

# Andrew D Aubrey

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5825218/publications.pdf>

Version: 2024-02-01

34  
papers

6,225  
citations

172207

29  
h-index

414034

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

5423  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
3	Mars's™ Surface Radiation Environment Measured with the Mars Science Laboratory's™ Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
4	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
5	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
6	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
7	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
8	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
9	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
10	Development and evaluation of a microdevice for amino acid biomarker detection and analysis on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1041-1046.	3.3	257
11	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
12	Primordial synthesis of amines and amino acids in a 1958 Miller H <sub>2</sub> 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
13	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224
14	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
15	Airborne methane remote measurements reveal heavy-tail flux distribution in Four Corners region. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9734-9739.	3.3	174
16	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
17	Sulfate minerals and organic compounds on Mars. Geology, 2006, 34, 357.	2.0	138
18	New insights from old bones: DNA preservation and degradation in permafrost preserved mammoth remains. Nucleic Acids Research, 2009, 37, 3215-3229.	6.5	137

#	ARTICLE	IF	CITATIONS
19	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	6.0	134
20	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	6.0	103
21	Mapping methane concentrations from a controlled release experiment using the next generation airborne visible/infrared imaging spectrometer (AVIRIS-NG). <i>Remote Sensing of Environment</i> , 2016, 179, 104-115.	4.6	101
22	Airborne DOAS retrievals of methane, carbon dioxide, and water vapor concentrations at high spatial resolution: application to AVIRIS-NG. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3833-3850.	1.2	72
23	High spatial resolution imaging of methane and other trace gases with the airborne Hyperspectral Thermal Emission Spectrometer (HyTES). <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2393-2408.	1.2	61
24	New Method for Estimating Bacterial Cell Abundances in Natural Samples by Use of Sublimation. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5923-5928.	1.4	55
25	Does aspartic acid racemization constrain the depth limit of the subsurface biosphere?. <i>Geobiology</i> , 2014, 12, 1-19.	1.1	52
26	Extraterrestrial amino acids in the Almahata Sitta meteorite. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1695-1709.	0.7	50
27	Organic amine biomarker detection in the Yungay region of the Atacama Desert with the Urey instrument. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	49
28	The Urey Instrument: An Advanced In Situ Organic and Oxidant Detector for Mars Exploration. <i>Astrobiology</i> , 2008, 8, 583-595.	1.5	40
29	Evaluating the effects of surface properties on methane retrievals using a synthetic airborne visible/infrared imaging spectrometer next generation (AVIRIS-NG) image. <i>Remote Sensing of Environment</i> , 2018, 215, 386-397.	4.6	32
30	Sublimation extraction coupled with gas chromatography-mass spectrometry: A new technique for future in situ analyses of purines and pyrimidines on Mars. <i>Planetary and Space Science</i> , 2006, 54, 1584-1591.	0.9	25
31	Characterization of anthropogenic methane plumes with the Hyperspectral Thermal Emission Spectrometer (HyTES): a retrieval method and error analysis. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3165-3173.	1.2	16
32	What Can <i>In Situ</i> Ion Chromatography Offer for Mars Exploration?. <i>Astrobiology</i> , 2014, 14, 577-588.	1.5	11
33	The Airborne Methane Plume Spectrometer (AMPS): Quantitative imaging of methane plumes in real time. , 2016, , .		11
34	Space Robotics Technologies for Deep Well Operations. , 2012, , .		3