

# Misha Bystricky

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,232  
citations

643344

15  
h-index

536525

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Equation of state and sound wave velocities of fayalite at high pressures and temperatures: implications for the seismic properties of the martian mantle. <i>European Journal of Mineralogy</i> , 2021, 33, 519-535.	0.4	2
2	Textural evolution of metallic phases in a convecting magma ocean: A 3D microtomography study. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 319, 106771.	0.7	2
3	Reevaluation of metal interconnectivity in a partially molten silicate matrix using 3D microtomography. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 308, 106571.	0.7	2
4	Crystal clustering in magmas: Insights from HP-HT experiments. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 574-585.	0.4	2
5	Bulk modulus of Fe-rich olivines corrected for non-hydrostaticity. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 86-94.	0.4	5
6	Transport of Volatile-rich Melt from the Mantle Transition Zone via Compaction Pockets: Implications for Mantle Metasomatism and the Origin of Alkaline Lavas in the Turkish-Iranian Plateau. <i>Journal of Petrology</i> , 2018, 59, 2273-2310.	1.1	24
7	Elastic flexure controls magma trajectories and explains the offset of primary volcanic activity upstream of mantle plume axis at the Réunion and Hawaii hotspot islands. <i>Earth and Planetary Science Letters</i> , 2017, 462, 142-156.	1.8	5
8	Strength of fayalite up to 8.5 GPa. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 403-417.	0.3	1
9	High-temperature deformation of enstatite aggregates. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6384-6400.	1.4	26
10	Effect of pressure on the strength of olivine at room temperature. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 259, 34-44.	0.7	15
11	Temperature dependent grain growth of forsterite-nickel mixtures: Implications for grain growth in two-phase systems and applications to the H-chondrite parent body. <i>Earth and Planetary Science Letters</i> , 2016, 443, 20-31.	1.8	6
12	Grain growth in forsterite-nickel mixtures: Analogues of small parent bodies during early accretion. <i>Physics of the Earth and Planetary Interiors</i> , 2012, 204-205, 37-51.	0.7	8
13	Dense fine-grained aggregates prepared by spark plasma sintering (SPS), an original technique in experimental petrology. <i>European Journal of Mineralogy</i> , 2011, 23, 323-331.	0.4	14
14	Development of Fluid Veins during Deformation of Fluid-rich Rocks close to the Brittle-Ductile Transition: Comparison between Experimental and Physical Models. <i>Journal of Petrology</i> , 2010, 51, 2047-2066.	1.1	6
15	A simultaneous deformation and diffusion experiment: Quantifying the role of deformation in enhancing metamorphic reactions. <i>Earth and Planetary Science Letters</i> , 2009, 278, 386-394.	1.8	16
16	Use of the spark plasma sintering technique for the synthesis of dense mineral aggregates suitable for high-pressure experiments. <i>High Pressure Research</i> , 2009, 29, 630-634.	0.4	7
17	Experimental investigation of magma rheology at 300 MPa: From pure hydrous melt to 76 vol.% of crystals. <i>Earth and Planetary Science Letters</i> , 2008, 267, 571-583.	1.8	94
18	Microstructures and rheology of hydrous synthetic magmatic suspensions deformed in torsion at high pressure. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	31

#	ARTICLE	IF	CITATIONS
19	Extreme dynamic weakening of faults during dehydration by coseismic shear heating. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	135
20	Semi-brittle flow during dehydration of lizardite–chrysotile serpentinite deformed in torsion: Implications for the rheology of oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , 2006, 249, 484-493.	1.8	27
21	Large-strain deformation and strain partitioning in polyphase rocks: Dislocation creep of olivine–magnesiowüstite aggregates. <i>Tectonophysics</i> , 2006, 427, 115-132.	0.9	35
22	Fe–Mg Interdiffusion in (Mg,Fe)O. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 418-425.	0.3	47
23	Strain localisation in bimineralic rocks: Experimental deformation of synthetic calcite–anhydrite aggregates. <i>Earth and Planetary Science Letters</i> , 2005, 240, 748-763.	1.8	49
24	Post-deformational annealing of calcite rocks. <i>Tectonophysics</i> , 2005, 403, 167-191.	0.9	47
25	The role of recrystallisation on the deformation behaviour of calcite rocks: large strain torsion experiments on Carrara marble. <i>Journal of Structural Geology</i> , 2004, 26, 885-903.	1.0	153
26	Granular flow and Riedel band formation in water-rich quartz aggregates experimentally deformed in torsion. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	42
27	GEOPHYSICS: Mantle Flow Revisited. <i>Science</i> , 2003, 301, 1190-1191.	6.0	1
28	Creep of dry clinopyroxene aggregates. <i>Journal of Geophysical Research</i> , 2001, 106, 13443-13454.	3.3	118
29	Microstructures and lattice preferred orientations in experimentally deformed clinopyroxene aggregates. <i>Journal of Structural Geology</i> , 2000, 22, 1633-1648.	1.0	63
30	High Shear Strain of Olivine Aggregates: Rheological and Seismic Consequences. , 2000, 290, 1564-1567.		249