Jan Leitner

List of Publications by Year
in descending order

45 papers	2,817 citations	430874 18 h-index	243625 44 g-index
46 all docs	46 docs citations	46 times ranked	2124 citing authors

#	Article	IF	Citations
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
2	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. Science, 2006, 314, 1720-1724.	12.6	519
3	Impact Features on Stardust: Implications for Comet 81P/Wild 2 Dust. Science, 2006, 314, 1716-1719.	12.6	286
4	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. Science, 2006, 314, 1731-1735.	12.6	200
5	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	12.6	152
6	NanoSIMS STUDIES OF SMALL PRESOLAR SiC GRAINS: NEW INSIGHTS INTO SUPERNOVA NUCLEOSYNTHESIS, CHEMISTRY, AND DUST FORMATION. Astrophysical Journal, 2010, 719, 1370-1384.	4.5	76
7	CHARACTERIZATION OF PRESOLAR MATERIAL IN THE CR CHONDRITE NORTHWEST AFRICA 852. Astrophysical Journal, 2012, 745, 38.	4.5	62
8	Dust from comet Wild 2: Interpreting particle size, shape, structure, and composition from impact features on the Stardust aluminum foils. Meteoritics and Planetary Science, 2008, 43, 41-73.	1.6	60
9	Stardust in Stardustâ€"The C, N, and O isotopic compositions of Wild 2 cometary matter in Al foil impacts. Meteoritics and Planetary Science, 2008, 43, 299-313.	1.6	54
10	Ancient stardust in fine-grained chondrule dust rims from carbonaceous chondrites. Earth and Planetary Science Letters, 2016, 434, 117-128.	4.4	43
11	Fluid-induced organic synthesis in the solar nebula recorded in extraterrestrial dust from meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15338-15343.	7.1	29
12	Final reports of the Stardust Interstellar Preliminary Examination. Meteoritics and Planetary Science, 2014, 49, 1720-1733.	1.6	29
13	NEW CONSTRAINTS ON THE ABUNDANCES OF SILICATE AND OXIDE STARDUST FROM SUPERNOVAE IN THE ACFER 094 METEORITE. Astrophysical Journal Letters, 2015, 808, L9.	8.3	26
14	The stardust abundance in the local interstellar cloud at the birth of the Solar System. Nature Astronomy, 2017, 1, 617-620.	10.1	25
15	Stardust Interstellar Preliminary Examination X: Impact speeds and directions of interstellar grains on the Stardust dust collector. Meteoritics and Planetary Science, 2014, 49, 1680-1697.	1.6	24
16	LABORATORY ANALYSIS OF PRESOLAR SILICATE STARDUST FROM A NOVA. Astrophysical Journal Letters, 2012, 754, L41.	8.3	21
17	A new population of dust from stellar explosions among meteoritic stardust. Nature Astronomy, 2019, 3, 725-729.	10.1	21
18	TOFâ€SIMS analysis of crater residues from Wild 2 cometary particles on Stardust aluminum foil. Meteoritics and Planetary Science, 2008, 43, 161-185.	1.6	20

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19	The presolar grain inventory of fineâ€grained chondrule rims in the Migheiâ€type (<scp>CM</scp>) chondrites. Meteoritics and Planetary Science, 2020, 55, 1176-1206.	1.6	20
20	Stardust Interstellar Preliminary Examination <scp>IX</scp>: Highâ€speed interstellar dust analog capture in Stardust flightâ€spare aerogel. Meteoritics and Planetary Science, 2014, 49, 1666-1679.	1.6	19
21	Stardust Interstellar Preliminary Examination <scp>II</scp>: Curating the interstellar dust collector, picokeystones, and sources of impact tracks. Meteoritics and Planetary Science, 2014, 49, 1522-1547.	1.6	18
22	Stardust Interstellar Preliminary Examination <scp>IV</scp>: Scanning transmission Xâ€ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1562-1593.	1.6	18
23	Correlated nanoscale characterization of a unique complex oxygen-rich stardust grain: Implications for circumstellar dust formation. Geochimica Et Cosmochimica Acta, 2018, 221, 255-274.	3.9	17
24	Architecture of Anoteropora latirostris (Bryozoa, Cheilostomata) and implications for their biomineralization. Scientific Reports, 2019, 9, 11439.	3.3	17
25	Isotope Systematics of Presolar Silicate Grains: New Insights from Magnesium and Silicon. Astrophysical Journal, 2021, 913, 10.	4.5	17
26	AN UNUSUAL PRESOLAR SILICON CARBIDE GRAIN FROM A SUPERNOVA: IMPLICATIONS FOR THE PRODUCTION OF SILICON-29 IN TYPE II SUPERNOVAE. Astrophysical Journal, 2009, 691, L20-L23.	4.5	16
27	Stardust Interstellar Preliminary Examination <scp>XI</scp>: Identification and elemental analysis of impact craters on Al foils from the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1698-1719.	1.6	16
28	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. Meteoritics and Planetary Science, 2014, 49, 1509-1521.	1.6	16
29	Isotopic compositions, nitrogen functional chemistry, and lowâ€loss electron spectroscopy of complex organic aggregates at the nanometer scale in the carbonaceous chondrite Renazzo. Meteoritics and Planetary Science, 2020, 55, 1293-1319.	1.6	16
30	SIMS studies of Allende projectiles fired into Stardustâ€type aluminum foils at 6 km/sec. Meteoritics and Planetary Science, 2006, 41, 197-209.	1.6	14
31	Stardust Interstellar Preliminary Examination <scp>VII</scp>: Synchrotron Xâ€ray fluorescence analysis of six Stardust interstellar candidates measured with the Advanced Photon Source 2â€<scp>ID</scp>â€D microprobe. Meteoritics and Planetary Science, 2014, 49, 1626-1644.	1.6	13
32	Stardust Interstellar Preliminary Examination VIII: Identification of crystalline material in two interstellar candidates. Meteoritics and Planetary Science, 2014, 49, 1645-1665.	1.6	12
33	Stardust Interstellar Preliminary Examination <scp>VI</scp>: Quantitative elemental analysis by synchrotron Xâ€ray fluorescence nanoimaging of eight impact features in aerogel. Meteoritics and Planetary Science, 2014, 49, 1612-1625.	1.6	12
34	Stardust Interstellar Preliminary Examination V: <scp>XRF</scp> analyses of interstellar dust candidates at <scp>ESRF ID</scp>13. Meteoritics and Planetary Science, 2014, 49, 1594-1611.	1.6	12
35	Stardust Interstellar Preliminary Examination <scp>III</scp>: Infrared spectroscopic analysis of interstellar dust candidates. Meteoritics and Planetary Science, 2014, 49, 1548-1561.	1.6	12
36	Amorphous silicates as a record of solar nebular and parent body processesâ€"A transmission electron microscope study of fineâ€grained rims and matrix in three Antarctic CR chondrites. Meteoritics and Planetary Science, 2020, 55, 1491-1508.	1.6	11

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37	New Insights into the Galactic Chemical Evolution of Magnesium and Silicon Isotopes from Studies of Silicate Stardust. Astrophysical Journal, 2018, 869, 47.	4.5	10
38	A study of presolar material in hydrated lithic clasts from metalâ€rich carbonaceous chondrites. Meteoritics and Planetary Science, 2018, 53, 204-231.	1.6	8
39	Highâ€Resolution Mg/Ca Measurements of Foraminifer Shells Using Femtosecond LAâ€ICPâ€MS for Paleoclimate Proxy Development. Geochemistry, Geophysics, Geosystems, 2019, 20, 2053-2063.	2.5	8
40	Automated searching of Stardust interstellar foils. Meteoritics and Planetary Science, 2012, 47, 729-736.	1.6	7
41	A primordial 15N-depleted organic component detected within the carbonaceous chondrite Maribo. Scientific Reports, 2020, 10, 20251.	3.3	6
42	An isotopic, elemental and structural study of silicon nitride from enstatite chondrites. Geochimica Et Cosmochimica Acta, 2018, 235, 153-172.	3.9	3
43	Heavy Element Abundances in Presolar Silicon Carbide Grains from Low-Metallicity AGB Stars. Publications of the Astronomical Society of Australia, 2009, 26, 284-288.	3.4	2
44	Artifacts from manganese reduction in rock samples prepared by focused ion beam (FIB) slicing for X-ray microspectroscopy. Geoscientific Instrumentation, Methods and Data Systems, 2019, 8, 97-111.	1.6	2
45	Challenges and Applications of High Spatial and Energy Resolution EELS for Mapping Functional Chemistry in Beam-Sensitive Materials at Low Acceleration Voltages. Microscopy and Microanalysis, 2019, 25, 480-481.	0.4	0