Yun Liu

List of Publications by Year
in descending order

46	1,100	394421	395702
papers	citations	19 h-index	33 g-index

46	46	46	1005
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ab initio molecular orbital calculations for boron isotope fractionations on boric acids and borates. Geochimica Et Cosmochimica Acta, 2005, 69, 3995-4006.	3.9	150
2	Equilibrium mass-dependent fractionation relationships for triple oxygen isotopes. Geochimica Et Cosmochimica Acta, 2011, 75, 7435-7445.	3.9	109
3	On the proper use of the Bigeleisenâ€“Mayer equation and corrections to it in the calculation of isotopic fractionation equilibrium constants. Geochimica Et Cosmochimica Acta, 2010, 74, 6965-6983.	3.9	81
4	Theoretical prediction for several important equilibrium Ge isotope fractionation factors and geological implications. Earth and Planetary Science Letters, 2009, 287, 1-11.	4.4	72
5	First-principles investigation of vanadium isotope fractionation in solution and during adsorption. Earth and Planetary Science Letters, 2015, 426, 216-224.	4.4	58
6	Equilibrium Se isotope fractionation parameters: A first-principles study. Earth and Planetary Science Letters, 2011, 304, 113-120.	4.4	57
7	Mechanism for the dissolution of olivine series minerals in acidic solutions. American Mineralogist, 2006, 91, 455-458.	1.9	50
8	First-principles study of Ge isotope fractionation during adsorption onto Fe(III)-oxyhydroxide surfaces. Chemical Geology, 2010, 278, 15-22.	3.3	46
9	Theoretical estimation of the equilibrium distribution of clumped isotopes in nature. Geochimica Et Cosmochimica Acta, 2012, 77, 292-303.	3.9	44
10	Theoretical calibration of the triple oxygen isotope thermometer. Geochimica Et Cosmochimica Acta, 2018, 235, 237-245.	3.9	43
11	Equilibrium Mg isotope fractionation among aqueous Mg2+, carbonates, brucite and lizardite: Insights from first-principles molecular dynamics simulations. Geochimica Et Cosmochimica Acta, 2019, 250, 117-129.	3.9	40
12	Theoretical calculation of equilibrium Mg isotope fractionations between minerals and aqueous solutions. Chemical Geology, 2018, 488, 62-75.	3.3	36
13	Clumped-isotope signatures at equilibrium of CH4, NH3, H2O, H2S and SO2. Geochimica Et Cosmochimica Acta, 2016, 175, 252-270.	3.9	34
14	Molecular-level mechanisms of quartz dissolution under neutral and alkaline conditions in the presence of electrolytes. Geochemical Journal, 2014, 48, 189-205.	1.0	28
15	Nuclear volume effects in equilibrium stable isotope fractionations of mercury, thallium and lead. Scientific Reports, 2015, 5, 12626.	3.3	28
16	A theoretical model of isotopic fractionation by thermal diffusion and its implementation on silicate melts. Geochimica Et Cosmochimica Acta, 2015, 154, 18-27.	3.9	26
17	Equilibrium and kinetic Si isotope fractionation factors and their implications for Si isotope distributions in the Earthâ€™s surface environments. Acta Geochimica, 2016, 35, 15-24.	1.7	24
18	Silicon isotope fractionation during the precipitation of quartz and the adsorption of H4SiO4(aq) on Fe(III)-oxyhydroxide surfaces. Diqiu Huaxue, 2015, 34, 459-468.	0.5	23

#	Article	IF	Citations
19	Nitrogen isotope fractionations among gaseous and aqueous NH4+, NH3, N2, and metal-ammine complexes: Theoretical calculations and applications. Geochimica Et Cosmochimica Acta, 2021, 295, 80-97.	3.9	21
20	Non-traditional stable isotope behaviors in immiscible silica-melts in a mafic magma chamber. Scientific Reports, 2015, 5, 17561.	3.3	17
21	Nuclear field shift effects on stable isotope fractionation: a review. Acta Geochimica, 2016, 35, 227-239.	1.7	17
22	The theory of equilibrium isotope fractionations for gaseous molecules under super-cold conditions. Geochimica Et Cosmochimica Acta, 2018, 238, 123-149.	3.9	14
23	Predicting equilibrium intramolecular isotope distribution within a large organic molecule by the cutoff calculation. Geochimica Et Cosmochimica Acta, 2020, 269, 292-302.	3.9	11
24	First-principles calculations of equilibrium bromine isotope fractionations. Geochimica Et Cosmochimica Acta, 2021, 297, 65-81.	3.9	10
25	Molecular-Level Mechanism of Phosphoric Acid Digestion of Carbonates and Recalibration of the ‹sup›13‹/sup›Câ€“‹sup›18‹/sup›O Clumped Isotope Thermometer. ACS Earth and Space Chemistry, 2020, 4, 420-433.	2.7	9
26	Triple oxygen isotope constraints on the origin of ocean island basalts. Acta Geochimica, 2019, 38, 327-334.	1.7	8
27	Predicting nitrogen and oxygen kinetic isotope effects of nitrate reduction by periplasmic dissimilatory nitrate reductase. Geochimica Et Cosmochimica Acta, 2021, 293, 224-239.	3.9	8
28	Zinc isotope fractionation under vaporization processes and in aqueous solutions. Acta Geochimica, 2018, 37, 663-675.	1.7	7
29	How to produce isotope anomalies in mantle by using extremely small isotope fractionations: A process-driven amplification effect?. Geochimica Et Cosmochimica Acta, 2020, 291, 19-49.	3.9	4
30	Equilibrium thallium isotope fractionation and its constraint on Earthâ€™s late veneer. Acta Geochimica, 2019, 38, 459-471.	1.7	3
31	A model of crustâ€“mantle differentiation for the early Earth. Acta Geochimica, 2022, 41, 689-703.	1.7	3
32	Ironâ€Carbon Alloy Under Shock Compression: Implications for the Carbon Concentration in Earthâ€™s Inner Core. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	3
33	Quantum-mechanical equilibrium isotopic fractionation correction to radiocarbon dating: a theory study. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 335-338.	1.5	2
34	Finite Element Method for Modeling 3D Resistivity Sounding on Anisotropic Geoelectric Media. Mathematical Problems in Engineering, 2017, 2017, 1-12.	1.1	2
35	A Metastable Fo-III Wedge in Cold Slabs Subducted to the Lower Part of the Mantle Transition Zone: A Hypothesis Based on First-Principles Simulations. Minerals (Basel, Switzerland), 2019, 9, 186.	2.0	2
36	Chemical structure of the Earthâ€™s mantle defined by fast diffusion elements like helium. Acta Geochimica, 2020, 39, 1-3.	1.7	2

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37	Theoretical calculation of position-specific carbon and hydrogen isotope equilibriums in butane isomers. Chemical Geology, 2021, 561, 120031.	3.3	2
38	Partial Deoxygenation and Dehydration of Ferric Oxyhydroxide in Earth's Subducting Slabs. Geophysical Research Letters, 2021, 48, e2021GL094446.	4.0	2
39	The core-merging giant impact in Earthâ€™s accretion history and its implications. Acta Geochimica, 2022, 41, 553-567.	1.7	1
40	The escape mechanisms of the proto-atmosphere on terrestrial planets: â€œboil-offâ€•escape, hydrodynamic escape and impact erosion. Acta Geochimica, 2022, 41, 592-606.	1.7	1
41	Electrical and thermal conductivity of Earthâ€™s core and its thermal evolutionâ€”A review. Acta Geochimica, 2022, 41, 665-688.	1.7	1
42	182W anomalies in mantle: a brief review. Acta Geochimica, 0, , 1.	1.7	1
43	The boron isotopic paleo-pH indicatorâ€”A theoretical re-evaluation. Diqiu Huaxue, 2006, 25, 16-17.	0.5	0
44	Improved Magnetotelluric Zohdy-Oldenburg Direct Inversion. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	0
45	Theoretical calculation of equilibrium Mg isotope fractionation between silicate melt and its vapor. Acta Geochimica, 2018, 37, 655-662.	1.7	0
46	Equilibrium mercury and lead isotope fractionation caused by nuclear volume effects in crystals. Acta Geochimica, 2021, 40, 150-162.	1.7	0