

# Eric Hellebrand

## List of Publications by Year in descending order

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59  
papers

4,568  
citations

126907

33  
h-index

133252

59  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3664  
citing authors

#	ARTICLE	IF	CITATIONS
1	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	563
2	Coupled major and trace elements as indicators of the extent of melting in mid-ocean-ridge peridotites. <i>Nature</i> , 2001, 410, 677-681.	27.8	528
3	Garnet-field Melting and Late-stage Refertilization in 'Residual' Abyssal Peridotites from the Central Indian Ridge. <i>Journal of Petrology</i> , 2002, 43, 2305-2338.	2.8	321
4	Oceanic core complexes and crustal accretion at slow-spreading ridges. <i>Geology</i> , 2007, 35, 623.	4.4	302
5	Ancient, highly heterogeneous mantle beneath Gakkel ridge, Arctic Ocean. <i>Nature</i> , 2008, 452, 311-316.	27.8	288
6	Diffusion-limited REE uptake by eclogite garnets and its consequences for Lu-Hf and Sm-Nd geochronology. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 703-720.	3.1	194
7	Geochemistry of a long in-situ section of intrusive slow-spread oceanic lithosphere: Results from IODP Site U1309 (Atlantis Massif, 30°N Mid-Atlantic-Ridge). <i>Earth and Planetary Science Letters</i> , 2009, 279, 110-122.	4.4	144
8	Abyssal peridotite Hf isotopes identify extreme mantle depletion. <i>Earth and Planetary Science Letters</i> , 2011, 308, 359-368.	4.4	143
9	Clinopyroxene in postshield Haleakala ankaramite: 2. Texture, compositional zoning and supersaturation in the magma. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	115
10	Phosphorus zoning reveals dendritic architecture of olivine. <i>Geology</i> , 2014, 42, 867-870.	4.4	97
11	Trace element distribution between orthopyroxene and clinopyroxene in peridotites from the Gakkel Ridge: a SIMS and NanoSIMS study. <i>Contributions To Mineralogy and Petrology</i> , 2005, 150, 486-504.	3.1	95
12	Significance of large, refractory dunite bodies in the upper mantle of the Bay of Islands Ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	92
13	Stacked gabbro units and intervening mantle: A detailed look at a section of IODP Leg 305, Hole U1309D. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	91
14	Magmatic filtering of mantle compositions at mid-ocean-ridge volcanoes. <i>Nature Geoscience</i> , 2009, 2, 321-328.	12.9	91
15	HETEROGENEOUS DISTRIBUTION OF <sup>26</sup> Al AT THE BIRTH OF THE SOLAR SYSTEM. <i>Astrophysical Journal Letters</i> , 2011, 733, L31.	8.3	88
16	Mantle melting beneath Gakkel Ridge (Arctic Ocean): abyssal peridotite spinel compositions. <i>Chemical Geology</i> , 2002, 182, 227-235.	3.3	87
17	Trace element zoning in pyroxenes from ODP Hole 735B gabbros: diffusive exchange or synkinematic crystal fractionation?. <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 429-442.	3.1	77
18	Deep melting and sodic metasomatism underneath the highly oblique-spreading Lena Trough (Arctic) Tj ETQq0 0 0 rBT /Overlock 10 Tf	4.4	73

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19	Non-chondritic HSE budget in Earth's upper mantle evidenced by abyssal peridotites from Gakkel ridge (Arctic Ocean). <i>Earth and Planetary Science Letters</i> , 2009, 283, 122-132.	4.4	72
20	Heterogeneous distribution of $^{26}\text{Al}$ at the birth of the solar system: Evidence from refractory grains and inclusions. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1948-1979.	1.6	71
21	Constraints from Os-isotope variations on the origin of Lena Trough abyssal peridotites and implications for the composition and evolution of the depleted upper mantle. <i>Earth and Planetary Science Letters</i> , 2014, 403, 178-187.	4.4	71
22	Diversity of melt conduits in the Izu-Bonin-Mariana forearc mantle: Implications for the earliest stage of arc magmatism. <i>Geology</i> , 2011, 39, 411-414.	4.4	70
23	Clinopyroxene in postshield Haleakala ankaramite: 1. Efficacy of thermobarometry. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	68
24	Phase transition in BCx system under high-pressure and high-temperature: Synthesis of cubic dense BC3 nanostructured phase. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	67
25	Protracted timescales of lower crustal growth at the fast-spreading East Pacific Rise. <i>Nature Geoscience</i> , 2012, 5, 275-278.	12.9	56
26	Variations in the O-isotope composition of gas during the formation of chondrules from the CR chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 50-74.	3.9	55
27	Hydrogen incorporation and charge balance in natural zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 472-486.	3.9	54
28	The duration of prograde garnet crystallization in the UHP eclogites at Lago di Cignana, Italy. <i>Earth and Planetary Science Letters</i> , 2009, 287, 402-411.	4.4	51
29	Heterogeneous distribution of $^{26}\text{Al}$ at the birth of the Solar System: Evidence from corundum-bearing refractory inclusions in carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 190-215.	3.9	42
30	Trace element fractionation during high-grade metamorphism and crustal melting—constraints from ion microprobe data of metapelitic, migmatitic and igneous garnets and implications for Sm–Nd garnet chronology. <i>Lithos</i> , 2006, 87, 193-213.	1.4	40
31	Fluid-present melting of meta-igneous rocks and the generation of leucogranites—Constraints from garnet major- and trace element data, Lu–Hf whole rock—garnet ages and whole rock Nd–Sr–Hf–O isotope data. <i>Lithos</i> , 2009, 111, 220-235.	1.4	37
32	Phosphorus and aluminum zoning in olivine: contrasting behavior of two nominally incompatible trace elements. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	37
33	Conduit- to Localized-scale Degassing during Plinian Eruptions: Insights from Major Element and Volatile (Cl and H <sub>2</sub> O) Analyses within Vesuvius AD 79 Pumice. <i>Journal of Petrology</i> , 2014, 55, 315-344.	2.8	35
34	Discovery of whitlockite in mantle xenoliths: Inferences for water- and halogen-poor fluids and trace element residence in the terrestrial upper mantle. <i>Earth and Planetary Science Letters</i> , 2006, 244, 201-217.	4.4	34
35	Hydrogen bond symmetrization and equation of state of phase D. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	29
36	Geochemical Composition of K-rich Lavas from the Lena Trough (Arctic Ocean). <i>Journal of Petrology</i> , 2011, 52, 1185-1206.	2.8	24

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37	Textural, geochronological and chemical constraints from polygenetic titanite and monogenetic apatite from a mid-crustal shear zone: An integrated EPMA, SIMS, and TIMS study. <i>Chemical Geology</i> , 2007, 241, 88-107.	3.3	22
38	An alternative model for silica enrichment in the Kaapvaal subcontinental lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6894-6917.	3.9	21
39	High-pressure Reactive Melt Stagnation Recorded in Abyssal Pyroxenites from the Ultraslow-spreading Lena Trough, Arctic Ocean. <i>Journal of Petrology</i> , 2014, 55, 427-458.	2.8	21
40	Tectonic, diapiric and sedimentary chaotic rocks of the Rakhine coast, western Myanmar. <i>Gondwana Research</i> , 2019, 74, 126-143.	6.0	20
41	Oxygen isotope and chemical compositions of magnetite and olivine in the anomalous CK3 Watson 002 and ungrouped Asuka-881595 carbonaceous chondrites: Effects of parent body metamorphism. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1456-1474.	1.6	19
42	Formation of the high pressure graphite and BC <sub>8</sub> phases in a cold compression experiment by Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1596-1602.	2.5	18
43	Magmatic and hydrothermal activity in Lena Trough, Arctic Ocean. <i>Eos</i> , 2001, 82, 193-193.	0.1	17
44	Elastic characterization of platinum/rhodium alloy at high temperature by combined laser heating and laser ultrasonic techniques. <i>Ultrasonics</i> , 2014, 54, 963-966.	3.9	17
45	Oblique nonvolcanic seafloor spreading in Lena Trough, Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	15
46	Cryogenic Minerals in Hawaiian Lava Tubes: A Geochemical and Microbiological Exploration. <i>Geomicrobiology Journal</i> , 2018, 35, 227-241.	2.0	15
47	The P-T paths of high-grade gneisses, Kaoko Belt, Namibia: Constraints from mineral data, U-Pb allanite and monazite and Sm-Nd/Lu-Hf garnet ages and garnet ion probe data. <i>Gondwana Research</i> , 2014, 25, 775-796.	6.0	14
48	Olivine-wadsleyite-pyroxene topotaxy: Evidence for coherent nucleation and diffusion-controlled growth at the 410-km discontinuity. <i>Physics of the Earth and Planetary Interiors</i> , 2012, 200-201, 85-91.	1.9	13
49	Crystallochemistry and origin of pyroxenes in komatiites. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 599-617.	3.1	12
50	Potential for Tufa Precipitation from Crushed Concrete Containing Coarse Basaltic and Fine Coralline Sand Aggregates. <i>Environmental and Engineering Geoscience</i> , 2011, 17, 53-66.	0.9	10
51	Chemical heterogeneities reveal early rapid cooling of Apollo Troctolite 76535. <i>Nature Communications</i> , 2021, 12, 7054.	12.8	8
52	Incipient melt segregation as preserved in subaqueous pyroclasts. <i>Geology</i> , 2012, 40, 355-358.	4.4	6
53	Extensive Magmatic Heating of the Lithosphere Beneath the Hawaiian Islands Inferred From Salt Lake Crater Mantle Xenoliths. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009359.	2.5	4
54	Intracrystalline melt migration in deformed olivine revealed by trace element compositions and polyphase solid inclusions. <i>European Journal of Mineralogy</i> , 2021, 33, 463-477.	1.3	4

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55	Celestine discovered in Hawaiian basalts. <i>American Mineralogist</i> , 2020, 105, 52-57.	1.9	2
56	Geochemistry of ultramafic and mafic rocks from the northern Central Asian Orogenic Belt (Tuva,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 intra-oceanic subduction. <i>Precambrian Research</i> , 2021, 356, 106061.	2.7	2
57	A Study in Blue: Secondary Copper-Rich Minerals and Their Associated Bacterial Diversity in Icelandic Lava Tubes. <i>Earth and Space Science</i> , 2022, 9, .	2.6	2
58	Volcanic glass at Kualoa, Oâ€ahu, Hawaiian Islands: Paired technological and geochemical sourcing analyses of an expedient tool industry. <i>Journal of Archaeological Science: Reports</i> , 2020, 30, 102117.	0.5	1
59	Peridotite. , 2014, , 1-2.		0