

Robert Myhill

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

799
citations

758635

12
h-index

580395

25
g-index

29
all docs

29
docs citations

29
times ranked

962
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. <i>Nature Geoscience</i> , 2020, 13, 213-220.	5.4	207
2	Lower-mantle water reservoir implied by the extreme stability of a hydrous aluminosilicate. <i>Nature Geoscience</i> , 2015, 8, 75-79.	5.4	173
3	Pre-mission InSights on the Interior of Mars. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	85
4	The importance of grain size to mantle dynamics and seismological observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3034-3061.	1.0	57
5	Resonances and Lander Modes Observed by InSight on Mars (1â€“9ÂˆHz). <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2924-2950.	1.1	30
6	Slab buckling and its effect on the distributions and focal mechanisms of deep-focus earthquakes. <i>Geophysical Journal International</i> , 2013, 192, 837-853.	1.0	28
7	Slab morphology and deformation beneath Izu-Bonin. <i>Nature Communications</i> , 2019, 10, 1310.	5.8	27
8	On the Pâ€“Tâ€“ fO_2 stability of Fe ₄ O ₅ , Fe ₅ O ₆ and Fe ₄ O ₅ -rich solid solutions. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	1.2	23
9	Seismic Coupling of Short-Period Wind Noise Through Marsâ€™ Regolith for NASAâ€™s InSight Lander. <i>Space Science Reviews</i> , 2017, 211, 485-500.	3.7	20
10	Geometry and Segmentation of Cerberus Fossae, Mars: Implications for Marsquake Properties. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	20
11	Flexible Mode Modelling of the InSight Lander and Consequences for the SEIS Instrument. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	16
12	Hydrous melting and partitioning in and above the mantle transition zone: Insights from water-rich MgOâ€“SiO ₂ â€“H ₂ O experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 408-421.	1.6	15
13	Melting phase relations in the systems Mg ₂ SiO ₄ â€“H ₂ O and MgSiO ₃ â€“H ₂ O and the formation of hydrous melts in the upper mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 68-82.	1.6	12
14	Fault plane orientations of deep earthquakes in the Izuâ€“Boninâ€“Marianas subduction zone. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
15	Dehydration Melting Below the Undersaturated Transition Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008712.	1.0	11
16	The morphology, evolution and seismic visibility of partial melt at the coreâ€“mantle boundary: implications for ULVZs. <i>Geophysical Journal International</i> , 2021, 227, 1028-1059.	1.0	11
17	The elastic solid solution model for minerals at high pressures and temperatures. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 12.	1.2	8
18	Effect of Fe ³⁺ on Phase Relations in the Lower Mantle: Implications for Redox Melting in Stagnant Slabs. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12484-12497.	1.4	8

#	ARTICLE	IF	CITATIONS
19	An internally consistent pressure calibration of geobarometers applicable to the Earth's upper mantle using in situ XRD. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 421-435.	1.6	7
20	Near-Field Seismic Propagation and Coupling Through Mars' Regolith: Implications for the InSight Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	7
21	The Site Tilt and Lander Transfer Function from the Short-Period Seismometer of InSight on Mars. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2889-2908.	1.1	7
22	Notes on the creation and manipulation of solid solution models. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	4
23	An anisotropic equation of state for high-pressure, high-temperature applications. <i>Geophysical Journal International</i> , 2022, 231, 230-242.	1.0	2