

Yuming Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

640
citations

933447

10
h-index

1199594

12
g-index

12
all docs

12
docs citations

12
times ranked

754
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin state of ferric iron in MgSiO ₃ perovskite and its effect on elastic properties. Earth and Planetary Science Letters, 2010, 289, 68-75.	4.4	129
2	Amorphous Diamond: A High-Pressure Superhard Carbon Allotrope. Physical Review Letters, 2011, 107, 175504.	7.8	127
3	Hydrogen-bearing iron peroxide and the origin of ultralow-velocity zones. Nature, 2017, 551, 494-497.	27.8	113
4	Effects of the Fe ³⁺ spin transition on the properties of aluminous perovskite—New insights for lower-mantle seismic heterogeneities. Earth and Planetary Science Letters, 2011, 310, 293-302.	4.4	84
5	Electronic spin states of ferric and ferrous iron in the lower-mantle silicate perovskite. American Mineralogist, 2012, 97, 592-597.	1.9	58
6	Spin and valence states of iron in Al-bearing silicate glass at high pressures studied by synchrotron Mossbauer and X-ray emission spectroscopy. American Mineralogist, 2014, 99, 415-423.	1.9	35
7	Valence and spin states of iron are invisible in Earth's lower mantle. Nature Communications, 2018, 9, 1284.	12.8	35
8	Oxygen Quadclusters in SiO ₂ Glass above Megabar Pressures up to 160 GPa Revealed by X-Ray Raman Scattering. Physical Review Letters, 2019, 123, 235701.	7.8	22
9	Structural Transitions in MgSiO ₃ Glasses and Melts at the Core-Mantle Boundary Observed via Inelastic X-ray Scattering. Geophysical Research Letters, 2019, 46, 13756-13764.	4.0	13
10	Structure of shock compressed model basaltic glass: Insights from O K-edge X-ray Raman scattering and high-resolution Al NMR spectroscopy. Geophysical Research Letters, 2012, 39, .	4.0	12
11	Synthesis, Elasticity, and Spin State of an Intermediate MgSiO ₃ -FeAlO ₃ Bridgmanite: Implications for Iron in Earth's Lower Mantle. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019964.	3.4	6
12	Pressure-Driven Changes in the Electronic Bonding Environment of GeO ₂ Glass above Megabar Pressures. Journal of the American Chemical Society, 2022, 144, 10025-10033.	13.7	6