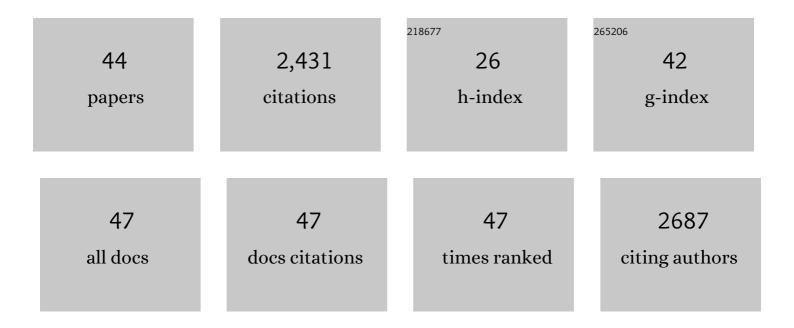
## Aaron S Burton

List of Publications by Year in descending order

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AARON S RUDTON

#	Article	IF	CITATIONS
1	Understanding prebiotic chemistry through the analysis of extraterrestrial amino acids and nucleobases in meteorites. Chemical Society Reviews, 2012, 41, 5459.	38.1	301
2	Nanopore DNA Sequencing and Genome Assembly on the International Space Station. Scientific Reports, 2017, 7, 18022.	3.3	264
3	Radar-Enabled Recovery of the Sutter's Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. Science, 2012, 338, 1583-1587.	12.6	191
4	The Search for Chiral Asymmetry as a Potential Biosignature in our Solar System. Chemical Reviews, 2020, 120, 4660-4689.	47.7	156
5	Meteoritic Amino Acids: Diversity in Compositions Reflects Parent Body Histories. ACS Central Science, 2016, 2, 370-379.	11.3	126
6	Unusual nonterrestrial <scp>l</scp> â€proteinogenic amino acid excesses in the Tagish Lake meteorite. Meteoritics and Planetary Science, 2012, 47, 1347-1364.	1.6	106
7	Perseverance's Scanning Habitable Environments with Raman and Luminescence for Organics and Chemicals (SHERLOC) Investigation. Space Science Reviews, 2021, 217, 1.	8.1	94
8	A Plausible Simultaneous Synthesis of Amino Acids and Simple Peptides on the Primordial Earth. Angewandte Chemie - International Edition, 2014, 53, 8132-8136.	13.8	82
9	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.	1.6	77
10	Nanopore sequencing in microgravity. Npj Microgravity, 2016, 2, 16035.	3.7	76
11	SHERLOC: Scanning habitable environments with Raman & luminescence for organics & chemicals. , 2015, , .		67
12	A propensity for <i>n</i> â€ï‰â€amino acids in thermally altered Antarctic meteorites. Meteoritics and Planetary Science, 2012, 47, 374-386.	1.6	66
13	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
14	Does aspartic acid racemization constrain the depth limit of the subsurface biosphere?. Geobiology, 2014, 12, 1-19.	2.4	52
15	OSIRIS-REx Contamination Control Strategy and Implementation. Space Science Reviews, 2018, 214, 1.	8.1	50
16	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.	1.6	48
17	Mineralogy, petrology, chronology, and exposure history of the Chelyabinsk meteorite and parent body. Meteoritics and Planetary Science, 2015, 50, 1790-1819.	1.6	48
18	The effects of parent-body hydrothermal heating on amino acid abundances in CI-like chondrites. Polar Science, 2014, 8, 255-263.	1.2	46

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#	Article	IF	CITATIONS
19	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.	1.6	43
20	Off Earth Identification of Bacterial Populations Using 16S rDNA Nanopore Sequencing. Genes, 2020, 11, 76.	2.4	43
21	Real-Time Culture-Independent Microbial Profiling Onboard the International Space Station Using Nanopore Sequencing. Genes, 2021, 12, 106.	2.4	41
22	RNA-directed construction of structurally complex and active ligase ribozymes through recombination. Rna, 2005, 11, 1678-1687.	3.5	39
23	Insights into Abiotically-Generated Amino Acid Enantiomeric Excesses Found in Meteorites. Life, 2018, 8, 14.	2.4	38
24	Amino acid analyses of R and CK chondrites. Meteoritics and Planetary Science, 2015, 50, 470-482.	1.6	36
25	Amino acid analysis in micrograms of meteorite sample by nanoliquid chromatography–high-resolution mass spectrometry. Journal of Chromatography A, 2014, 1332, 30-34.	3.7	29
26	Heterogeneous distributions of amino acids provide evidence of multiple sources within the Almahata Sitta parent body, asteroid 2008 TC <sub>3</sub> . Meteoritics and Planetary Science, 2011, 46, 1703-1712.	1.6	28
27	Analysis of amino acids, hydroxy acids, and amines in CR chondrites. Meteoritics and Planetary Science, 2020, 55, 2422-2439.	1.6	25
28	Radiation Tolerance of Nanopore Sequencing Technology for Life Detection on Mars and Europa. Scientific Reports, 2019, 9, 5370.	3.3	23
29	DNA Before Proteins? Recent Discoveries in Nucleic Acid Catalysis Strengthen the Case. Astrobiology, 2009, 9, 125-130.	3.0	22
30	Calcium(II)-dependent catalytic activity ofÂtheÂAzoarcus ribozyme: testing theÂlimits ofÂresolution forÂinÂvitro selection. Biochimie, 2006, 88, 819-825.	2.6	18
31	Calibration of the SHERLOC Deep Ultraviolet Fluorescence–Raman Spectrometer on the <i>Perseverance</i> Rover. Applied Spectroscopy, 2021, 75, 000370282110133.	2.2	18
32	Chirality in Organic and Mineral Systems: A Review of Reactivity and Alteration Processes Relevant to Prebiotic Chemistry and Life Detection Missions. Symmetry, 2022, 14, 460.	2.2	15
33	Gel purification of radiolabeled nucleic acids via phosphorimaging: Dip-N-Dot. Analytical Biochemistry, 2009, 388, 351-352.	2.4	11
34	Enhancing the Prebiotic Relevance of a Set of Covalently Self-Assembling, Autorecombining RNAs Through In Vitro Selection. Journal of Molecular Evolution, 2010, 70, 233-241.	1.8	10
35	The elusive quest for RNA knots. RNA Biology, 2016, 13, 134-139.	3.1	10
36	The CM carbonaceous chondrite regolith Diepenveen. Meteoritics and Planetary Science, 2019, 54, 1431-1461.	1.6	9

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37	Conducting Miller-Urey Experiments. Journal of Visualized Experiments, 2014, , e51039.	0.3	8
38	COSPAR Sample Safety Assessment Framework (SSAF). Astrobiology, 2022, 22, S-186-S-216.	3.0	7
39	Isovaline monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1829-o1830.	0.2	6
40	Visualization and identification of single meteoritic organic molecules by atomic force microscopy. Meteoritics and Planetary Science, 2022, 57, 644-656.	1.6	4
41	A "warm formamide―scenario for the origins of life might not be so hot. Physics of Life Reviews, 2012, 9, 114-115.	2.8	2
42	2-Methylaspartic acid monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1856-o1857.	0.2	2
43	1-Azaniumylcyclobutane-1-carboxylate monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o217-o218.	0.2	0
44	Correlating Mineralogy and Amino Acid Contents of Milligram-Scale Murchison Carbonaceous Chondrite Samples. Microscopy and Microanalysis, 2015, 21, 2263-2264.	0.4	0