

# Jamie E Elsila

## List of Publications by Year in descending order

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65  
papers

3,992  
citations

117625

34  
h-index

144013

57  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Theoretical Constraints on Amino Acid Formation from PAHs in Asteroidal Settings. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 468-481.	2.7	1
2	Rapid Radiolytic Degradation of Amino Acids in the Martian Shallow Subsurface: Implications for the Search for Extinct Life. <i>Astrobiology</i> , 2022, 22, 1099-1115.	3.0	17
3	Extraterrestrial amino acids and Lâ€nantiomeric excesses in the <sup>CM</sup>2 carbonaceous chondrites Aguas Zarcas and Murchison. <i>Meteoritics and Planetary Science</i> , 2021, 56, 148-173.	1.6	42
4	Amino acid abundances and compositions in iron and stonyâ€iron meteorites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 586-600.	1.6	10
5	Extraterrestrial hydroxy amino acids in CM and CR carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1005-1023.	1.6	4
6	Low total abundances and a predominance of nâ€%â€amino acids in enstatite chondrites: Implications for thermal stability of amino acids in the inner solar system. <i>Meteoritics and Planetary Science</i> , 2021, 56, 2118.	1.6	1
7	The Search for Chiral Asymmetry as a Potential Biosignature in our Solar System. <i>Chemical Reviews</i> , 2020, 120, 4660-4689.	47.7	156
8	Abundant extraterrestrial amino acids in the primitive CM carbonaceous chondrite Asuka 12236. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1979-2006.	1.6	38
9	Extraterrestrial organic compounds and cyanide in the CM2 carbonaceous chondrites Aguas Zarcas and Murchison. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1509-1524.	1.6	11
10	Analysis of amino acids, hydroxy acids, and amines in CR chondrites. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2422-2439.	1.6	25
11	Methodologies for Analyzing Soluble Organic Compounds in Extraterrestrial Samples: Amino Acids, Amines, Monocarboxylic Acids, Aldehydes, and Ketones. <i>Life</i> , 2019, 9, 47.	2.4	31
12	The SariÅiÅsek howardite fall in Turkey: Source crater of <sup>HED</sup> meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	1.6	30
13	New insights into the heterogeneity of the Tagish Lake meteorite: Soluble organic compositions of variously altered specimens. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1283-1302.	1.6	16
14	Analyses of Aliphatic Aldehydes and Ketones in Carbonaceous Chondrites. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 463-472.	2.7	30
15	Molecular distribution, <sup>13</sup>Câ€isotope, and enantiomeric compositions of carbonaceous chondrite monocarboxylic acids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 415-430.	1.6	15
16	Compoundâ€specific carbon isotope compositions of aldehydes and ketones in the Murchison meteorite. <i>Meteoritics and Planetary Science</i> , 2019, 54, 142-156.	1.6	24
17	Future planetary instrument capabilities made possible by micro- and nanotechnology. , 2019, , ,		0
18	Hydrothermal Decomposition of Amino Acids and Origins of Prebiotic Meteoritic Organic Compounds. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 588-598.	2.7	37

#	ARTICLE	IF	CITATIONS
19	The Origin and Evolution of Organic Matter in Carbonaceous Chondrites and Links to Their Parent Bodies. , 2018, , 205-271.		60
20	Molecular analyzer for Complex Refractory Organic-rich Surfaces (MACROS). , 2017, , .		5
21	Pathways to Meteoritic Glycine and Methylamine. ACS Earth and Space Chemistry, 2017, 1, 3-13.	2.7	46
22	Distribution of aliphatic amines in <scp>CO</scp>, <scp>CV</scp>, and <scp>CK</scp> carbonaceous chondrites and relation to mineralogy and processing history. Meteoritics and Planetary Science, 2017, 52, 2632-2646.	1.6	10
23	Aliphatic amines in Antarctic CR2, CM2, and CM1/2 carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2016, 189, 296-311.	3.9	29
24	Meteoritic Amino Acids: Diversity in Compositions Reflects Parent Body Histories. ACS Central Science, 2016, 2, 370-379.	11.3	126
25	The origin of amino acids in lunar regolith samples. Geochimica Et Cosmochimica Acta, 2016, 172, 357-369.	3.9	15
26	Indigenous aliphatic amines in the aqueously altered Orgueil meteorite. Meteoritics and Planetary Science, 2015, 50, 1733-1749.	1.6	30
27	Correlating Mineralogy and Amino Acid Contents of Milligram-Scale Murchison Carbonaceous Chondrite Samples. Microscopy and Microanalysis, 2015, 21, 2263-2264.	0.4	0
28	Amino acid analyses of R and CK chondrites. Meteoritics and Planetary Science, 2015, 50, 470-482.	1.6	36
29	Does aspartic acid racemization constrain the depth limit of the subsurface biosphere?. Geobiology, 2014, 12, 1-19.	2.4	52
30	A compact tandem two-step laser time-of-flight mass spectrometer for in situ analysis of non-volatile organics on planetary surfaces. , 2014, , .		6
31	The amino acid composition of the Sutter's Mill <scp>CM</scp>2 carbonaceous chondrite. Meteoritics and Planetary Science, 2014, 49, 2074-2086.	1.6	57
32	Liquid chromatography-mass spectrometry interface for detection of extraterrestrial organics. , 2014, , .		3
33	Assessing the origins of aliphatic amines in the Murchison meteorite from their compound-specific carbon isotopic ratios and enantiomeric composition. Geochimica Et Cosmochimica Acta, 2014, 141, 331-345.	3.9	45
34	The effects of parent-body hydrothermal heating on amino acid abundances in CI-like chondrites. Polar Science, 2014, 8, 255-263.	1.2	46
35	A search for amino acids and nucleobases in the Martian meteorite Roberts Massif 04262 using liquid chromatography-mass spectrometry. Meteoritics and Planetary Science, 2013, 48, 786-795.	1.6	43
36	Extraterrestrial amino acids identified in metal-rich <scp>CH</scp> and <scp>CB</scp> carbonaceous chondrites from Antarctica. Meteoritics and Planetary Science, 2013, 48, 390-402.	1.6	48

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37	Unusual nonterrestrial $\alpha$ -proteinogenic amino acid excesses in the Tagish Lake meteorite. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1347-1364.	1.6	106
38	Compound-specific carbon, nitrogen, and hydrogen isotopic ratios for amino acids in CM and CR chondrites and their use in evaluating potential formation pathways. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1517-1536.	1.6	77
39	Radar-Enabled Recovery of the Sutter's Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
40	Inconclusive evidence for nonterrestrial isoleucine enantiomeric excesses in primitive meteorites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3288-E3288.	7.1	16
41	Understanding prebiotic chemistry through the analysis of extraterrestrial amino acids and nucleobases in meteorites. <i>Chemical Society Reviews</i> , 2012, 41, 5459.	38.1	301
42	A propensity for $\alpha$ -amino acids in thermally altered Antarctic meteorites. <i>Meteoritics and Planetary Science</i> , 2012, 47, 374-386.	1.6	66
43	Carbon isotopic fractionation in Fischer-Tropsch-type reactions and relevance to meteorite organics. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1029-1034.	1.6	8
44	Distribution and Stable Isotopic Composition of Amino Acids from Fungal Peptaibiotics: Assessing the Potential for Meteoritic Contamination. <i>Astrobiology</i> , 2011, 11, 123-133.	3.0	36
45	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. <i>Science</i> , 2011, 332, 1304-1307.	12.6	189
46	Assessment and control of organic and other contaminants associated with the Stardust sample return from comet 81P/Wild 2. <i>Meteoritics and Planetary Science</i> , 2010, 45, 406-433.	1.6	55
47	Extraterrestrial amino acids in the Almahata Sitta meteorite. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1695-1709.	1.6	50
48	The effects of parent body processes on amino acids in carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1948-1972.	1.6	218
49	Formation of Uracil from the Ultraviolet Photo-Irradiation of Pyrimidine in Pure $H_2O$ Ices. <i>Astrobiology</i> , 2009, 9, 683-695.	3.0	99
50	Cometary glycine detected in samples returned by Stardust. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1323-1330.	1.6	397
51	Mechanisms of Amino Acid Formation in Interstellar Ice Analogs. <i>Astrophysical Journal</i> , 2007, 660, 911-918.	4.5	192
52	Ultraviolet photolysis of anthracene in $H_2O$ interstellar ice analogs: Potential connection to meteoritic organics. <i>Meteoritics and Planetary Science</i> , 2007, 42, 2035-2041.	1.6	46
53	Cosmic Heritage of Solar System Organic Matter. , 2006, , .		0
54	UV photolysis of quinoline in interstellar ice analogs. <i>Meteoritics and Planetary Science</i> , 2006, 41, 785-796.	1.6	37

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55	Alkylation of polycyclic aromatic hydrocarbons in carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1349-1357.	3.9	58
56	Extracts of impact breccia samples from Sudbury, Gardnos, and Ries impact craters and the effects of aggregation on C60 detection. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2891-2899.	3.9	13
57	Laboratory experiments of Titan tholin formed in cold plasma at various pressures: implications for nitrogen-containing polycyclic aromatic compounds in Titan haze. <i>Icarus</i> , 2004, 168, 344-366.	2.5	284
58	An evolutionary connection between interstellar ices and IDPs? Clues from mass spectroscopy measurements of laboratory simulations. <i>Advances in Space Research</i> , 2004, 33, 67-71.	2.6	24
59	Factors Affecting Quantitative Analysis in Laser Desorption/Laser Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 2430-2437.	6.5	42
60	Formation of carbon-carbon bonds in the photochemical alkylation of polycyclic aromatic hydrocarbons. <i>Origins of Life and Evolution of Biospheres</i> , 2003, 33, 17-35.	1.9	22
61	Evidence that polycyclic aromatic hydrocarbons in two carbonaceous chondrites predate parent-body formation. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1429-1436.	3.9	57
62	Side Group Addition to the Polycyclic Aromatic Hydrocarbon Coronene by Proton Irradiation in Cosmic Ice Analogs. <i>Astrophysical Journal</i> , 2003, 582, L25-L29.	4.5	73
63	Side Group Addition to the Polycyclic Aromatic Hydrocarbon Coronene by Ultraviolet Photolysis in Cosmic Ice Analogs. <i>Astrophysical Journal</i> , 2002, 576, 1115-1120.	4.5	97
64	The 2140 cm <sup>-1</sup> (4.673 Microns) Solid CO Band: The Case for Interstellar O <sub>2</sub> and N <sub>2</sub> and the Photochemistry of Nonpolar Interstellar Ice Analogs. <i>Astrophysical Journal</i> , 1997, 479, 818-838.	4.5	91
65	Frontiers in Prebiotic Chemistry and Early Earth Environments. <i>Origins of Life and Evolution of Biospheres</i> , 0, , .	1.9	1