , 2009, 265, 512-526.	3.3	364
9	Partial melting of lower crust at 10-15 kbar: constraints on adakite and TTG formation. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 1195-1224.	3.1	358
10	Allanite: thorium and light rare earth element carrier in subducted crust. <i>Chemical Geology</i> , 2002, 192, 289-306.	3.3	323
11	Redistribution of trace elements during prograde metamorphism from lawsonite blueschist to eclogite facies; implications for deep subduction-zone processes. <i>Contributions To Mineralogy and Petrology</i> , 2003, 146, 205-222.	3.1	322
12	Relating zircon and monazite domains to garnet growth zones: age and duration of granulite facies metamorphism in the Val Malenco lower crust. <i>Journal of Metamorphic Geology</i> , 2003, 21, 833-852.	3.4	319
13	Experimental constraints on high pressure melting in subducted crust. <i>Earth and Planetary Science Letters</i> , 2001, 188, 149-168.	4.4	242
14	Experimental study of monazite/melt partitioning with implications for the REE, Th and U geochemistry of crustal rocks. <i>Chemical Geology</i> , 2012, 300-301, 200-220.	3.3	230
15	Temperature and Bulk Composition Control on the Growth of Monazite and Zircon During Low-pressure Anatexis (Mount Stafford, Central Australia). <i>Journal of Petrology</i> , 2006, 47, 1973-1996.	2.8	223
16	Zircon Behaviour in Deeply Subducted Rocks. <i>Elements</i> , 2007, 3, 31-35.	0.5	211
17	The importance of serpentinite mylonites for subduction and exhumation of oceanic crust. <i>Tectonophysics</i> , 2000, 327, 225-238.	2.2	206
18	Geochemistry of continental subduction-zone fluids. <i>Earth, Planets and Space</i> , 2014, 66, 93.	2.5	205

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19	Experimental constraints on phase relations in subducted continental crust. Contributions To Mineralogy and Petrology, 2002, 143, 219-235.	3.1	193
20	The robustness of the Zr-in-rutile and Ti-in-zircon thermometers during high-temperature metamorphism (Ivrea-Verbanò Zone, northern Italy). Contributions To Mineralogy and Petrology, 2013, 165, 757-779.	3.1	193
21	Fingerprinting the water site in mantle olivine. Geology, 2005, 33, 869.	4.4	191
22	Yo-yo subduction recorded by accessory minerals in the Italian Western Alps. Nature Geoscience, 2011, 4, 338-342.	12.9	178
23	Silicate and carbonate melt inclusions associated with diamonds in deeply subducted carbonate rocks. Earth and Planetary Science Letters, 2006, 241, 104-118.	4.4	176
24	Protracted fluid-induced melting during Barrovian metamorphism in the Central Alps. Contributions To Mineralogy and Petrology, 2009, 158, 703-722.	3.1	176
25	Subduction of water into the mantle: History of an Alpine peridotite. Geology, 1995, 23, 459.	4.4	172
26	Experimental constraints on element mobility from subducted sediments using high-P synthetic fluid/melt inclusions. Chemical Geology, 2007, 239, 228-249.	3.3	171
27	Cooling History and Exhumation of Lower-Crustal Granulite and Upper Mantle (Malenco, Eastern Tj ETQq1 1 0.784314 rgBT /Overloc	2.8	170
28	Deep Fluids in Subducted Continental Crust. Elements, 2013, 9, 281-287.	0.5	159
29	Fractionation of Nb and Ta by biotite and phengite: Implications for the "missing Nb paradox". Geology, 2013, 41, 303-306.	4.4	157
30	Geochemical heterogeneity and element mobility in deeply subducted oceanic crust; insights from high-pressure mafic rocks from New Caledonia. Chemical Geology, 2004, 206, 21-42.	3.3	154
31	Tschermak's substitution in antigorite and consequences for phase relations and water liberation in high-grade serpentinites. Lithos, 2013, 178, 186-196.	1.4	153
32	Incompatible element-rich fluids released by antigorite breakdown in deeply subducted mantle. Earth and Planetary Science Letters, 2001, 192, 457-470.	4.4	152
33	The Proterozoic magmatic and metamorphic history of the Banded Gneiss Complex, central Rajasthan, India: LA-ICP-MS U-Pb zircon constraints. Precambrian Research, 2006, 151, 119-142.	2.7	151
34	Quantitative absorbance spectroscopy with unpolarized light: Part II. Experimental evaluation and development of a protocol for quantitative analysis of mineral IR spectra. American Mineralogist, 2008, 93, 765-778.	1.9	150
35	The importance of talc and chlorite "hybrid" rocks for volatile recycling through subduction zones; evidence from the high-pressure subduction "range of New Caledonia. Contributions To Mineralogy and Petrology, 2008, 155, 181-198.	3.1	148
36	A SHRIMP U-Pb and LA-ICP-MS trace element study of the petrogenesis of garnet "cordierite" orthoamphibole gneisses from the Central Zone of the Limpopo Belt, South Africa. Lithos, 2006, 88, 150-172.	1.4	136

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37	Mechanisms of Crustal Anatexis: a Geochemical Study of Partially Melted Metapelitic Enclaves and Host Dacite, SE Spain. <i>Journal of Petrology</i> , 2010, 51, 785-821.	2.8	136
38	An Experimental Study of Carbonated Eclogite at 5.5 GPa—Implications for Silicate and Carbonate Metasomatism in the Cratonic Mantle. <i>Journal of Petrology</i> , 2012, 53, 727-759.	2.8	131
39	Constraints on the Proterozoic evolution of the Aravalli—Delhi Orogenic belt (NW India) from monazite geochronology and mineral trace element geochemistry. <i>Lithos</i> , 2010, 120, 511-528.	1.4	129
40	Polyphase inclusions in garnet—orthopyroxenite (Dabie Shan, China) as monitors for metasomatism and fluid-related trace element transfer in subduction zone peridotite. <i>Earth and Planetary Science Letters</i> , 2006, 249, 173-187.	4.4	127
41	$^{39}\text{Ar}/^{40}\text{Ar}$ dating of multiply zoned amphibole generations (Malenco, Italian Alps). <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 363-381.	3.1	126
42	Experimental evidence for diamond-facies metamorphism in the Dora-Maira massif. <i>Lithos</i> , 2003, 70, 163-182.	1.4	125
43	Melt- versus fluid-induced metasomatism in spinel to garnet wedge peridotites (Ulten Zone, Eastern Tj ETQq1 1 0.784314 rgBT /Overbor 2006, 151, 372-394.	3.1	125
44	Formation of High-Mg Diorites through Assimilation of Peridotite by Monzodiorite Magma at Crustal Depths. <i>Journal of Petrology</i> , 2010, 51, 1381-1416.	2.8	125
45	Allanite micro-geochronology: A LA-ICP-MS and SHRIMP U—Th—Pb study. <i>Chemical Geology</i> , 2007, 245, 162-182.	3.3	122
46	Composition of fluids during serpentinite breakdown in subduction zones: Evidence for limited boron mobility. <i>Geology</i> , 2004, 32, 865.	4.4	118
47	The infrared signature of water associated with trivalent cations in olivine. <i>Earth and Planetary Science Letters</i> , 2007, 261, 134-142.	4.4	118
48	An experimental investigation of antigorite dehydration in natural silica-enriched serpentinite. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 25-42.	3.1	110
49	Ediacaran 2,500-km-long synchronous deep continental subduction in the West Gondwana Orogen. <i>Nature Communications</i> , 2014, 5, 5198.	12.8	109
50	Site-specific hydrogen diffusion rates in forsterite. <i>Earth and Planetary Science Letters</i> , 2014, 392, 100-112.	4.4	108
51	High-pressure veins in eclogite from New Caledonia and their significance for fluid migration in subduction zones. <i>Lithos</i> , 2006, 89, 135-153.	1.4	103
52	Site-specific infrared O-H absorption coefficients for water substitution into olivine. <i>American Mineralogist</i> , 2010, 95, 292-299.	1.9	100
53	Subduction of Continental Crust to Mantle Depth. , 2014, , 309-340.		88
54	Fluid/mineral interaction in UHP garnet peridotite. <i>Lithos</i> , 2009, 107, 38-52.	1.4	87

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55	UHP Metamorphism Documented in Ti-chondrodite- and Ti-clinohumite-bearing Serpentinized Ultramafic Rocks from Chinese Southwestern Tianshan. <i>Journal of Petrology</i> , 2015, 56, 1425-1458.	2.8	87
56	Titanium solubility in olivine in the system TiO_2 - MgO - SiO_2 : no evidence for an ultra-deep origin of Ti-bearing olivine. <i>Contributions To Mineralogy and Petrology</i> , 2005, 148, 746-760.	3.1	86
57	Quantitative absorbance spectroscopy with unpolarized light: Part I. Physical and mathematical development. <i>American Mineralogist</i> , 2008, 93, 751-764.	1.9	85
58	An Experimental Study of Water in Nominally Anhydrous Minerals in the Upper Mantle near the Water-saturated Solidus. <i>Journal of Petrology</i> , 2012, 53, 2067-2093.	2.8	84
59	Titanium substitution mechanisms in forsterite. <i>Chemical Geology</i> , 2007, 242, 176-186.	3.3	83
60	Fossil crust-to-mantle transition, Val Malenco (Italian Alps). <i>Journal of Geophysical Research</i> , 1997, 102, 20123-20132.	3.3	81
61	Petrology and Geochemistry of the Crust-Mantle Boundary in a Nascent Arc, Massif du Sud Ophiolite, New Caledonia, SW Pacific. <i>Journal of Petrology</i> , 2013, 54, 1759-1792.	2.8	81
62	On the evolution of orogens: Pressure cycles and deformation mode switches. <i>Earth and Planetary Science Letters</i> , 2007, 256, 372-388.	4.4	78
63	Experimentally determined stability of alkali amphibole in metasomatised dunite at sub-arc pressures. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	78
64	Supra-subduction Zone Pyroxenites from San Jorge and Santa Isabel (Solomon Islands). <i>Journal of Petrology</i> , 2006, 47, 1531-1555.	2.8	76
65	Dating prograde fluid pulses during subduction by in situ U-Pb and oxygen isotope analysis. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	75
66	Late Cretaceous-Tertiary tectonics of the southwest Pacific: Insights from U-Pb sensitive, high-resolution ion microprobe (SHRIMP) dating of eclogite facies rocks from New Caledonia. <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	74
67	Multistage metasomatism in ultrahigh-pressure mafic rocks from the North Dabie Complex (China). <i>Lithos</i> , 2006, 90, 19-42.	1.4	74
68	Three water sites in upper mantle olivine and the role of titanium in the water weakening mechanism. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	74
69	Primary melt inclusions in andalusite from anatectic graphitic metapelites: Implications for the position of the Al_2SiO_5 triple point. <i>Geology</i> , 2003, 31, 573.	4.4	73
70	Exsolution of thortveitite, yttrilite, and xenotime during low-temperature recrystallization of zircon from New Caledonia, and their significance for trace element incorporation in zircon. <i>American Mineralogist</i> , 2004, 89, 1795-1806.	1.9	73
71	Subducting serpentinites release reduced, not oxidized, aqueous fluids. <i>Scientific Reports</i> , 2019, 9, 19573.	3.3	73
72	Ti site occupancy in zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 905-921.	3.9	72

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73	Sub-solidus Oligocene zircon formation in garnet peridotite during fast decompression and fluid infiltration (Duria, Central Alps). <i>Mineralogy and Petrology</i> , 2006, 88, 181-206.	1.1	71
74	Apatite as an indicator of fluid salinity: An experimental study of chlorine and fluorine partitioning in subducted sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 267-297.	3.9	71
75	Submarine back-arc lava with arc signature: Fonualei Spreading Center, northeast Lau Basin, Tonga. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	70
76	Comparative diffusion coefficients of major and trace elements in olivine at ~ 14950 Å°C from a xenocryst included in dioritic magma. <i>Geology</i> , 2010, 38, 331-334.	4.4	69
77	Arc magmas oxidized by water dissociation and hydrogen incorporation in orthopyroxene. <i>Nature Geoscience</i> , 2019, 12, 667-671.	12.9	69
78	Late Eocene lawsonite-eclogite facies metasomatism of a granulite sliver associated to ophiolites in Alpine Corsica. <i>Lithos</i> , 2011, 125, 620-640.	1.4	66
79	Anorthosite formation by plagioclase flotation in ferrobasalt and implications for the lunar crust. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4998-5018.	3.9	65
80	Differentiation of Mafic Magma in a Continental Crust-to-Mantle Transition Zone. <i>Journal of Petrology</i> , 2001, 42, 189-206.	2.8	64
81	Lawsonite geochemistry and stability â€“ implication for trace element and water cycles in subduction zones. <i>Journal of Metamorphic Geology</i> , 2014, 32, 455-478.	3.4	64
82	Focused fluid transfer through the mantle above subduction zones. <i>Geology</i> , 2015, 43, 915-918.	4.4	63
83	A Subsolidus Olivine Water Solubility Equation for the Earth's Upper Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9862-9880.	3.4	63
84	Continuous eclogite melting and variable refertilisation in upwelling heterogeneous mantle. <i>Scientific Reports</i> , 2014, 4, 6099.	3.3	61
85	The origin of Eo- and Neo-himalayan granitoids, Eastern Tibet. <i>Journal of Asian Earth Sciences</i> , 2012, 58, 143-157.	2.3	60
86	The role of lower crust and continental upper mantle during formation of non-volcanic passive margins: evidence from the Alps. <i>Geological Society Special Publication</i> , 2001, 187, 267-288.	1.3	58
87	Chlorine and fluorine partitioning between apatite and sediment melt at 2.5 GPa, 800 Å°C: A new experimentally derived thermodynamic model. <i>American Mineralogist</i> , 2017, 102, 580-594.	1.9	57
88	Identification of growth mechanisms in metamorphic garnet by high-resolution trace element mapping with LA-ICP-TOFMS. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	57
89	Tracing the evolution of calc-alkaline magmas: In-situ Smâ€“Nd isotope studies of accessory minerals in the Bergell Igneous Complex, Italy. <i>Chemical Geology</i> , 2009, 260, 73-86.	3.3	56
90	Reconstruction of multiple P-T-t stages from retrogressed mafic rocks: Subduction versus collision in the Southern BrasÃlia orogen (SE Brazil). <i>Lithos</i> , 2017, 294-295, 283-303.	1.4	56

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91	Polyphase inclusions in the Shuanghe UHP eclogites formed by subsolidus transformation and incipient melting during exhumation of deeply subducted crust. <i>Lithos</i> , 2013, 177, 91-109.	1.4	55
92	Geodynamic cycles of subcontinental lithosphere in the Central Alps and the Arami enigma. <i>Journal of Geodynamics</i> , 2000, 30, 77-92.	1.6	54
93	Dating microstructures by the $^{40}\text{Ar}/^{39}\text{Ar}$ step-heating technique: Deformation–pressure–temperature–time history of the Penninic Units of the Western Alps. <i>Lithos</i> , 2009, 113, 801-819.	1.4	54
94	OH-bearing planar defects in olivine produced by the breakdown of Ti-rich humite minerals from Dabie Shan (China). <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 417-428.	3.1	52
95	Constraints on the thermal evolution of the Adriatic margin during Jurassic continental break-up: U–Pb dating of rutile from the Ivrea–Verbano Zone, Italy. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	50
96	The nature and origin of the Barrovian metamorphism, Scotland: diffusion length scales in garnet and inferred thermal time scales. <i>Journal of the Geological Society</i> , 2011, 168, 115-132.	2.1	49
97	Paleozoic to Triassic ocean opening and closure preserved in Central Iran: Constraints from the geochemistry of meta-igneous rocks of the Anarak area. <i>Lithos</i> , 2013, 172-173, 267-287.	1.4	49
98	Allanite behaviour during incipient melting in the southern Central Alps. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 433-458.	3.9	48
99	Geochemistry of ultrahigh-pressure anatexis: fractionation of elements in the Kokchetav gneisses during melting at diamond-facies conditions. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	48
100	Garnet oxygen analysis by SHRIMP-SI: Matrix corrections and application to high-pressure metasomatic rocks from Alpine Corsica. <i>Chemical Geology</i> , 2014, 374-375, 25-36.	3.3	48
101	The Interplay between Melting, Refertilization and Carbonatite Metasomatism in Off-Cratonic Lithospheric Mantle under Zealandia: an Integrated Major, Trace and Platinum Group Element Study. <i>Journal of Petrology</i> , 2015, 56, 563-604.	2.8	48
102	Age and thermal history of Eo- and Neohimalayan granitoids, eastern Himalaya. <i>Journal of Asian Earth Sciences</i> , 2012, 51, 85-97.	2.3	47
103	Halogens and noble gases in serpentinites and secondary peridotites: Implications for seawater subduction and the origin of mantle neon. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 285-304.	3.9	47
104	Using In Situ Trace-Element Determinations to Monitor Partial-Melting Processes in Metabasites. <i>Journal of Petrology</i> , 2005, 46, 1283-1308.	2.8	45
105	Experimental study of trace element release during ultrahigh-pressure serpentinite dehydration. <i>Earth and Planetary Science Letters</i> , 2014, 391, 296-306.	4.4	45
106	Frozen melt–rock reaction in a peridotite xenolith from sub-arc mantle recorded by diffusion of trace elements and water in olivine. <i>Earth and Planetary Science Letters</i> , 2015, 422, 169-181.	4.4	44
107	Mineral-scale Trace Element and U-Th-Pb Age Constraints on Metamorphism and Melting during the Petermann Orogeny (Central Australia). <i>Journal of Petrology</i> , 2009, 50, 251-287.	2.8	41
108	An experimental investigation of Ca–O–H fluid-driven carbonation of serpentinites under forearc conditions. <i>Earth and Planetary Science Letters</i> , 2018, 496, 178-188.	4.4	41

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109	Deformation mode switches in the Penninic units of the Urtier Valley (Western Alps): Evidence for a dynamic orogen. <i>Journal of Structural Geology</i> , 2008, 30, 194-219.	2.3	39
110	Recrystallization rims in zircon (Valle d'Arbedo, Switzerland): An integrated cathodoluminescence, LA-ICP-MS, SHRIMP, and TEM study. <i>American Mineralogist</i> , 2012, 97, 369-377.	1.9	39
111	Experimental Phase Relations in Altered Oceanic Crust: Implications for Carbon Recycling at Subduction Zones. <i>Journal of Petrology</i> , 2018, 59, 299-320.	2.8	39
112	The role of trace elements in controlling H incorporation in San Carlos olivine. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	39
113	Titanian andradite in a metapyroxenite layer from the Malenco ultramafics (Italy): implications for Ti-mobility and low oxygen fugacity. <i>Contributions To Mineralogy and Petrology</i> , 1994, 116, 156-168.	3.1	38
114	Evidence for multi-stage metasomatism of chlorite-amphibole peridotites (Ulten Zone, Italy): Constraints from trace element compositions of hydrous phases. <i>Lithos</i> , 2007, 99, 85-104.	1.4	37
115	Hafnium isotopes and Zr/Hf of rutile and zircon from lower crustal metapelites (Ivrea-Verbano Zone, Italy). <i>Contributions To Mineralogy and Petrology</i> , 2007, 159, 106-118.	4.4	37
116	The timing of sub-solidus hydrothermal alteration in the Central Zone, Limpopo Belt (South Africa): Constraints from titanite U-Pb geochronology and REE partitioning. <i>Lithos</i> , 2007, 98, 97-117.	1.4	36
117	Contrasting P-T paths within the Barchi-Kol UHP terrain (Kokchetav Complex): Implications for subduction and exhumation of continental crust. <i>American Mineralogist</i> , 2016, 101, 788-807.	1.9	36
118	Evidence for Late Carboniferous subduction-type magmatism in mafic-ultramafic cumulates of the SW Tauern window (Eastern Alps). <i>Contributions To Mineralogy and Petrology</i> , 2002, 142, 449-464.	3.1	35
119	Substitution and diffusion of Cr ²⁺ and Cr ³⁺ in synthetic forsterite and natural olivine at 1200-1500°C and 1-10 bar. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 407-428.	3.9	35
120	Carbonation of Cl-rich scapolite boudins in Skallen, East Antarctica: evidence for changing fluid condition in the continental crust. <i>Journal of Metamorphic Geology</i> , 2006, 24, 241-261.	3.4	34
121	The influence of oceanic oxidation on serpentinite dehydration during subduction. <i>Earth and Planetary Science Letters</i> , 2018, 499, 173-184.	4.4	34
122	The responses of the four main substitution mechanisms of H in olivine to H ₂ O activity at 1050°C and 3 ÅGPa. <i>Progress in Earth and Planetary Science</i> , 2017, 4, .	3.0	33
123	In situ measurement of hafnium isotopes in rutile by LA-MC-ICPMS: Protocol and applications. <i>Chemical Geology</i> , 2011, 281, 72-82.	3.3	32
124	Diffusion of Ti and some Divalent Cations in Olivine as a Function of Temperature, Oxygen Fugacity, Chemical Potentials and Crystal Orientation. <i>Journal of Petrology</i> , 2016, 57, 1983-2010.	2.8	32
125	The effect of fluorine and chlorine on trace element partitioning between apatite and sediment melt at subduction zone conditions. <i>Chemical Geology</i> , 2017, 473, 55-73.	3.3	32
126	Hydrogen diffusion in Ti-doped forsterite and the preservation of metastable point defects. <i>American Mineralogist</i> , 2016, 101, 1571-1583.	1.9	31

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127	Timescales between mantle metasomatism and kimberlite ascent indicated by diffusion profiles in garnet crystals from peridotite xenoliths. <i>Earth and Planetary Science Letters</i> , 2018, 481, 143-153.	4.4	31
128	Geochronology of accessory allanite and monazite in the Barrovian metamorphic sequence of the Central Alps, Switzerland. <i>Lithos</i> , 2017, 286-287, 502-518.	1.4	30
129	Primary crustal melt compositions: Insights into the controls, mechanisms and timing of generation from kinetics experiments and melt inclusions. <i>Lithos</i> , 2017, 286-287, 454-479.	1.4	29
130	Amphibole and phlogopite in "hybrid" metasomatic bands monitor trace element transfer at the interface between felsic and ultramafic rocks (Eastern Alps, Italy). <i>Lithos</i> , 2010, 117, 135-148.	1.4	28
131	Identification of hydrogen defects linked to boron substitution in synthetic forsterite and natural olivine. <i>American Mineralogist</i> , 2014, 99, 2138-2141.	1.9	28
132	The importance of defining chemical potentials, substitution mechanisms and solubility in trace element diffusion studies: the case of Zr and Hf in olivine. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	28
133	Coupled inter-site reaction and diffusion: Rapid dehydrogenation of silicon vacancies in natural olivine. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 262, 220-242.	3.9	26
134	Episodic formation of Neotethyan ophiolites (Tibetan plateau): Snapshots of abrupt global plate reorganizations during major episodes of supercontinent breakup?. <i>Earth-Science Reviews</i> , 2020, 203, 103144.	9.1	26
135	FTIR spectroscopy of Ti-chondrodite, Ti-clinohumite, and olivine in deeply subducted serpentinites and implications for the deep water cycle. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	25
136	The Molybdenum isotope subduction recycling conundrum: A case study from the Tongan subduction zone, Western Alps and Alpine Corsica. <i>Chemical Geology</i> , 2021, 576, 120231.	3.3	25
137	Mineral solubility and hydrous melting relations in the deep earth: Analysis of some binary A H ₂ O system pressure-temperature-composition topologies. <i>Numerische Mathematik</i> , 2007, 307, 833-855.	1.4	24
138	Generation and Modification of the Mantle Wedge and Lithosphere beneath the West Bismarck Island Arc: Melting, Metasomatism and Thermal History of Peridotite Xenoliths from Ritter Island. <i>Journal of Petrology</i> , 2017, 58, 1475-1510.	2.8	24
139	Experimental constraints on hydrogen diffusion in garnet. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	24
140	In-situ U-Pb dating and Nd isotopic analysis of perovskite from a rodingite blackwall associated with UHP serpentinite from southwestern Tianshan, China. <i>Chemical Geology</i> , 2016, 431, 67-82.	3.3	22
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