

K-Michael Aye

List of Publications by Year in descending order

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37
papers

2,747
citations

304743

22
h-index

377865

34
g-index

38
all docs

38
docs citations

38
times ranked

2300
citing authors

#	ARTICLE	IF	CITATIONS
1	Planet Four: Derived South Polar Martian Winds Interpreted Using Mesoscale Modeling. Planetary Science Journal, 2022, 3, 31.	3.6	2
2	Modeling the complete set of Cassini's UVIS occultation observations of Enceladus's plume. Icarus, 2022, 383, 114918.	2.5	1
3	Irregular polygonal ridge networks in ancient Noachian terrain on Mars. Icarus, 2021, 374, 114833.	2.5	2
4	How martian araneiforms get their shapes: morphological analysis and diffusion-limited aggregation model for polar surface erosion. Icarus, 2020, 342, 113217.	2.5	8
5	SpicePy: a Pythonic Wrapper for the SPICE Toolkit. Journal of Open Source Software, 2020, 5, 2050.	4.6	49
6	Laboratory investigations of the physical state of CO ₂ ice in a simulated Martian environment. Icarus, 2019, 322, 210-220.	2.5	7
7	Seasonal Polar Temperatures on the Moon. Journal of Geophysical Research E: Planets, 2019, 124, 2505-2521.	3.6	80
8	Evidence for ultra-cold traps and surface water ice in the lunar south polar crater Amundsen. Icarus, 2019, 332, 1-13.	2.5	19
9	Planet Four: Probing springtime winds on Mars by mapping the southern polar CO ₂ jet deposits. Icarus, 2019, 319, 558-598.	2.5	18
10	Planet Four: Terrains " Discovery of araneiforms outside of the South Polar layered deposits. Icarus, 2018, 308, 148-187.	2.5	23
11	CO ₂ -Driven Geomorphological Processes. , 2018, , 187-205.		0
12	Investigation of diurnal variability of water vapor in Enceladus' plume by the Cassini ultraviolet imaging spectrograph. Geophysical Research Letters, 2017, 44, 672-677.	4.0	20
13	Diviner lunar radiometer gridded brightness temperatures from geodesic binning of modeled fields of view. Icarus, 2017, 298, 98-110.	2.5	10
14	Present-day erosion of Martian polar terrain by the seasonal CO ₂ jets. Icarus, 2017, 282, 93-103.	2.5	33
15	In-flight calibration of the Dawn Framing Camera. Icarus, 2013, 226, 1304-1317.	2.5	36
16	Observations of the northern seasonal polar cap on Mars II: HiRISE photometric analysis of evolution of northern polar dunes in spring. Icarus, 2013, 225, 898-910.	2.5	12
17	Observations of the northern seasonal polar cap on Mars III: CRISM/HiRISE observations of spring sublimation. Icarus, 2013, 225, 911-922.	2.5	25
18	Polygonal cracks in the seasonal semi-transparent CO ₂ ice layer in Martian polar areas. Journal of Geophysical Research, 2012, 117, .	3.3	29

#	ARTICLE	IF	CITATIONS
19	Evolution of south seasonal cap during Martian spring: Insights from high-resolution observations by HiRISE and CRISM on Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	36
20	Photometry and bulk physical properties of Solar System surfaces icy analogs: The Planetary Ice Laboratory at University of Bern. <i>Planetary and Space Science</i> , 2011, 59, 1601-1612.	1.7	33
21	Discovery of the binary pulsar PSR B1259-63 in very-high-energy gamma rays around periastron with HESS. <i>Astronomy and Astrophysics</i> , 2005, 442, 1-10.	5.1	285
22	H.E.S.S. observations of PKS 2155-304. <i>Astronomy and Astrophysics</i> , 2005, 430, 865-875.	5.1	133
23	Observations of Mkn 421 in 2004 with HESS at large zenith angles. <i>Astronomy and Astrophysics</i> , 2005, 437, 95-99.	5.1	61
24	A New Population of Very High Energy Gamma-Ray Sources in the Milky Way. <i>Science</i> , 2005, 307, 1938-1942.	12.6	249
25	$\hat{\Gamma}^3$ -Ray Generation in Microquasars: the link with AGN. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
26	Atmospheric sensing for the H.E.S.S. array. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
27	Discovery of Very High Energy Gamma Rays Associated with an X-ray Binary. <i>Science</i> , 2005, 309, 746-749.	12.6	277
28	Upper limits to the SN1006 multi-TeV gamma-ray flux from HESS observations. <i>Astronomy and Astrophysics</i> , 2005, 437, 135-139.	5.1	33
29	Search for TeV emission from the region around PSR B1706-44 with the HESS experiment. <i>Astronomy and Astrophysics</i> , 2005, 432, L9-L12.	5.1	15
30	Very high energy gamma rays from the composite SNR G 0.9+0.1. <i>Astronomy and Astrophysics</i> , 2005, 432, L25-L29.	5.1	117
31	Discovery of extended VHE gamma-ray emission from the asymmetric pulsar wind nebula in MSH 15-52 with HESS. <i>Astronomy and Astrophysics</i> , 2005, 435, L17-L20.	5.1	121
32	Discovery of VHE gamma rays from PKS 2005-489. <i>Astronomy and Astrophysics</i> , 2005, 436, L17-L20.	5.1	57
33	Serendipitous discovery of the unidentified extended TeV $\hat{\Gamma}^3$ -ray source HESS J1303-631. <i>Astronomy and Astrophysics</i> , 2005, 439, 1013-1021.	5.1	62
34	High-energy particle acceleration in the shell of a supernova remnant. <i>Nature</i> , 2004, 432, 75-77.	27.8	450
35	Calibration of cameras of the H.E.S.S. detector. <i>Astroparticle Physics</i> , 2004, 22, 109-125.	4.3	103
36	Very high energy gamma rays from the direction of Sagittarius A*. <i>Astronomy and Astrophysics</i> , 2004, 425, L13-L17.	5.1	332

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37	Very high energy gamma-rays from Centaurus X-3: Indications and implications. <i>Astronomy and Astrophysics</i> , 2002, 383, 864-880.	5.1	9