

Andrew D Aubrey

List of Publications by Year in descending order

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34
papers

6,225
citations

172207

29
h-index

414034

32
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all docs

34
docs citations

34
times ranked

5423
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the effects of surface properties on methane retrievals using a synthetic airborne visible/infrared imaging spectrometer next generation (AVIRIS-NG) image. Remote Sensing of Environment, 2018, 215, 386-397.	4.6	32
2	Airborne DOAS retrievals of methane, carbon dioxide, and water vapor concentrations at high spatial resolution: application to AVIRIS-NG. Atmospheric Measurement Techniques, 2017, 10, 3833-3850.	1.2	72
3	Characterization of anthropogenic methane plumes with the Hyperspectral Thermal Emission Spectrometer (HyTES): a retrieval method and error analysis. Atmospheric Measurement Techniques, 2016, 9, 3165-3173.	1.2	16
4	High spatial resolution imaging of methane and other trace gases with the airborne Hyperspectral Thermal Emission Spectrometer (HyTES). Atmospheric Measurement Techniques, 2016, 9, 2393-2408.	1.2	61
5	Mapping methane concentrations from a controlled release experiment using the next generation airborne visible/infrared imaging spectrometer (AVIRIS-NG). Remote Sensing of Environment, 2016, 179, 104-115.	4.6	101
6	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
7	The Airborne Methane Plume Spectrometer (AMPS): Quantitative imaging of methane plumes in real time. , 2016, , .		11
8	Does aspartic acid racemization constrain the depth limit of the subsurface biosphere?. Geobiology, 2014, 12, 1-19.	1.1	52
9	What Can <i>In Situ</i> Ion Chromatography Offer for Mars Exploration?. Astrobiology, 2014, 14, 577-588.	1.5	11
10	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
11	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
12	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
13	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
14	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224
15	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
16	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
17	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
18	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327

#	ARTICLE	IF	CITATIONS
19	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367
20	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
21	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	6.0	134
22	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	6.0	215
23	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	6.0	103
24	Space Robotics Technologies for Deep Well Operations. , 2012, , .		3
25	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
26	Extraterrestrial amino acids in the Almahata Sitta meteorite. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1695-1709.	0.7	50
27	New insights from old bones: DNA preservation and degradation in permafrost preserved mammoth remains. <i>Nucleic Acids Research</i> , 2009, 37, 3215-3229.	6.5	137
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	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
30	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
31	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
32	Sulfate minerals and organic compounds on Mars. <i>Geology</i> , 2006, 34, 357.	2.0	138
33	Development and evaluation of a microdevice for amino acid biomarker detection and analysis on Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1041-1046.	3.3	257
34	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