

Jason Dworkin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4292651/publications.pdf>

Version: 2024-02-01

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	Organic molecules revealed in Mars's Bagnold Dunes by Curiosity's derivatization experiment. <i>Nature Astronomy</i> , 2022, 6, 129-140.	4.2	29
2	Experimental and Theoretical Constraints on Amino Acid Formation from PAHs in Asteroidal Settings. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 468-481.	1.2	1
3	Non-protein amino acids identified in carbon-rich Hayabusa particles. <i>Meteoritics and Planetary Science</i> , 2022, 57, 776-793.	0.7	6
4	Crater population on asteroid (101955) Bennu indicates impact armouring and a young surface. <i>Nature Geoscience</i> , 2022, 15, 440-446.	5.4	20
5	Assessing the Sampleability of Bennu's Surface for the OSIRIS-REx Asteroid Sample Return Mission. <i>Space Science Reviews</i> , 2022, 218, 20.	3.7	12
6	Identifying the wide diversity of extraterrestrial purine and pyrimidine nucleobases in carbonaceous meteorites. <i>Nature Communications</i> , 2022, 13, 2008.	5.8	53
7	COSPAR Sample Safety Assessment Framework (SSAF). <i>Astrobiology</i> , 2022, 22, S-186-S-216.	1.5	7
8	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.	1.5	17
9	Extraterrestrial amino acids and L-enantiomeric excesses in the <sc>CM</sc>2 carbonaceous chondrites Aguas Zarcas and Murchison. <i>Meteoritics and Planetary Science</i> , 2021, 56, 148-173.	0.7	42
10	Airfall on Comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2021, 354, 114004.	1.1	26
11	Particle Size-Frequency Distributions of the OSIRIS-REx Candidate Sample Sites on Asteroid (101955) Bennu. <i>Remote Sensing</i> , 2021, 13, 1315.	1.8	33
12	Amino acid abundances and compositions in iron and stony-iron meteorites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 586-600.	0.7	10
13	The impact and recovery of asteroid 2018 LA. <i>Meteoritics and Planetary Science</i> , 2021, 56, 844-893.	0.7	21
14	Extraterrestrial hydroxy amino acids in CM and CR carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1005-1023.	0.7	4
15	Composition of organics on asteroid (101955) Bennu. <i>Astronomy and Astrophysics</i> , 2021, 653, L1.	2.1	10
16	Low total abundances and a predominance of n-acyl 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.	0.7	1
17	Outgassing from the OSIRIS-REx sample return capsule: characterization and mitigation. <i>Acta Astronautica</i> , 2020, 166, 391-399.	1.7	7
18	The Search for Chiral Asymmetry as a Potential Biosignature in our Solar System. <i>Chemical Reviews</i> , 2020, 120, 4660-4689.	23.0	156

#	ARTICLE	IF	CITATIONS
19	Bright carbonate veins on asteroid (101955) Bennu: Implications for aqueous alteration history. <i>Science</i> , 2020, 370, .	6.0	71
20	A sensitive quantitative analysis of abiotically synthesized short homopeptides using ultraperformance liquid chromatography and time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1630, 461509.	1.8	3
21	Impact of Phyllosilicates on Amino Acid Formation under Asteroidal Conditions. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1398-1407.	1.2	25
22	Prokaryotic and Fungal Characterization of the Facilities Used to Assemble, Test, and Launch the OSIRIS-REx Spacecraft. <i>Frontiers in Microbiology</i> , 2020, 11, 530661.	1.5	5
23	Abundant extraterrestrial amino acids in the primitive CM carbonaceous chondrite Asuka 12236. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1979-2006.	0.7	38
24	Extraterrestrial hexamethylenetetramine in meteorites—a precursor of prebiotic chemistry in the inner solar system. <i>Nature Communications</i> , 2020, 11, 6243.	5.8	32
25	Extraterrestrial organic compounds and cyanide in the CM2 carbonaceous chondrites Aguas Zarcas and Murchison. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1509-1524.	0.7	11
26	Analysis of amino acids, hydroxy acids, and amines in CR chondrites. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2422-2439.	0.7	25
27	Effect of polychromatic X-ray microtomography imaging on the amino acid content of the Murchison CM chondrite. <i>Meteoritics and Planetary Science</i> , 2019, 54, 220-228.	0.7	19
28	Application of TMAH thermochemolysis to the detection of nucleobases: Application to the MOMA and SAM space experiment. <i>Talanta</i> , 2019, 204, 802-811.	2.9	14
29	Organometallic compounds as carriers of extraterrestrial cyanide in primitive meteorites. <i>Nature Communications</i> , 2019, 10, 2777.	5.8	28
30	Investigating the effects of gamma radiation on selected chemicals for use in biosignature detection instruments on the surface of Jupiter's moon Europa. <i>Planetary and Space Science</i> , 2019, 175, 1-12.	0.9	11
31	Methodologies for Analyzing Soluble Organic Compounds in Extraterrestrial Samples: Amino Acids, Amines, Monocarboxylic Acids, Aldehydes, and Ketones. <i>Life</i> , 2019, 9, 47.	1.1	31
32	The CM carbonaceous chondrite regolith Diepenveen. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1431-1461.	0.7	9
33	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. <i>Nature Geoscience</i> , 2019, 12, 242-246.	5.4	161
34	The unexpected surface of asteroid (101955) Bennu. <i>Nature</i> , 2019, 568, 55-60.	18.7	364
35	The SariÅŒsek howardite fall in Turkey: Source crater of HED meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	0.7	30
36	Analyses of Aliphatic Aldehydes and Ketones in Carbonaceous Chondrites. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 463-472.	1.2	30

#	ARTICLE	IF	CITATIONS
37	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
38	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. Science, 2019, 366, .	6.0	129
39	Molecular distribution, ¹³ C isotope, and enantiomeric compositions of carbonaceous chondrite monocarboxylic acids. Meteoritics and Planetary Science, 2019, 54, 415-430.	0.7	15
40	Hydrothermal Decomposition of Amino Acids and Origins of Prebiotic Meteoritic Organic Compounds. ACS Earth and Space Chemistry, 2018, 2, 588-598.	1.2	37
41	OSIRIS-REx Contamination Control Strategy and Implementation. Space Science Reviews, 2018, 214, 1.	3.7	50
42	The CAESAR New Frontiers Comet Sample Return Mission. Microscopy and Microanalysis, 2018, 24, 2104-2105.	0.2	1
43	The OSIRIS-REx Spacecraft and the Touch-and-Go Sample Acquisition Mechanism (TAGSAM). Space Science Reviews, 2018, 214, 1.	3.7	92
44	The SPECTRAL Ice Chamber: Application to Titan's Stratospheric Ice Clouds. Astrophysical Journal, 2018, 865, 62.	1.6	11
45	The Origin and Evolution of Organic Matter in Carbonaceous Chondrites and Links to Their Parent Bodies. , 2018, , 205-271.		60
46	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
47	Spontaneous Oligomerization of Nucleotide Alternatives in Aqueous Solutions. Origins of Life and Evolution of Biospheres, 2017, 47, 3-11.	0.8	2
48	Pathways to Meteoritic Glycine and Methylamine. ACS Earth and Space Chemistry, 2017, 1, 3-13.	1.2	46
49	Distribution of aliphatic amines in ^{CO} , ^{CV} , and ^{CK} carbonaceous chondrites and relation to mineralogy and processing history. Meteoritics and Planetary Science, 2017, 52, 2632-2646.	0.7	10
50	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. Space Science Reviews, 2017, 212, 925-984.	3.7	426
51	Nanopore DNA Sequencing and Genome Assembly on the International Space Station. Scientific Reports, 2017, 7, 18022.	1.6	264
52	Aliphatic amines in Antarctic CR2, CM2, and CM1/2 carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2016, 189, 296-311.	1.6	29
53	Effect of a synchrotron X-ray microtomography imaging experiment on the amino acid content of a ^{CM} chondrite. Meteoritics and Planetary Science, 2016, 51, 429-437.	0.7	14
54	Meteoritic Amino Acids: Diversity in Compositions Reflects Parent Body Histories. ACS Central Science, 2016, 2, 370-379.	5.3	126

#	ARTICLE	IF	CITATIONS
55	The origin of amino acids in lunar regolith samples. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 357-369.	1.6	15
56	Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 495-514.	1.5	375
57	The OSIRIS-REx asteroid sample return mission. , 2015, , .		20
58	Indigenous aliphatic amines in the aqueously altered Orgueil meteorite. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1733-1749.	0.7	30
59	Correlating Mineralogy and Amino Acid Contents of Milligram-Scale Murchison Carbonaceous Chondrite Samples. <i>Microscopy and Microanalysis</i> , 2015, 21, 2263-2264.	0.2	0
60	Amino acid analyses of R and CK chondrites. <i>Meteoritics and Planetary Science</i> , 2015, 50, 470-482.	0.7	36
61	Prebiotic Alternatives to Proteins: Structure and Function of Hyperbranched Polyesters. <i>Origins of Life and Evolution of Biospheres</i> , 2015, 45, 123-137.	0.8	11
62	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the <i>Curiosity</i> rover investigations at Gale crater, Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4245-4250.	3.3	172
63	The OSIRIS-REx target asteroid (101955) Bennu: Constraints on its physical, geological, and dynamical nature from astronomical observations. <i>Meteoritics and Planetary Science</i> , 2015, 50, 834-849.	0.7	168
64	Mars methane detection and variability at Gale crater. <i>Science</i> , 2015, 347, 415-417.	6.0	373
65	The imprint of atmospheric evolution in the D/H of Hesperian clay minerals on Mars. <i>Science</i> , 2015, 347, 412-414.	6.0	113
66	Chromatographic Coelution. , 2015, , 451-452.		0
67	Planning Considerations Related to the Organic Contamination of Martian Samples and Implications for the Mars 2020 Rover. <i>Astrobiology</i> , 2014, 14, 969-1027.	1.5	31
68	Does aspartic acid racemization constrain the depth limit of the subsurface biosphere?. <i>Geobiology</i> , 2014, 12, 1-19.	1.1	52
69	The amino acid composition of the Sutter's Mill ² carbonaceous chondrite. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2074-2086.	0.7	57
70	1-Azaniumylcyclobutane-1-carboxylate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o217-o218.	0.2	0
71	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245-1247.	6.0	323
72	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242-1247.	6.0	687

#	ARTICLE	IF	CITATIONS
73	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	6.0	508
74	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	6.0	475
75	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	6.0	224
76	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	6.0	246
77	Amino acid analysis in micrograms of meteorite sample by nanoliquid chromatography-high-resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1332, 30-34.	1.8	29
78	Liquid chromatography-mass spectrometry interface for detection of extraterrestrial organics. , 2014, , .		3
79	Assessing the origins of aliphatic amines in the Murchison meteorite from their compound-specific carbon isotopic ratios and enantiomeric composition. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 331-345.	1.6	45
80	A Plausible Simultaneous Synthesis of Amino Acids and Simple Peptides on the Primordial Earth. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8132-8136.	7.2	82
81	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1388-1425.	0.7	59
82	Investigation of pyridine carboxylic acids in CM2 carbonaceous chondrites: Potential precursor molecules for ancient coenzymes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 136, 1-12.	1.6	47
83	The effects of parent-body hydrothermal heating on amino acid abundances in CI-like chondrites. <i>Polar Science</i> , 2014, 8, 255-263.	0.5	46
84	Amino acids generated from hydrated Titan tholins: Comparison with Miller-Urey electric discharge products. <i>Icarus</i> , 2014, 237, 182-189.	1.1	28
85	Conducting Miller-Urey Experiments. <i>Journal of Visualized Experiments</i> , 2014, , e51039.	0.2	8
86	Organics Analyzer for Sampling Icy Surfaces: A liquid chromatograph-mass spectrometer for future in situ small body missions. , 2013, , .		8
87	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	6.0	327
88	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
89	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	6.0	327
90	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367

#	ARTICLE	IF	CITATIONS
91	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
92	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.	0.7	43
93	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
94	The Petrochemistry of Jake_M: A Martian Mugarite. Science, 2013, 341, 1239-463.	6.0	134
95	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238-670.	6.0	215
96	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103
97	Extraterrestrial amino acids identified in metal-rich CH ₃ and CB ₂ carbonaceous chondrites from Antarctica. Meteoritics and Planetary Science, 2013, 48, 390-402.	0.7	48
98	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
99	Isovaline monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1829-o1830.	0.2	6
100	2-Methylaspartic acid monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1856-o1857.	0.2	2
101	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
102	Unusual nonterrestrial proteinogenic amino acid excesses in the Tagish Lake meteorite. Meteoritics and Planetary Science, 2012, 47, 1347-1364.	0.7	106
103	Compound-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
104	Radar-Enabled Recovery of the Sutter's Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. Science, 2012, 338, 1583-1587.	6.0	191
105	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
106	Volatile Analysis by Pyrolysis of Regolith for planetary resource exploration. , 2012, , .		9
107	The Sample Analysis at Mars Investigation and Instrument Suite. Space Science Reviews, 2012, 170, 401-478.	3.7	435
108	Understanding prebiotic chemistry through the analysis of extraterrestrial amino acids and nucleobases in meteorites. Chemical Society Reviews, 2012, 41, 5459.	18.7	301

#	ARTICLE	IF	CITATIONS
109	A propensity for <i>D</i> -amino acids in thermally altered Antarctic meteorites. <i>Meteoritics and Planetary Science</i> , 2012, 47, 374-386.	0.7	66
110	The influence of mineralogy on recovering organic acids from Mars analogue materials using the one-pot derivatization experiment on the Sample Analysis at Mars (SAM) instrument suite. <i>Planetary and Space Science</i> , 2012, 67, 1-13.	0.9	49
111	The Sample Analysis at Mars Investigation and Instrument Suite. , 2012, , 401-478.		5
112	Distribution and Stable Isotopic Composition of Amino Acids from Fungal Peptaibiotics: Assessing the Potential for Meteoritic Contamination. <i>Astrobiology</i> , 2011, 11, 123-133.	1.5	36
113	Primordial synthesis of amines and amino acids in a 1958 Miller H ₂ S-rich spark discharge experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5526-5531.	3.3	232
114	Carbonaceous meteorites contain a wide range of extraterrestrial nucleobases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13995-13998.	3.3	460
115	Heterogeneous distributions of amino acids provide evidence of multiple sources within the Almahata Sitta parent body, asteroid 2008 TC ₃ . <i>Meteoritics and Planetary Science</i> , 2011, 46, 1703-1712.	0.7	28
116	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. <i>Science</i> , 2011, 332, 1304-1307.	6.0	189
117	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. <i>Origins of Life and Evolution of Biospheres</i> , 2011, 41, 201-212.	0.8	59
118	Enhanced Synthesis of Alkyl Amino Acids in Miller's 1958 H ₂ S Experiment. <i>Origins of Life and Evolution of Biospheres</i> , 2011, 41, 569-574.	0.8	18
119	In Situ Biological Contamination Studies of the Moon: Implications for Planetary Protection and Life Detection Missions. <i>Earth, Moon and Planets</i> , 2010, 107, 87-93.	0.3	8
120	On the Origin of Primitive Cells: From Nutrient Intake to Elongation of Encapsulated Nucleotides. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3738-3750.	7.2	79
121	VAPoR "Volatile Analysis by Pyrolysis of Regolith" an instrument for in situ detection of water, noble gases, and organics on the Moon. <i>Planetary and Space Science</i> , 2010, 58, 1007-1017.	0.9	24
122	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.	0.7	55
123	Extraterrestrial amino acids in the Almahata Sitta meteorite. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1695-1709.	0.7	50
124	The effects of parent body processes on amino acids in carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1948-1972.	0.7	218
125	Enrichment of the amino acid <i>L</i> -isovaline by aqueous alteration on CI and CM meteorite parent bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5487-5492.	3.3	264
126	Formation of Uracil from the Ultraviolet Photo-Irradiation of Pyrimidine in Pure H ₂ O Ices. <i>Astrobiology</i> , 2009, 9, 683-695.	1.5	99

#	ARTICLE	IF	CITATIONS
127	Cometary glycine detected in samples returned by Stardust. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1323-1330.	0.7	397
128	The Miller Volcanic Spark Discharge Experiment. <i>Science</i> , 2008, 322, 404-404.	6.0	298
129	Extraterrestrial nucleobases in the Murchison meteorite. <i>Earth and Planetary Science Letters</i> , 2008, 270, 130-136.	1.8	317
130	Detection of cometary amines in samples returned by Stardust. <i>Meteoritics and Planetary Science</i> , 2008, 43, 399-413.	0.7	117
131	Polycyclic aromatic hydrocarbons and amino acids in meteorites and ice samples from LaPaz Icefield, Antarctica. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1465-1480.	0.7	30
132	Molecular asymmetry in extraterrestrial chemistry: Insights from a pristine meteorite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3700-3704.	3.3	139
133	Abiotic formation of RNA-like oligomers by montmorillonite catalysis: part II. <i>International Journal of Astrobiology</i> , 2008, 7, 1-7.	0.9	10
134	Amino Acids from Ion-Irradiated Nitrile-Containing Ices. <i>Astrobiology</i> , 2008, 8, 771-779.	1.5	77
135	Mechanisms of Amino Acid Formation in Interstellar Ice Analogs. <i>Astrophysical Journal</i> , 2007, 660, 911-918.	1.6	192
136	A radical pathway for organic phosphorylation during schreibersite corrosion with implications for the origin of life. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1721-1736.	1.6	114
137	Amino acid composition, petrology, geochemistry, ¹⁴ C terrestrial age and oxygen isotopes of the ShiÅr 033 CR chondrite. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1581-1595.	0.7	50
138	Ultraviolet photolysis of anthracene in H ₂ O interstellar ice analogs: Potential connection to meteoritic organics. <i>Meteoritics and Planetary Science</i> , 2007, 42, 2035-2041.	0.7	46
139	Sequence Analysis of Trimer Isomers Formed by Montmorillonite Catalysis in the Reaction of Binary Monomer Mixtures. <i>Astrobiology</i> , 2007, 7, 715-722.	1.5	17
140	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	6.0	848
141	Amino acid analyses of Antarctic CM2 meteorites using liquid chromatography-time of flight-mass spectrometry. <i>Meteoritics and Planetary Science</i> , 2006, 41, 889-902.	0.7	167
142	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. <i>Science</i> , 2006, 314, 1720-1724.	6.0	519
143	Analysis of Organics: interstellar synthesis and in situ chemical derivatization of amino acids. , 2006, ,		0
144	Biological contamination studies of lunar landing sites: implications for future planetary protection and life detection on the Moon and Mars. <i>International Journal of Astrobiology</i> , 2004, 3, 265-271.	0.9	25

#	ARTICLE	IF	CITATIONS
145	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.	1.2	24
146	A Template for Scientific Press Releases and Science News Articles. <i>Annals of Improbable Research</i> , 2004, 10, 12-14.	0.0	0
147	The roads to and from the RNA world. <i>Journal of Theoretical Biology</i> , 2003, 222, 127-134.	0.8	131
148	Luminescence from Vacuum-Ultraviolet-irradiated Cosmic Ice Analogs and Residues. <i>Astrophysical Journal</i> , 2003, 583, 514-523.	1.6	26
149	Side Group Addition to the Polycyclic Aromatic Hydrocarbon Coronene by Ultraviolet Photolysis in Cosmic Ice Analogs. <i>Astrophysical Journal</i> , 2002, 576, 1115-1120.	1.6	97
150	The First Cell Membranes. <i>Astrobiology</i> , 2002, 2, 371-381.	1.5	231
151	Ultraviolet irradiation of the polycyclic aromatic hydrocarbon (PAH) naphthalene in H ₂ O. Implications for meteorites and biogenesis. <i>Advances in Space Research</i> , 2002, 30, 1501-1508.	1.2	8
152	Racemic amino acids from the ultraviolet photolysis of interstellar ice analogues. <i>Nature</i> , 2002, 416, 401-403.	13.7	702
153	Ultraviolet irradiation of naphthalene in H ₂ O ice: Implications for meteorites and biogenesis. <i>Meteoritics and Planetary Science</i> , 2001, 36, 351-358.	0.7	82
154	Assessment of the interstellar processes leading to deuterium enrichment in meteoritic organics. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1117-1133.	0.7	121
155	Self-assembling amphiphilic molecules: Synthesis in simulated interstellar/precometary ices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 815-819.	3.3	208
156	The Photostability of Amino Acids in Space. <i>Astrophysical Journal</i> , 2001, 550, L95-L99.	1.6	187
157	A kinetic estimate of the free aldehyde content of aldoses. <i>Carbohydrate Research</i> , 2000, 329, 359-365.	1.1	46
158	Attempted prebiotic synthesis of pseudouridine. , 1997, 27, 345-355.		5
159	Alternative bases in the RNA world: The prebiotic synthesis of urazole and its ribosides. <i>Journal of Molecular Evolution</i> , 1994, 38, 549-57.	0.8	98
160	Non-enzymatic synthesis of the coenzymes, uridine diphosphate glucose and cytidine diphosphate choline, and other phosphorylated metabolic intermediates. <i>Origins of Life and Evolution of Biospheres</i> , 1987, 17, 307-319.	0.8	7
161	Non-enzymatic synthesis of UDPG and phosphorylated metabolic intermediates. <i>Origins of Life and Evolution of Biospheres</i> , 1986, 16, 388-389.	0.8	1
162	Chemistry and Physics of Primitive Membranes. , 0, , 1-27.		70

#	ARTICLE	IF	CITATIONS
163	In situ instrument to detect prebiotic compounds in planetary ices. SPIE Newsroom, 0, , .	0.1	0