

Ming-Chang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,849
citations

623734

14
h-index

414414

32
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37
all docs

37
docs citations

37
times ranked

1777
citing authors

#	ARTICLE	IF	CITATIONS
1	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
2	Loss and Isotopic Fractionation of Alkali Elements during Diffusion-Limited Evaporation from Molten Silicate: Theory and Experiments. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 755-784.	2.7	14
3	Petrographic and isotopic investigations of two unusual Ca-Al-rich inclusions from primitive CO ₃ chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 296, 75-96.	3.9	1
4	Carbon isotopes of Proterozoic filamentous microfossils: SIMS analyses of ancient cyanobacteria from two disparate shallow-marine cherts. <i>Geomicrobiology Journal</i> , 2021, 38, 719-731.	2.0	3
5	Pyrite Morphology and $\delta^{34}\text{S}$ as Indicators of Deposition Environment in Organic-Rich Shales. <i>Geosciences (Switzerland)</i> , 2021, 11, 355.	2.2	3
6	Correction to Loss and Isotopic Fractionation of Alkali Elements during Diffusion-Limited Evaporation from Molten Silicate: Theory and Experiments. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2544-2544.	2.7	0
7	Fossil records of early solar irradiation and cosmolocalization of the CAI factory: A reappraisal. <i>Science Advances</i> , 2021, 7, eabg8329.	10.3	4
8	Formation of rims around chondrules via porous aggregate accretion. <i>Icarus</i> , 2021, 367, 114538.	2.5	5
9	A coordinated microstructural and isotopic study of a Wark-Lovering rim on a Vigarano CAI. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 639-660.	3.9	12
10	Calibration of matrix-dependent biases in isotope and trace element analyses of carbonate minerals. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020, 38, .	1.2	3
11	The benthic foraminiferal $\delta^{34}\text{S}$ records flux and timing of paleo methane emissions. <i>Scientific Reports</i> , 2020, 10, 1304.	3.3	2
12	Aluminum-26 chronology of dust coagulation and early solar system evolution. <i>Science Advances</i> , 2019, 5, eaaw3350.	10.3	18
13	Origin of ¹⁶ O-rich fine-grained Ca-Al-rich inclusions of different mineralogy and texture. <i>Chemie Der Erde</i> , 2019, 79, 125543.	2.0	9
14	Sensitive and rapid oxygen isotopic analysis of nephrite jade using large-geometry SIMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 561-569.	3.0	4
15	The Cosmochemistry of Boron Isotopes. <i>Advances in Isotope Geochemistry</i> , 2018, , 273-289.	1.4	5
16	The Hyperion-II radio-frequency oxygen ion source on the UCLA ims1290 ion microprobe: Beam characterization and applications in geochemistry and cosmochemistry. <i>International Journal of Mass Spectrometry</i> , 2018, 424, 1-9.	1.5	33
17	Origin and significance of Si and O isotope heterogeneities in Phanerozoic, Archean, and Hadean zircon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10287-10292.	7.1	56
18	Evidence for oxidation at the base of the nakhlite pile by reduction of sulfate salts at the time of lava emplacement. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 186-197.	3.9	11

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19	The initial $^{41}\text{Ca}/^{40}\text{Ca}$ ratios in two type A Ca-Al-rich inclusions: Implications for the origin of short-lived ^{41}Ca . <i>Geochimica Et Cosmochimica Acta</i> , 2017, 201, 123-135.	3.9	11
20	Large and robust lenticular microorganisms on the young Earth. <i>Precambrian Research</i> , 2017, 296, 112-119.	2.7	38
21	Quantification of oxygen isotope SIMS matrix effects in olivine samples: Correlation with sputter rate. <i>Chemical Geology</i> , 2017, 458, 14-21.	3.3	39
22	In situ isotopic studies of the U-depleted Allende CAI Curious Marie : Pre-accretionary alteration and the co-existence of ^{26}Al and ^{36}Cl in the early solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 1-18.	3.9	17
23	Ion probe techniques to measure the distribution of substrate elements in coatings for copper alloys. <i>Progress in Organic Coatings</i> , 2017, 111, 267-272.	3.9	3
24	ON THE INJECTION OF SHORT-LIVED RADIONUCLIDES FROM A SUPERNOVA INTO THE SOLAR NEBULA: CONSTRAINTS FROM THE OXYGEN ISOTOPES. <i>Astrophysical Journal Letters</i> , 2014, 781, L28.	8.3	3
25	Dense molecular cloud cores as a source of micrometer-sized grains in galaxies. <i>Planetary and Space Science</i> , 2014, 100, 40-45.	1.7	9
26	Short-lived radionuclides in the early Solar System. , 2012, , .		0
27	A LOWER INITIAL ABUNDANCE OF SHORT-LIVED ^{41}Ca IN THE EARLY SOLAR SYSTEM AND ITS IMPLICATIONS FOR SOLAR SYSTEM FORMATION. <i>Astrophysical Journal</i> , 2012, 761, 137.	4.5	41
28	A heterogeneous solar nebula as sampled by CM hibonite grains. <i>Earth and Planetary Science Letters</i> , 2012, 327-328, 75-83.	4.4	49
29	LITHIUM-BERYLLIUM-BORON ISOTOPIC COMPOSITIONS IN METEORITIC HIBONITE: IMPLICATIONS FOR ORIGIN OF ^{10}Be AND EARLY SOLAR SYSTEM IRRADIATION. <i>Astrophysical Journal Letters</i> , 2010, 719, L99-L103.	8.3	38
30	ON AN IRRADIATION ORIGIN FOR MAGNESIUM ISOTOPE ANOMALIES IN METEORITIC HIBONITE. <i>Astrophysical Journal</i> , 2009, 697, L145-L148.	4.5	12
31	Isotopic records in CM hibonites: Implications for timescales of mixing of isotope reservoirs in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5051-5079.	3.9	113
32	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
33	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	12.6	343