Jason Dworkin

List of Publications by Year
in descending order

163 papers	18,379 citations	18887 64 h-index	14012 133 g-index
174 all docs	174 docs citations	174 times ranked	11007 citing authors

#	Article	IF	Citations
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	6.0	848
2	Racemic amino acids from the ultraviolet photolysis of interstellar ice analogues. Nature, 2002, 416, 401-403.	13.7	702
3	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
4	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. Science, 2006, 314, 1720-1724.	6.0	519
5	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
6	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
7	Carbonaceous meteorites contain a wide range of extraterrestrial nucleobases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13995-13998.	3.3	460
8	The Sample Analysis at Mars Investigation and Instrument Suite. Space Science Reviews, 2012, 170, 401-478.	3.7	435
9	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. Space Science Reviews, 2017, 212, 925-984.	3.7	426
10	Cometary glycine detected in samples returned by Stardust. Meteoritics and Planetary Science, 2009, 44, 1323-1330.	0.7	397
11	Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2015, 120, 495-514.	1.5	375
12	Mars methane detection and variability at Gale crater. Science, 2015, 347, 415-417.	6.0	373
13	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
14	The unexpected surface of asteroid (101955) Bennu. Nature, 2019, 568, 55-60.	13.7	364
15	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
16	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
17	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
18	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323

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19	Extraterrestrial nucleobases in the Murchison meteorite. Earth and Planetary Science Letters, 2008, 270, 130-136.	1.8	317
20	Evidence for perchlorates and the origin of chlorinated hydrocarbons detected by SAM at the Rocknest aeolian deposit in Gale Crater. Journal of Geophysical Research E: Planets, 2013, 118, 1955-1973.	1.5	306
21	Understanding prebiotic chemistry through the analysis of extraterrestrial amino acids and nucleobases in meteorites. Chemical Society Reviews, 2012, 41, 5459.	18.7	301
22	The Miller Volcanic Spark Discharge Experiment. Science, 2008, 322, 404-404.	6.0	298
23	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
24	Enrichment of the amino acid <scp>l</scp> -isovaline by aqueous alteration on CI and CM meteorite parent bodies. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5487-5492.	3.3	264
25	Nanopore DNA Sequencing and Genome Assembly on the International Space Station. Scientific Reports, 2017, 7, 18022.	1.6	264
26	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
27	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263.	6.0	241
28	Primordial synthesis of amines and amino acids in a 1958 Miller H ₂ S-rich spark discharge experiment. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5526-5531.	3.3	232
29	The First Cell Membranes. Astrobiology, 2002, 2, 371-381.	1.5	231
30	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224
31	The effects of parent body processes on amino acids in carbonaceous chondrites. Meteoritics and Planetary Science, 2010, 45, 1948-1972.	0.7	218
32	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
33	Self-assembling amphiphilic molecules: Synthesis in simulated interstellar/precometary ices. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 815-819.	3.3	208
34	Mechanisms of Amino Acid Formation in Interstellar Ice Analogs. Astrophysical Journal, 2007, 660, 911-918.	1.6	192
35	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. Science, 2012, 338, 1583-1587.	6.0	191
36	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. Science, 2011, 332, 1304-1307.	6.0	189

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37	The Photostability of Amino Acids in Space. Astrophysical Journal, 2001, 550, L95-L99.	1.6	187
38	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the Curiosity rover investigations at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4245-4250.	3.3	172
39	The OSIRISâ€REx target asteroid (101955) Bennu: Constraints on its physical, geological, and dynamical nature from astronomical observations. Meteoritics and Planetary Science, 2015, 50, 834-849.	0.7	168
40	Amino acid analyses of Antarctic CM2 meteorites using liquid chromatography-time of flight-mass spectrometry. Meteoritics and Planetary Science, 2006, 41, 889-902.	0.7	167
41	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. Nature Geoscience, 2019, 12, 242-246.	5.4	161
42	Extraterrestrial ribose and other sugars in primitive meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24440-24445.	3.3	158
43	The Search for Chiral Asymmetry as a Potential Biosignature in our Solar System. Chemical Reviews, 2020, 120, 4660-4689.	23.0	156
44	Molecular asymmetry in extraterrestrial chemistry: Insights from a pristine meteorite. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3700-3704.	3.3	139
45	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134
46	The roads to and from the RNA world. Journal of Theoretical Biology, 2003, 222, 127-134.	0.8	131
47	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. Science, 2019, 366, .	6.0	129
48	Meteoritic Amino Acids: Diversity in Compositions Reflects Parent Body Histories. ACS Central Science, 2016, 2, 370-379.	5.3	126
49	Assessment of the interstellar processes leading to deuterium enrichment in meteoritic organics. Meteoritics and Planetary Science, 2001, 36, 1117-1133.	0.7	121
50	Detection of cometary amines in samples returned by Stardust. Meteoritics and Planetary Science, 2008, 43, 399-413.	0.7	117
51	A radical pathway for organic phosphorylation during schreibersite corrosion with implications for the origin of life. Geochimica Et Cosmochimica Acta, 2007, 71, 1721-1736.	1.6	114
52	The imprint of atmospheric evolution in the D/H of Hesperian clay minerals on Mars. Science, 2015, 347, 412-414.	6.0	113
53	Unusual nonterrestrial <scp>l</scp>â€proteinogenic amino acid excesses in the Tagish Lake meteorite. Meteoritics and Planetary Science, 2012, 47, 1347-1364.	0.7	106
54	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103

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55	Formation of Uracil from the Ultraviolet Photo-Irradiation of Pyrimidine in Pure H₂O Ices. Astrobiology, 2009, 9, 683-695.	1.5	99
56	Alternative bases in the RNA world: The prebiotic synthesis of urazole and its ribosides. Journal of Molecular Evolution, 1994, 38, 549-57.	0.8	98
57	Side Group Addition to the Polycyclic Aromatic Hydrocarbon Coronene by Ultraviolet Photolysis in Cosmic Ice Analogs. Astrophysical Journal, 2002, 576, 1115-1120.	1.6	97
58	The OSIRIS-REx Spacecraft and the Touch-and-Go Sample Acquisition Mechanism (TAGSAM). Space Science Reviews, 2018, 214, 1.	3.7	92
59	Ultraviolet irradiation of naphthalene in H₂O ice: Implications for meteorites and biogenesis. Meteoritics and Planetary Science, 2001, 36, 351-358.	0.7	82
60	A Plausible Simultaneous Synthesis of Amino Acids and Simple Peptides on the Primordial Earth. Angewandte Chemie - International Edition, 2014, 53, 8132-8136.	7.2	82
61	On the Origin of Primitive Cells: From Nutrient Intake to Elongation of Encapsulated Nucleotides. Angewandte Chemie - International Edition, 2010, 49, 3738-3750.	7.2	79
62	Amino Acids from Ion-Irradiated Nitrile-Containing Ices. Astrobiology, 2008, 8, 771-779.	1.5	77
63	Compoundâ€specific carbon, nitrogen, and hydrogen isotopic ratios for amino acids in CM and CR chondrites and their use in evaluating potential formation pathways. Meteoritics and Planetary Science, 2012, 47, 1517-1536.	0.7	77
64	Bright carbonate veins on asteroid (101955) Bennu: Implications for aqueous alteration history. Science, 2020, 370, .	6.0	71
65	Chemistry and Physics of Primitive Membranes. , 0, , 1-27.		70
66	A propensity for nâ€‰â€amino acids in thermally altered Antarctic meteorites. Meteoritics and Planetary Science, 2012, 47, 374-386.	0.7	66
67	The Origin and Evolution of Organic Matter in Carbonaceous Chondrites and Links to Their Parent Bodies. , 2018, , 205-271.		60
68	Prebiotic Synthesis of Methionine and Other Sulfur-Containing Organic Compounds on the Primitive Earth: A Contemporary Reassessment Based on an Unpublished 1958 Stanley Miller Experiment. Origins of Life and Evolution of Biospheres, 2011, 41, 201-212.	0.8	59
69	Fall, recovery, and characterization of the Novato L6 chondrite breccia. Meteoritics and Planetary Science, 2014, 49, 1388-1425.	0.7	59
70	The amino acid composition of the Sutter's Mill <scp>CM</scp>2 carbonaceous chondrite. Meteoritics and Planetary Science, 2014, 49, 2074-2086.	0.7	57
71	Assessment and control of organic and other contaminants associated with the Stardust sample return from comet 81P/Wild 2. Meteoritics and Planetary Science, 2010, 45, 406-433.	0.7	55
72	Identifying the wide diversity of extraterrestrial purine and pyrimidine nucleobases in carbonaceous meteorites. Nature Communications, 2022, 13, 2008.	5.8	53

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73	Does aspartic acid racemization constrain the depth limit of the subsurface biosphere?. Geobiology, 2014, 12, 1-19.	1.1	52
74	Amino acid composition, petrology, geochemistry, ¹⁴C terrestrial age and oxygen isotopes of the ShiÅŸr 033 CR chondrite. Meteoritics and Planetary Science, 2007, 42, 1581-1595.	0.7	50
75	Extraterrestrial amino acids in the Almahata Sitta meteorite. Meteoritics and Planetary Science, 2010, 45, 1695-1709.	0.7	50
76	OSIRIS-REx Contamination Control Strategy and Implementation. Space Science Reviews, 2018, 214, 1.	3.7	50
77	The influence of mineralogy on recovering organic acids from Mars analogue materials using the â€œone-potâ€•derivatization experiment on the Sample Analysis at Mars (SAM) instrument suite. Planetary and Space Science, 2012, 67, 1-13.	0.9	49
78	Extraterrestrial amino acids identified in metalâ€•rich <scp>CH</scp> and <scp>CB</scp> carbonaceous chondrites from Antarctica. Meteoritics and Planetary Science, 2013, 48, 390-402.	0.7	48
79	Investigation of pyridine carboxylic acids in CM2 carbonaceous chondrites: Potential precursor molecules for ancient coenzymes. Geochimica Et Cosmochimica Acta, 2014, 136, 1-12.	1.6	47
80	A kinetic estimate of the free aldehyde content of aldoses. Carbohydrate Research, 2000, 329, 359-365.	1.1	46
81	Ultraviolet photolysis of anthracene in H₂O interstellar ice analogs: Potential connection to meteoritic organics. Meteoritics and Planetary Science, 2007, 42, 2035-2041.	0.7	46
82	The effects of parent-body hydrothermal heating on amino acid abundances in CI-like chondrites. Polar Science, 2014, 8, 255-263.	0.5	46
83	Pathways to Meteoritic Glycine and Methylamine. ACS Earth and Space Chemistry, 2017, 1, 3-13.	1.2	46
84	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.	1.6	45
85	A search for amino acids and nucleobases in the Martian meteorite Roberts Massif 04262 using liquid chromatographyâ€•mass spectrometry. Meteoritics and Planetary Science, 2013, 48, 786-795.	0.7	43
86	Extraterrestrial amino acids and Lâ€•enantiomeric excesses in the <scp>CM</scp>2 carbonaceous chondrites Aguas Zarcas and Murchison. Meteoritics and Planetary Science, 2021, 56, 148-173.	0.7	42
87	Abundant extraterrestrial amino acids in the primitive CM carbonaceous chondrite Asuka 12236. Meteoritics and Planetary Science, 2020, 55, 1979-2006.	0.7	38
88	Hydrothermal Decomposition of Amino Acids and Origins of Prebiotic Meteoritic Organic Compounds. ACS Earth and Space Chemistry, 2018, 2, 588-598.	1.2	37
89	Distribution and Stable Isotopic Composition of Amino Acids from Fungal Peptaibiotics: Assessing the Potential for Meteoritic Contamination. Astrobiology, 2011, 11, 123-133.	1.5	36
90	Amino acid analyses of R and CK chondrites. Meteoritics and Planetary Science, 2015, 50, 470-482.	0.7	36

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91	Particle Size-Frequency Distributions of the OSIRIS-REx Candidate Sample Sites on Asteroid (101955) Bennu. Remote Sensing, 2021, 13, 1315.	1.8	33
92	Extraterrestrial hexamethylenetetramine in meteoritesâ€"a precursor of prebiotic chemistry in the inner solar system. Nature Communications, 2020, 11, 6243.	5.8	32
93	Planning Considerations Related to the Organic Contamination of Martian Samples and Implications for the Mars 2020 Rover. Astrobiology, 2014, 14, 969-1027.	1.5	31
94	Methodologies for Analyzing Soluble Organic Compounds in Extraterrestrial Samples: Amino Acids, Amines, Monocarboxylic Acids, Aldehydes, and Ketones. Life, 2019, 9, 47.	1.1	31
95	Polycyclic aromatic hydrocarbons and amino acids in meteorites and ice samples from LaPaz Icefield, Antarctica. Meteoritics and Planetary Science, 2008, 43, 1465-1480.	0.7	30
96	Indigenous aliphatic amines in the aqueously altered Orgueil meteorite. Meteoritics and Planetary Science, 2015, 50, 1733-1749.	0.7	30
97	The SariÃ§iÃ§ek howardite fall in Turkey: Source crater of <scp>HED</scp> meteorites on Vesta and impact risk of Vestoids. Meteoritics and Planetary Science, 2019, 54, 953-1008.	0.7	30
98	Analyses of Aliphatic Aldehydes and Ketones in Carbonaceous Chondrites. ACS Earth and Space Chemistry, 2019, 3, 463-472.	1.2	30
99	Amino acid analysis in micrograms of meteorite sample by nanoliquid chromatographyâ€"high-resolution mass spectrometry. Journal of Chromatography A, 2014, 1332, 30-34.	1.8	29
100	Aliphatic amines in Antarctic CR2, CM2, and CM1/2 carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2016, 189, 296-311.	1.6	29
101	Organic molecules revealed in Marsâ€™s Bagnold Dunes by Curiosityâ€™s derivatization experiment. Nature Astronomy, 2022, 6, 129-140.	4.2	29
102	Heterogeneous distributions of amino acids provide evidence of multiple sources within the Almahata Sitta parent body, asteroid 2008 TC₃. Meteoritics and Planetary Science, 2011, 46, 1703-1712.	0.7	28
103	Amino acids generated from hydrated Titan tholins: Comparison with Millerâ€"Urey electric discharge products. Icarus, 2014, 237, 182-189.	1.1	28
104	Organometallic compounds as carriers of extraterrestrial cyanide in primitive meteorites. Nature Communications, 2019, 10, 2777.	5.8	28
105	Luminescence from Vacuumâ€Ultravioletâ€"irradiated Cosmic Ice Analogs and Residues. Astrophysical Journal, 2003, 583, 514-523.	1.6	26
106	Airfall on Comet 67P/Churyumovâ€"Gerasimenko. Icarus, 2021, 354, 114004.	1.1	26
107	Biological contamination studies of lunar landing sites: implications for future planetary protection and life detection on the Moon and Mars. International Journal of Astrobiology, 2004, 3, 265-271.	0.9	25
108	Impact of Phyllosilicates on Amino Acid Formation under Asteroidal Conditions. ACS Earth and Space Chemistry, 2020, 4, 1398-1407.	1.2	25

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109	Analysis of amino acids, hydroxy acids, and amines in CR chondrites. Meteoritics and Planetary Science, 2020, 55, 2422-2439.	0.7	25
110	An evolutionary connection between interstellar ices and IDPs? Clues from mass spectroscopy measurements of laboratory simulations. Advances in Space Research, 2004, 33, 67-71.	1.2	24
111	VAPoR â€“ Volatile Analysis by Pyrolysis of Regolith â€“ an instrument for in situ detection of water, noble gases, and organics on the Moon. Planetary and Space Science, 2010, 58, 1007-1017.	0.9	24
112	The impact and recovery of asteroid 2018 LA. Meteoritics and Planetary Science, 2021, 56, 844-893.	0.7	21
113	The OSIRIS-REx asteroid sample return mission. , 2015, , .		20
114	Crater population on asteroid (101955) Bennu indicates impact armouring and a young surface. Nature Geoscience, 2022, 15, 440-446.	5.4	20
115	Effect of polychromatic Xâ€ray microtomography imaging on the amino acid content of the Murchison <scp>CM</scp> chondrite. Meteoritics and Planetary Science, 2019, 54, 220-228.	0.7	19
116	Enhanced Synthesis of Alkyl Amino Acids in Millerâ€™s 1958 H2S Experiment. Origins of Life and Evolution of Biospheres, 2011, 41, 569-574.	0.8	18
117	Sequence Analysis of Trimer Isomers Formed by Montmorillonite Catalysis in the Reaction of Binary Monomer Mixtures. Astrobiology, 2007, 7, 715-722.	1.5	17
118	Rapid Radiolytic Degradation of Amino Acids in the Martian Shallow Subsurface: Implications for the Search for Extinct Life. Astrobiology, 2022, 22, 1099-1115.	1.5	17
119	Inconclusive evidence for nonterrestrial isoleucine enantiomeric excesses in primitive meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3288-E3288.	3.3	16
120	The origin of amino acids in lunar regolith samples. Geochimica Et Cosmochimica Acta, 2016, 172, 357-369.	1.6	15
121	Molecular distribution, ¹³Câ€isotope, and enantiomeric compositions of carbonaceous chondrite monocarboxylic acids. Meteoritics and Planetary Science, 2019, 54, 415-430.	0.7	15
122	Effect of a synchrotron Xâ€ray microtomography imaging experiment on the amino acid content of a <scp>CM</scp> chondrite. Meteoritics and Planetary Science, 2016, 51, 429-437.	0.7	14
123	Application of TMAH thermochemolysis to the detection of nucleobases: Application to the MOMA and SAM space experiment. Talanta, 2019, 204, 802-811.	2.9	14
124	Assessing the Sampleability of Bennuâ€™s Surface for the OSIRIS-REx Asteroid Sample Return Mission. Space Science Reviews, 2022, 218, 20.	3.7	12
125	Prebiotic Alternatives to Proteins: Structure and Function of Hyperbranched Polyesters. Origins of Life and Evolution of Biospheres, 2015, 45, 123-137.	0.8	11
126	The SPECTRAL Ice Chamber: Application to Titanâ€™s Stratospheric Ice Clouds. Astrophysical Journal, 2018, 865, 62.	1.6	11

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127	Investigating the effects of gamma radiation on selected chemicals for use in biosignature detection instruments on the surface of Jupiter's moon Europa. Planetary and Space Science, 2019, 175, 1-12.	0.9	11
128	Extraterrestrial organic compounds and cyanide in the CM2 carbonaceous chondrites Aguas Zarcas and Murchison. Meteoritics and Planetary Science, 2020, 55, 1509-1524.	0.7	11
129	Abiotic formation of RNA-like oligomers by montmorillonite catalysis: part II. International Journal of Astrobiology, 2008, 7, 1-7.	0.9	10
130	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.	0.7	10
131	Amino acid abundances and compositions in iron and stonyâ€iron meteorites. Meteoritics and Planetary Science, 2021, 56, 586-600.	0.7	10
132	Composition of organics on asteroid (101955) Bennu. Astronomy and Astrophysics, 2021, 653, L1.	2.1	10
133	Volatile Analysis by Pyrolysis of Regolith for planetary resource exploration. , 2012, , .		9
134	The CM carbonaceous chondrite regolith Diepenveen. Meteoritics and Planetary Science, 2019, 54, 1431-1461.	0.7	9
135	Ultraviolet irradiation of the polycyclic aromatic hydrocarbon (PAH) naphthalene in H2O. Implications for meteorites and biogenesis. Advances in Space Research, 2002, 30, 1501-1508.	1.2	8
136	In Situ Biological Contamination Studies of the Moon: Implications for Planetary Protection and Life Detection Missions. Earth, Moon and Planets, 2010, 107, 87-93.	0.3	8
137	Organics Analyzer for Sampling Icy Surfaces: A liquid chromatograph-mass spectrometer for future in situ small body missions. , 2013, , .		8
138	Conducting Miller-Urey Experiments. Journal of Visualized Experiments, 2014, , e51039.	0.2	8
139	Non-enzymatic synthesis of the coenzymes, uridine diphosphate glucose and cytidine diphosphate choline, and other phosphorylated metabolic intermediates. Origins of Life and Evolution of Biospheres, 1987, 17, 307-319.	0.8	7
140	Outgassing from the OSIRIS-REx sample return capsule: characterization and mitigation. Acta Astronautica, 2020, 166, 391-399.	1.7	7
141	COSPAR Sample Safety Assessment Framework (SSAF). Astrobiology, 2022, 22, S-186-S-216.	1.5	7
142	Isovaline monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1829-o1830.	0.2	6
143	Evidence for perchlorates and the origin of chlorinated hydrocarbons detected by SAM at the rocknest aeolian deposit in gale crater. Journal of Geophysical Research E: Planets, 2013, , n/a-n/a.	1.5	6
144	Nonâ€protein amino acids identified in carbonâ€rich Hayabusa particles. Meteoritics and Planetary Science, 2022, 57, 776-793.	0.7	6

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145	Attempted prebiotic synthesis of pseudouridine. , 1997, 27, 345-355.		5
146	Prokaryotic and Fungal Characterization of the Facilities Used to Assemble, Test, and Launch the OSIRIS-REx Spacecraft. Frontiers in Microbiology, 2020, 11, 530661.	1.5	5
147	The Sample Analysis at Mars Investigation and Instrument Suite. , 2012, , 401-478.		5
148	Extraterrestrial hydroxy amino acids in CM and CR carbonaceous chondrites. Meteoritics and Planetary Science, 2021, 56, 1005-1023.	0.7	4
149	Liquid chromatography-mass spectrometry interface for detection of extraterrestrial organics. , 2014, , .		3
150	A sensitive quantitative analysis of abiotically synthesized short homopeptides using ultraperformance liquid chromatography and time-of-flight mass spectrometry. Journal of Chromatography A, 2020, 1630, 461509.	1.8	3
151	Effect of polychromatic x-ray microtomography imaging on the amino acid content of the Murchison CM chondrite. Meteoritics and Planetary Science, 2018, 54, 220-228.	0.7	3
152	Spontaneous Oligomerization of Nucleotide Alternatives in Aqueous Solutions. Origins of Life and Evolution of Biospheres, 2017, 47, 3-11.	0.8	2
153	2-Methylaspartic acid monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1856-o1857.	0.2	2
154	Non-enzymatic synthesis of UDPG and phosphorylated metabolic intermediates. Origins of Life and Evolution of Biospheres, 1986, 16, 388-389.	0.8	1
155	The CAESAR New Frontiers Comet Sample Return Mission. Microscopy and Microanalysis, 2018, 24, 2104-2105.	0.2	1
156	Low total abundances and a predominance of n â€ï‰â€amino acids in enstatite chondrites: Implications for thermal stability of amino acids in the inner solar system. Meteoritics and Planetary Science, 2021, 56, 2118.	0.7	1
157	Experimental and Theoretical Constraints on Amino Acid Formation from PAHs in Asteroidal Settings. ACS Earth and Space Chemistry, 2022, 6, 468-481.	1.2	1
158	Analysis of Organics: interstellar synthesis and in situ chemical derivatization of amino acids. , 2006, , .		0
159	1-Azaniumylcyclobutane-1-carboxylate monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o217-o218.	0.2	0
160	Correlating Mineralogy and Amino Acid Contents of Milligram-Scale Murchison Carbonaceous Chondrite Samples. Microscopy and Microanalysis, 2015, 21, 2263-2264.	0.2	0
161	A Template for Scientific Press Releases and Science News Articles. Annals of Improbable Research, 2004, 10, 12-14.	0.0	0
162	In situ instrument to detect prebiotic compounds in planetary ices. SPIE Newsroom, 0, , .	0.1	0

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163	Chromatographic Coelution. , 2015, , 451-452.		0