Liang Yuan

List of Publications by Year
in descending order

12	226	1307594 7	1199594 12
papers	citations	h-index	g-index

12	12	12	257
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemical Reactions Between Fe and H₂O up to Megabar Pressures and Implications for Water Storage in the Earth's Mantle and Core. Geophysical Research Letters, 2018, 45, 1330-1338.	4.0	42
2	Interstitial hydrogen atoms in face-centered cubic iron in the Earthâ€™s core. Scientific Reports, 2019, 9, 7108.	3.3	42
3	Sharp 660-km discontinuity controlled by extremely narrow binary post-spinel transition. Nature Geoscience, 2019, 12, 869-872.	12.9	31
4	Strong Sequestration of Hydrogen Into the Earth's Core During Planetary Differentiation. Geophysical Research Letters, 2020, 47, e2020GL088303.	4.0	31
5	Complete agreement of the post-spinel transition with the 660-km seismic discontinuity. Scientific Reports, 2018, 8, 6358.	3.3	27
6	Fate of water transported into the deep mantle by slab subduction. Journal of Asian Earth Sciences, 2018, 167, 2-10.	2.3	20
7	Structure and Density of H₂Oâ€Rich Mg₂SiO₄ Melts at High Pressure From Ab Initio Simulations. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020365.	3.4	10
8	Novel High-Pressure Yttrium Carbide Î³â€™Y4C5 Containing [C2] and Nonlinear [C3] Units with Unusually Large Formal Charges. Physical Review Letters, 2021, 127, 135501.	7.8	6
9	The Helium Elemental and Isotopic Compositions of the Earth's Core Based on Ab Initio Simulations. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB023106.	3.4	6
10	Interaction Between FeOOH and NaCl at Extreme Conditions: Synthesis of Novel Na2FeCl4OHx Compound. Minerals (Basel, Switzerland), 2020, 10, 51.	2.0	5
11	The stability of anhydrous phase B, Mg14Si5O24, at mantle transition zone conditions. Physics and Chemistry of Minerals, 2018, 45, 523-531.	0.8	3
12	Possible Control of Earth's Boron Budget by Metallic Iron. Geophysical Research Letters, 2022, 49, .	4.0	3