Nan Liu

List of Publications by Year
in descending order

24 papers	644 citations	567281 15 h-index	677142 22 g-index
27 all docs	27 docs citations	27 times ranked	512 citing authors

#	Article	IF	Citations
1	Oxygen and aluminum-magnesium isotopic systematics of presolar nanospinel grains from CI chondrite Orgueil. Geochimica Et Cosmochimica Acta, 2022, 319, 296-317.	3.9	5
2	Slow Neutron-Capture Process: Low-Mass Asymptotic Giant Branch Stars and Presolar Silicon Carbide Grains. Universe, 2022, 8, 362.	2.5	4
3	Cluster Analysis of Presolar Silicon Carbide Grains: Evaluation of Their Classification and Astrophysical Implications. Astrophysical Journal Letters, 2021, 907, L39.	8.3	18
4	TEM Analyses of Unusual Presolar Silicon Carbide: Insights into the Range of Circumstellar Dust Condensation Conditions. Astrophysical Journal, 2021, 913, 90.	4.5	7
5	New Multielement Isotopic Compositions of Presolar SiC Grains: Implications for Their Stellar Origins. Astrophysical Journal Letters, 2021, 920, L26.	8.3	10
6	Evaluation of the classification of pre-solar silicon carbide grains using consensus clustering with resampling methods: An assessment of the confidence of grain assignments. Monthly Notices of the Royal Astronomical Society, 2021, 510, 334-350.	4.4	10
7	Coordinated EDX and microâ€Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. Meteoritics and Planetary Science, 2020, 55, .	1.6	0
8	TEM Structural and Compositional Studies of Presolar SiC Grains and Their Relation to Raman Spectra. Microscopy and Microanalysis, 2020, 26, 2052-2055.	0.4	0
9	NanoSIMS isotopic investigation of xenolithic carbonaceous clasts from the kapoeta howardite. Geochimica Et Cosmochimica Acta, 2020, 283, 243-264.	3.9	6
10	Iron isotopic and chemical tracing of basalt alteration and hematite spherule formation in Hawaii: A prospective study for Mars. Earth and Planetary Science Letters, 2020, 544, 116385.	4.4	8
11	Magnetic-buoyancy-induced Mixing in AGB Stars: Presolar SiC Grains. Astrophysical Journal Letters, 2020, 897, L25.	8.3	45
12	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins. Astrophysical Journal, 2019, 881, 28.	4.5	23
13	Late formation of silicon carbide in type II supernovae. Science Advances, 2018, 4, eaao1054.	10.3	29
14	Extremely ⁵⁴Cr- and ⁵⁰Ti-rich Presolar Oxide Grains in a Primitive Meteorite: Formation in Rare Types of Supernovae and Implications for the Astrophysical Context of Solar System Birth. Astrophysical Journal Letters, 2018, 856, L24.	8.3	48
15	New Constraints on the Major Neutron Source in Low-mass AGB Stars. Astrophysical Journal, 2018, 865, 112.	4.5	29
16	Common Occurrence of Explosive Hydrogen Burning in Type II Supernovae. Astrophysical Journal, 2018, 855, 144.	4.5	15
17	Coordinated <scp>EDX</scp> and microâ€Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. Meteoritics and Planetary Science, 2017, 52, 2550-2569.	1.6	16
18	J-type Carbon Stars: A Dominant Source of ¹⁴N-rich Presolar SiC Grains of Type AB. Astrophysical Journal Letters, 2017, 844, L12.	8.3	25

#	Article	IF	Citations
19	Stellar Origin of ¹⁵N-rich Presolar SiC Grains of Type AB: Supernovae with Explosive Hydrogen Burning. Astrophysical Journal Letters, 2017, 842, L1.	8.3	55
20	STELLAR ORIGINS OF EXTREMELY ¹³C- AND ¹⁵N-ENRICHED PRESOLAR SIC GRAINS: NOVAE OR SUPERNOVAE?. Astrophysical Journal, 2016, 820, 140.	4.5	51
21	CHILI â€“ the Chicago Instrument for Laser Ionization â€“ a new tool for isotope measurements in cosmochemistry. International Journal of Mass Spectrometry, 2016, 407, 1-15.	1.5	68
22	CORRELATED STRONTIUM AND BARIUM ISOTOPIC COMPOSITIONS OF ACID-CLEANED SINGLE MAINSTREAM SILICON CARBIDES FROM MURCHISON. Astrophysical Journal, 2015, 803, 12.	4.5	65
23	BARIUM ISOTOPIC COMPOSITION OF MAINSTREAM SILICON CARBIDES FROM MURCHISON: CONSTRAINTS FORs-PROCESS NUCLEOSYNTHESIS IN ASYMPTOTIC GIANT BRANCH STARS. Astrophysical Journal, 2014, 786, 66.	4.5	67
24	THE¹³C-POCKET STRUCTURE IN AGB MODELS: CONSTRAINTS FROM ZIRCONIUM ISOTOPE ABUNDANCES IN SINGLE MAINSTREAM SiC GRAINS. Astrophysical Journal, 2014, 788, 163.	4.5	40