

# Zack Gainsforth

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

735  
citations

623188

14  
h-index

610482

24  
g-index

29  
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29  
docs citations

29  
times ranked

798  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. <i>Science</i> , 2006, 314, 1731-1735.	6.0	200
2	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. <i>Science</i> , 2014, 345, 786-791.	6.0	152
3	Comprehensive examination of large mineral and rock fragments in Stardust tracks: Mineralogy, analogous extraterrestrial materials, and source regions. <i>Meteoritics and Planetary Science</i> , 2012, 47, 471-524.	0.7	68
4	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
5	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
6	Final reports of the Stardust Interstellar Preliminary Examination. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1720-1733.	0.7	29
7	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
8	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
9	Stardust Interstellar Preliminary Examination <sc>II</sc>: Curating the interstellar dust collector, picokeystones, and sources of impact tracks. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1522-1547.	0.7	18
10	Stardust Interstellar Preliminary Examination <sc>IV</sc>: Scanning transmission X-ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1562-1593.	0.7	18
11	Iron valence state of fine-grained material from the Jupiter family comet 81P/Wild 2 – A coordinated TEM/STEM EDS/STXM study. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 1-16.	1.6	17
12	Stardust Interstellar Preliminary Examination <sc>XI</sc>: 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
13	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1509-1521.	0.7	16
14	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
15	Stardust Interstellar Preliminary Examination <sc>VII</sc>: 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
16	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
17	Stardust Interstellar Preliminary Examination <sc>VI</sc>: 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	Stardust Interstellar Preliminary Examination V: <sc>XRF</sc> analyses of interstellar dust candidates at <sc>ESRF ID</sc> 13. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1594-1611.	0.7	12

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19	Stardust Interstellar Preliminary Examination <scp>III</scp>: Infrared spectroscopic analysis of interstellar dust candidates. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1548-1561.	0.7	12
20	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
21	Insights into solar nebula formation of pyrrhotite from nanoscale disequilibrium phases produced by H <sub>2</sub> S sulfidation of Fe metal. <i>American Mineralogist</i> , 2017, 102, 1881-1893.	0.9	6
22	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
23	Surface modifications of comet-exposed aerogel from the Stardust cometary collector. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1336-1346.	0.7	1
24	MultiLaue: A Technique to Extract d-spacings from Laue XRD. <i>Microscopy and Microanalysis</i> , 2016, 22, 1784-1785.	0.2	1
25	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
26	XAS Between the Stars. <i>Microscopy and Microanalysis</i> , 2019, 25, 258-259.	0.2	0
27	STEM/EDS Tomography of Cometary Dust. <i>Microscopy and Microanalysis</i> , 2019, 25, 1812-1813.	0.2	0
28	A Sintered and Sulfidized Equilibrated Aggregate from an Interplanetary Dust Particle. <i>Microscopy and Microanalysis</i> , 2020, 26, 2056-2058.	0.2	0
29	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