

Anna L Butterworth

List of Publications by Year in descending order

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33
papers

1,276
citations

566801

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454577

30
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all docs

33
docs citations

33
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Fluorescence Labeling of Trace Analytes: Application to Amino Acid Biosignature Detection with Pacific Blue. <i>Analytical Chemistry</i> , 2022, 94, 1240-1247.	3.2	7
2	Method for detecting and quantitating capture of organic molecules in hypervelocity impacts. <i>MethodsX</i> , 2021, 8, 101239.	0.7	5
3	On the Feasibility of Informative Biosignature Measurements Using an Enceladus Plume Organic Analyzer. <i>Planetary Science Journal</i> , 2021, 2, 163.	1.5	6
4	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
5	Quantitative evaluation of the feasibility of sampling the ice plumes at Enceladus for biomarkers of extraterrestrial life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
6	Feasibility of Enceladus plume biosignature analysis: Successful capture of organic ice particles in hypervelocity impacts. <i>Meteoritics and Planetary Science</i> , 2020, 55, .	0.7	10
7	Fabrication of high-quality glass microfluidic devices for bioanalytical and space flight applications. <i>MethodsX</i> , 2020, 7, 101043.	0.7	12
8	XAS Between the Stars. <i>Microscopy and Microanalysis</i> , 2019, 25, 258-259.	0.2	0
9	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
10	Atomic layer deposition of 2D and 3D standards for synchrotron-based quantitative composition and structure analysis methods. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, 02D403.	0.9	1
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	Stardust Interstellar Preliminary Examination XII: Synchrotron X-ray fluorescence analysis of six Stardust interstellar candidates measured with the Advanced Photon Source 2-Å microprobe. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1626-1644.	0.7	13

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19	Stardust Interstellar Preliminary Examination <sc>VI</sc>: Quantitative elemental analysis by synchrotron X-ray fluorescence nanoimaging of eight impact features in aerogel. Meteoritics and Planetary Science, 2014, 49, 1612-1625.	0.7	12
20	Characterization of preserved primitive fine-grained material from the Jupiter family comet 81P/Wild 2 – A new link between comets and CP-IDPs. Earth and Planetary Science Letters, 2014, 388, 367-373.	1.8	18
21	Stardust Interstellar Preliminary Examination V: <sc>XRF</sc> analyses of interstellar dust candidates at <sc>ESRF ID</sc> 13. Meteoritics and Planetary Science, 2014, 49, 1594-1611.	0.7	12
22	Final reports of the Stardust Interstellar Preliminary Examination. Meteoritics and Planetary Science, 2014, 49, 1720-1733.	0.7	29
23	Stardust Interstellar Preliminary Examination <sc>II</sc>: Curating the interstellar dust collector, picrokeystones, and sources of impact tracks. Meteoritics and Planetary Science, 2014, 49, 1522-1547.	0.7	18
24	Stardust Interstellar Preliminary Examination <sc>III</sc>: Infrared spectroscopic analysis of interstellar dust candidates. Meteoritics and Planetary Science, 2014, 49, 1548-1561.	0.7	12
25	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. Meteoritics and Planetary Science, 2014, 49, 1509-1521.	0.7	16
26	Stardust Interstellar Preliminary Examination <sc>IV</sc>: 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
27	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	6.0	152
28	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
29	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. Science, 2006, 314, 1735-1739.	6.0	589
30	TOF-SIMS analysis of Allende projectiles shot into silica aerogel. Meteoritics and Planetary Science, 2006, 41, 211-216.	0.7	11
31	Combined element (H and C) stable isotope ratios of methane in carbonaceous chondrites. Monthly Notices of the Royal Astronomical Society, 2004, 347, 807-812.	1.6	42
32	The use of static mass spectrometry to determine the combined stable isotopic composition of small samples of atmospheric methane. , 1999, 13, 1329-1333.		7
33	Low-cost volcano surveillance from space: case studies from Etna, Krafla, Cerro Negro, Fogo, Lascar and Erebus. Bulletin of Volcanology, 1997, 59, 49-64.	1.1	116