

Zack Gainsforth

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1523563/publications.pdf>

Version: 2024-02-01

29
papers

735
citations

623188

14
h-index

610482

24
g-index

29
all docs

29
docs citations

29
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Chondrules from high-velocity collisions: thermal histories and the agglomeration problem. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 3297-3308.	1.6	4
2	Automatic detection of impact craters on Al foils from the Stardust interstellar dust collector using convolutional neural networks. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1890-1904.	0.7	1
3	A Sintered and Sulfidized Equilibrated Aggregate from an Interplanetary Dust Particle. <i>Microscopy and Microanalysis</i> , 2020, 26, 2056-2058.	0.2	0
4	Q-gases in a late-forming refractory interplanetary dust particle: A link to comet Wild 2. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 271, 116-131.	1.6	0
5	XAS Between the Stars. <i>Microscopy and Microanalysis</i> , 2019, 25, 258-259.	0.2	0
6	STEM/EDS Tomography of Cometary Dust. <i>Microscopy and Microanalysis</i> , 2019, 25, 1812-1813.	0.2	0
7	Measurement of the Oxidation State of Fe in the ISM Using X-Ray Absorption Spectroscopy. <i>Astrophysical Journal</i> , 2019, 872, 66.	1.6	15
8	Insights into solar nebula formation of pyrrhotite from nanoscale disequilibrium phases produced by H ₂ S sulfidation of Fe metal. <i>American Mineralogist</i> , 2017, 102, 1881-1893.	0.9	6
9	MultilLaue: A Technique to Extract d-spacings from Laue XRD. <i>Microscopy and Microanalysis</i> , 2016, 22, 1784-1785.	0.2	1
10	Oxygen isotopic composition of coarse- and fine-grained material from comet 81P/Wild 2. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 74-91.	1.6	31
11	Constraints on the formation environment of two chondrule-like igneous particles from comet 81P/Wild 2. <i>Meteoritics and Planetary Science</i> , 2015, 50, 976-1004.	0.7	30
12	Coordinated Microanalyses of Seven Particles of Probable Interstellar Origin from the Stardust Mission.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1692-1693.	0.2	9
13	Stardust Interstellar Preliminary Examination X: Impact speeds and directions of interstellar grains on the Stardust dust collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1680-1697.	0.7	24
14	Stardust Interstellar Preliminary Examination XI: Identification and elemental analysis of impact craters on Al foils from the Stardust Interstellar Dust Collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1698-1719.	0.7	16
15	Stardust Interstellar Preliminary Examination VIII: Identification of crystalline material in two interstellar candidates. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1645-1665.	0.7	12
16	Stardust Interstellar Preliminary Examination VII: Synchrotron X-ray fluorescence analysis of six Stardust interstellar candidates measured with the Advanced Photon Source 2-ID microprobe. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1626-1644.	0.7	13
17	Stardust Interstellar Preliminary Examination VI: Quantitative elemental analysis by synchrotron X-ray fluorescence nanoimaging of eight impact features in aerogel. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1612-1625.	0.7	12
18	Characterization of preserved primitive fine-grained material from the Jupiter family comet 81P/Wild 2 – A new link between comets and CP-IDPs. <i>Earth and Planetary Science Letters</i> , 2014, 388, 367-373.	1.8	18

#	ARTICLE	IF	CITATIONS
19	Stardust Interstellar Preliminary Examination V: XRF analyses of interstellar dust candidates at ESRF ID 13. Meteoritics and Planetary Science, 2014, 49, 1594-1611.	0.7	12
20	Final reports of the Stardust Interstellar Preliminary Examination. Meteoritics and Planetary Science, 2014, 49, 1720-1733.	0.7	29
21	Stardust Interstellar Preliminary Examination II: Curating the interstellar dust collector, picokeystones, and sources of impact tracks. Meteoritics and Planetary Science, 2014, 49, 1522-1547.	0.7	18
22	Stardust Interstellar Preliminary Examination III: Infrared spectroscopic analysis of interstellar dust candidates. Meteoritics and Planetary Science, 2014, 49, 1548-1561.	0.7	12
23	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. Meteoritics and Planetary Science, 2014, 49, 1509-1521.	0.7	16
24	Stardust Interstellar Preliminary Examination IV: Scanning transmission X-ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1562-1593.	0.7	18
25	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	6.0	152
26	Iron valence state of fine-grained material from the Jupiter family comet 81P/Wild 2 – A coordinated TEM/STEM EDS/STXM study. Geochimica Et Cosmochimica Acta, 2013, 122, 1-16.	1.6	17
27	Surface modifications of comet-exposed aerogel from the Stardust cometary collector. Meteoritics and Planetary Science, 2012, 47, 1336-1346.	0.7	1
28	Comprehensive examination of large mineral and rock fragments in Stardust tracks: Mineralogy, analogous extraterrestrial materials, and source regions. Meteoritics and Planetary Science, 2012, 47, 471-524.	0.7	68
29	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. Science, 2006, 314, 1731-1735.	6.0	200