## Florian Heidelbach

List of Publications by Year in descending order

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430874 1,221 27 18 citations h-index papers

g-index 27 27 27 1181 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Lower-mantle water reservoir implied by the extreme stability of a hydrous aluminosilicate. Nature Geoscience, 2015, 8, 75-79.	12.9	173
2	Shear deformation experiments of forsterite at $11~\mathrm{GPa}$ - $1400\mathrm{C}$ in the multianvil apparatus. European Journal of Mineralogy, 2004, $16,877-889$ .	1.3	145
3	Analysis of the Native Structure of Starch Granules with X-ray Microfocus Diffraction. Macromolecules, 1997, 30, 3813-3820.	4.8	125
4	The role of dynamic recrystallization in the development of lattice preferred orientations in experimentally deformed quartz aggregates. Journal of Structural Geology, 1993, 15, 1145-1168.	2.3	98
5	The origin of reaction textures in mantle peridotite xenoliths from Sal Island, Cape Verde: the case for "metasomatism―by the host lava. Contributions To Mineralogy and Petrology, 2006, 151, 681-697.	3.1	87
6	Crystallographic preferred orientation in albite samples deformed experimentally by dislocation and solution precipitation creep. Journal of Structural Geology, 2000, 22, 1649-1661.	2.3	69
7	Dislocation creep of magnesiowüstite (Mg0.8Fe0.2O). Earth and Planetary Science Letters, 2001, 194, 229-240.	4.4	62
8	Shear zone evolution and timing of deformation in the Neoproterozoic transpressional Dom Feliciano Belt, Uruguay. Journal of Structural Geology, 2016, 92, 59-78.	2.3	61
9	Compositional re-equilibration of garnet: the importance of sub-grain boundaries. European Journal of Mineralogy, 2007, 19, 431-438.	1.3	53
10	Dynamic recrystallization of garnet and related diffusion processes. Journal of Structural Geology, 2008, 30, 777-790.	2.3	43
11	Superplasticity in garnet from eclogite facies shear zones in the Haram Gabbro, HaramsÃ,ya, Norway. Geology, 2004, 32, 281.	4.4	39
12	Large-strain deformation and strain partitioning in polyphase rocks: Dislocation creep of olivine–magnesiowýstite aggregates. Tectonophysics, 2006, 427, 115-132.	2.2	35
13	Grain size effect on the electrical conductivity of clinopyroxene. Contributions To Mineralogy and Petrology, 2012, 163, 939-947.	3.1	29
14	Texture development of polycrystalline anhydrite experimentally deformed in torsion. International Journal of Earth Sciences, 2001, 90, 118-126.	1.8	27
15	Microstructure evolution and recrystallization during creep of MgO single crystals. Acta Materialia, 2009, 57, 1886-1898.	7.9	25
16	Deformation inside a paleosubduction channel – Insights from microstructures and crystallographic preferred orientations of eclogites and metasediments from the Tauern Window, Austria. Journal of Structural Geology, 2016, 82, 60-79.	2.3	25
17	Evolution of the Major Gercino Shear Zone in the Dom Feliciano Belt, South Brazil, and implications for the assembly of southwestern Gondwana. International Journal of Earth Sciences, 2019, 108, 403-425.	1.8	25
18	The structure of a super-aluminous version of the dense hydrous-magnesium silicate phase D. American Mineralogist, 2010, 95, 1113-1116.	1.9	24

#	Article	IF	CITATIONS
19	Dating recurrent shear zone activity and the transition from ductile to brittle deformation: White mica geochronology applied to the Neoproterozoic Dom Feliciano Belt in South Brazil. Journal of Structural Geology, 2020, 141, 104199.	2.3	18
20	Dendritic crystallization in hydrous basaltic magmas controls magma mobility within the Earthâ $\in$ <sup>™</sup> s crust. Nature Communications, 2022, 13, .	12.8	17
21	Electron channelling contrast imaging of individual dislocations in geological materials using a field-emission scanning electron microscope equipped with an EBSD system. European Journal of Mineralogy, 2018, 30, 5-15.	1.3	10
22	Magnetic fabrics in the Bjerkreim Sokndal Layered Intrusion, Rogaland, southern Norway: Mineral sources and geological significance. Tectonophysics, 2016, 688, 101-118.	2.2	9
23	Fluid-assisted fracturing, cataclasis, and resulting plastic flow in mylonites from the Moresby Seamount detachment, Woodlark Basin. Journal of Structural Geology, 2013, 56, 156-171.	2.3	8
24	Inherited Fabric in an Omphacite Symplectite: Reconstruction of Plastic Deformation under Ultra-High Pressure Conditions. Microscopy and Microanalysis, 2013, 19, 942-949.	0.4	4
25	Combining ECCI and FIB milling techniques to prepare site-specific TEM samples for crystal defect analysis of deformed minerals at high pressure. Comptes Rendus - Geoscience, 2019, 351, 295-301.	1.2	4
26	Origin of twist in 'gwindel' quartz crystals from the Alps: a transmission electron microscopy study. European Journal of Mineralogy, 2013, 25, 145-153.	1.3	3
27	MATERIALS SCIENCE: Watching Grains Deform. Science, 2001, 291, 2330-2331.	12.6	3