

Sang-Tae Kim

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,909
citations

516215

16
h-index

433756

31
g-index

32
all docs

32
docs citations

32
times ranked

4431
citing authors

#	ARTICLE	IF	CITATIONS
1	Equilibrium and nonequilibrium oxygen isotope effects in synthetic carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3461-3475.	1.6	2,042
2	Oxygen isotope fractionation between synthetic aragonite and water: Influence of temperature and Mg ²⁺ concentration. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4704-4715.	1.6	403
3	Phosphoric acid fractionation factors for calcite and aragonite between 25 and 75°C: Revisited. <i>Chemical Geology</i> , 2007, 246, 135-146.	1.4	272
4	Reconstructing Earth's surface oxidation across the Archean-Proterozoic transition. <i>Geology</i> , 2009, 37, 399-402.	2.0	247
5	Sulfate was a trace constituent of Archean seawater. <i>Science</i> , 2014, 346, 735-739.	6.0	246
6	Normalization of stable isotope data for carbonate minerals: Implementation of IUPAC guidelines. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 276-289.	1.6	116
7	Isotopic links between atmospheric chemistry and the deep sulphur cycle on Mars. <i>Nature</i> , 2014, 508, 364-368.	13.7	91
8	Evaluating the S-isotope fractionation associated with Phanerozoic pyrite burial. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2053-2071.	1.6	89
9	Mechanisms of equilibrium and kinetic oxygen isotope effects in synthetic aragonite at 25°C. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5790-5801.	1.6	64
10	Implications from sulfur isotopes of the Nakhla meteorite for the origin of sulfate on Mars. <i>Earth and Planetary Science Letters</i> , 2007, 264, 1-8.	1.8	61
11	Early inner solar system origin for anomalous sulfur isotopes in differentiated protoplanets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17749-17754.	3.3	34
12	Speleothem evidence for the greening of the Sahara and its implications for the early human dispersal out of sub-Saharan Africa. <i>Quaternary Science Reviews</i> , 2018, 188, 67-76.	1.4	34
13	Carbonate clumped isotope paleothermometry: a review of recent advances in CO ₂ gas evolution, purification, measurement and standardization techniques. <i>Geosciences Journal</i> , 2015, 19, 357-374.	0.6	26
14	1000-Year Quasi-Periodicity of Weak Monsoon Events in Temperate Northeast Asia since the Mid-Holocene. <i>Scientific Reports</i> , 2017, 7, 15196.	1.6	24
15	Calcite raft geochemistry as a hydrological proxy for Holocene aquifer conditions in Hoyo Negro and Ich Balam (Sac Actun Cave System), Quintana Roo, Mexico. <i>Quaternary Science Reviews</i> , 2017, 175, 97-111.	1.4	24
16	Seasonal trends in calcite-raft precipitation from cenotes Rainbow, Feno and Monkey Dust, Quintana Roo, Mexico: Implications for paleoenvironmental studies. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 497, 157-167.	1.0	17
17	Experimental studies of oxygen isotope fractionation between rhodochrosite (MnCO ₃) and water at low temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4400-4408.	1.6	16
18	Comment on "An experimental study of oxygen isotope fractionation between inorganically precipitated aragonite and water at low temperatures" by G.-T. Zhou and Y.-F. Zheng. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3195-3197.	1.6	13

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19	A new online technique for the simultaneous measurement of the $\delta^{13}\text{C}$ value of dissolved inorganic carbon and the $\delta^{18}\text{O}$ value of water from a single solution sample using continuous-flow isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 553-562.	0.7	12
20	Carbon and oxygen isotope systematics in cave environments: Lessons from an artificial cave at McMaster Cave. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 137-159.	1.6	12
21	The Characterization Of CaCO_3 in a Geothermal Environment: A Sem/Tem-Eels Study. <i>Clays and Clay Minerals</i> , 2012, 60, 484-495.	0.6	11
22	Influence of dissolved ions on determination of oxygen isotope composition of aqueous solutions using the $\text{CO}_2\text{-H}_2\text{O}$ equilibration method. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2083-2092.	0.7	11
23	Oxygen isotope systematics in the aragonite- $\text{CO}_2\text{-H}_2\text{O-NaCl}$ system up to 0.7mol/kg ionic strength at 25°C. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 137, 147-158.	1.6	11
24	No ion is an island: Multiple ions influence boron incorporation into CaCO_3 . <i>Geochimica Et Cosmochimica Acta</i> , 2022, 318, 510-530.	1.6	11
25	A stable isotope toolbox for water and inorganic carbon cycle studies. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 699-719.	12.2	7
26	Disordering of $^{13}\text{C}^{18}\text{O}$ bonds in CO_2 gas over a heated quartz surface at 50-1100°C: Insights into the abundance of mass 47 (δ^{47}) in CO_2 gas at thermodynamic equilibrium. <i>Chemical Geology</i> , 2019, 524, 213-227.	1.4	5
27	Techniques for measuring carbon and oxygen isotope compositions of atmospheric CO_2 via isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8995.	0.7	3
28	Influence of seasonal temperature on tree-ring $\delta^{13}\text{C}$ in different-aged temperate pine forests. <i>Forest Ecology and Management</i> , 2018, 419-420, 197-205.	1.4	2
29	Spatial Distribution and Preservation of Carbon Isotope Biosignatures in Freshwater Microbialite Carbonate. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 335-343.	1.2	2
30	Oxygen Isotope Analysis of Saline Solutions by a Carbonic anhydrase-Catalyzed $\text{CO}_2\text{-H}_2\text{O}$ Equilibration Method (C^{3}HEM) with an Improved Drying Technique. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1565-1571.	1.2	2
31	Enzymatically catalyzed $\text{CO}_2\text{-H}_2\text{O}$ equilibration for oxygen isotope analyses of aqueous samples. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1185-1195.	0.7	1