# Ming-Chang Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9110863/publications.pdf

Version: 2024-02-01

| | | 623734 | 414414 |
|---|---|---|---|
| 33 | 1,849 | 14 | 32 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 37 | 37 | 37 | 1777 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716. | 12.6 | 848 |
| 2 | Isotopic Compositions of Cometary Matter Returned by Stardust. Science, 2006, 314, 1724-1728. | 12.6 | 343 |
| 3 | Isotopic records in CM hibonites: Implications for timescales of mixing of isotope reservoirs in the solar nebula. Geochimica Et Cosmochimica Acta, 2009, 73, 5051-5079. | 3.9 | 113 |
| 4 | Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. Science, 2023, 379, . | 12.6 | 97 |
| 5 | Origin and significance of Si and O isotope heterogeneities in Phanerozoic, Archean, and Hadean zircon. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10287-10292. | 7.1 | 56 |
| 6 | A heterogeneous solar nebula as sampled by CM hibonite grains. Earth and Planetary Science Letters, 2012, 327-328, 75-83. | 4.4 | 49 |
| 7 | A LOWER INITIAL ABUNDANCE OF SHORT-LIVED<sup>41</sup>Ca IN THE EARLY SOLAR SYSTEM AND ITS IMPLICATIONS FOR SOLAR SYSTEM FORMATION. Astrophysical Journal, 2012, 761, 137. | 4.5 | 41 |
| 8 | Quantification of oxygen isotope SIMS matrix effects in olivine samples: Correlation with sputter rate. Chemical Geology, 2017, 458, 14-21. | 3.3 | 39 |
| 9 | LITHIUMâ€"BERYLLIUMâ€"BORON ISOTOPIC COMPOSITIONS IN METEORITIC HIBONITE: IMPLICATIONS FOR ORIGIN OF <sup>10</sup> Be AND EARLY SOLAR SYSTEM IRRADIATION. Astrophysical Journal Letters, 2010, 719, L99-L103. | 8.3 | 38 |
| 10 | Large and robust lenticular microorganisms on the young Earth. Precambrian Research, 2017, 296, 112-119. | 2.7 | 38 |
| 11 | The Hyperion-II radio-frequency oxygen ion source on the UCLA ims1290 ion microprobe: Beam characterization and applications in geochemistry and cosmochemistry. International Journal of Mass Spectrometry, 2018, 424, 1-9. | 1.5 | 33 |
| 12 | Aluminum-26 chronology of dust coagulation and early solar system evolution. Science Advances, 2019, 5, eaaw3350. | 10.3 | 18 |
| 13 | 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. Geochimica Et Cosmochimica Acta, 2017, 207, 1-18. | 3.9 | 17 |
| 14 | Loss and Isotopic Fractionation of Alkali Elements during Diffusion-Limited Evaporation from Molten Silicate: Theory and Experiments. ACS Earth and Space Chemistry, 2021, 5, 755-784. | 2.7 | 14 |
| 15 | ON AN IRRADIATION ORIGIN FOR MAGNESIUM ISOTOPE ANOMALIES IN METEORITIC HIBONITE. Astrophysical Journal, 2009, 697, L145-L148. | 4.5 | 12 |
| 16 | A coordinated microstructural and isotopic study of a Wark-Lovering rim on a Vigarano CAI. Geochimica Et Cosmochimica Acta, 2020, 269, 639-660. | 3.9 | 12 |
| 17 | The initial 41Ca/40Ca ratios in two type A Caâ€"Al-rich inclusions: Implications for the origin of short-lived 41Ca. Geochimica Et Cosmochimica Acta, 2017, 201, 123-135. | 3.9 | 11 |
| 18 | Evidence for oxidation at the base of the nakhlite pile by reduction of sulfate salts at the time of lava emplacement. Geochimica Et Cosmochimica Acta, 2018, 239, 186-197. | 3.9 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dense molecular cloud cores as a source of micrometer-sized grains in galaxies. Planetary and Space Science, 2014, 100, 40-45. | 1.7 | 9 |
| 20 | Origin of 16O-rich fine-grained Ca-Al-rich inclusions of different mineralogy and texture. Chemie Der Erde, 2019, 79, 125543. | 2.0 | 9 |
| 21 | The Cosmochemistry of Boron Isotopes. Advances in Isotope Geochemistry, 2018, , 273-289. | 1.4 | 5 |
| 22 | Formation of rims around chondrules via porous aggregate accretion. Icarus, 2021, 367, 114538. | 2.5 | 5 |
| 23 | Sensitive and rapid oxygen isotopic analysis of nephrite jade using large-geometry SIMS. Journal of Analytical Atomic Spectrometry, 2019, 34, 561-569. | 3.0 | 4 |
| 24 | Fossil records of early solar irradiation and cosmolocation of the CAI factory: A reappraisal. Science Advances, 2021, 7, eabg8329. | 10.3 | 4 |
| 25 | ON THE INJECTION OF SHORT-LIVED RADIONUCLIDES FROM A SUPERNOVA INTO THE SOLAR NEBULA: CONSTRAINTS FROM THE OXYGEN ISOTOPES. Astrophysical Journal Letters, 2014, 781, L28. | 8.3 | 3 |
| 26 | Ion probe techniques to measure the distribution of substrate elements in coatings for copper alloys. Progress in Organic Coatings, 2017, 111, 267-272. | 3.9 | 3 |
| 27 | Calibration of matrix-dependent biases in isotope and trace element analyses of carbonate minerals. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, . | 1.2 | 3 |
| 28 | Carbon isotopes of Proterozoic filamentous microfossils: SIMS analyses of ancient cyanobacteria from two disparate shallow-marine cherts. Geomicrobiology Journal, 2021, 38, 719-731. | 2.0 | 3 |
| 29 | Pyrite Morphology and Î´34S as Indicators of Deposition Environment in Organic-Rich Shales. Geosciences (Switzerland), 2021, 11, 355. | 2.2 | 3 |
| 30 | The benthic foraminiferal Î´34S records flux and timing of paleo methane emissions. Scientific Reports, 2020, 10, 1304. | 3.3 | 2 |
| 31 | Petrographic and isotopic investigations of two unusual Ca-Al-rich inclusions from primitive CO3 chondrites. Geochimica Et Cosmochimica Acta, 2021, 296, 75-96. | 3.9 | 1 |
| 32 | Short-lived radionuclides in the early Solar System. , 2012, , . | | 0 |
| 33 | Correction to Loss and Isotopic Fractionation of Alkali Elements during Diffusion-Limited Evaporation from Molten Silicate: Theory and Experiments. ACS Earth and Space Chemistry, 2021, 5, 2544-2544. | 2.7 | 0 |