

Jeffrey Andrews-Hanna

List of Publications by Year in descending order

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45
papers

3,674
citations

186265
28
h-index

233421
45
g-index

45
all docs

45
docs citations

45
times ranked

2472
citing authors

#	ARTICLE	IF	CITATIONS
1	A South Poleâ€™s Aitken impact origin of the lunar compositional asymmetry. <i>Science Advances</i> , 2022, 8, eabm8475.	10.3	11
2	Probing the source of ancient linear gravity anomalies on the Moon. <i>Icarus</i> , 2022, 380, 114978.	2.5	4
3	Magnetic Anomalies in Five Lunar Impact Basins: Implications for Impactor Trajectories and Inverse Modeling. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006668.	3.6	6
4	The hydrology and climate of Mars during the sedimentary infilling of Gale crater. <i>Earth and Planetary Science Letters</i> , 2021, 568, 117032.	4.4	12
5	Investigating the roles of magmatic volatiles, ground ice and impact-triggering on a very recent and highly explosive volcanic eruption on Mars. <i>Earth and Planetary Science Letters</i> , 2021, 567, 116986.	4.4	9
6	Evidence for geologically recent explosive volcanism in Elysium Planitia, Mars. <i>Icarus</i> , 2021, 365, 114499.	2.5	39
7	The tectonic architecture of wrinkle ridges on Mars. <i>Icarus</i> , 2020, 351, 113937.	2.5	19
8	Radial gravity anomalies associated with the ejecta of the Orientale basin. <i>Icarus</i> , 2019, 319, 444-458.	2.5	3
9	The Case Against an Early Lunar Dynamo Powered by Core Convection. <i>Geophysical Research Letters</i> , 2018, 45, 98-107.	4.0	30
10	Ring faults and ring dikes around the Orientale basin on the Moon. <i>Icarus</i> , 2018, 310, 1-20.	2.5	31
11	Controls on the Formation of Lunar Multiring Basins. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3035-3050.	3.6	19
12	Reexamination of Early Lunar Chronology With GRAIL Data: Terranes, Basins, and Impact Fluxes. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1596-1617.	3.6	25
13	The anatomy of a wrinkle ridge revealed in the wall of Melas Chasma, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 889-900.	3.6	10
14	A post-accretionary lull in large impacts on early Mars. <i>Nature Geoscience</i> , 2017, 10, 344-348.	12.9	39
15	Reconstructing the past climate at Gale crater, Mars, from hydrological modeling of late-stage lakes. <i>Geophysical Research Letters</i> , 2017, 44, 8196-8204.	4.0	25
16	The influence of subsurface flow on lake formation and north polar lake distribution on Titan. <i>Icarus</i> , 2016, 277, 103-124.	2.5	20
17	The formation of the South Tharsis Ridge Belt: Basin and Range-style extension on early Mars?. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 916-943.	3.6	6
18	Identification of buried lunar impact craters from GRAIL data and implications for the nearside maria. <i>Geophysical Research Letters</i> , 2016, 43, 2445-2455.	4.0	56

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19	Formation of the Orientale lunar multiring basin. <i>Science</i> , 2016, 354, 441-444.	12.6	78
20	Gravity field of the Orientale basin from the Gravity Recovery and Interior Laboratory Mission. <i>Science</i> , 2016, 354, 438-441.	12.6	38
21	The fractured Moon: Production and saturation of porosity in the lunar highlands from impact cratering. <i>Geophysical Research Letters</i> , 2015, 42, 6939-6944.	4.0	63
22	Lunar impact basins revealed by Gravity Recovery and Interior Laboratory measurements. <i>Science Advances</i> , 2015, 1, e1500852.	10.3	173
23	GRAIL gravity constraints on the vertical and lateral density structure of the lunar crust. <i>Geophysical Research Letters</i> , 2014, 41, 5771-5777.	4.0	126
24	Structure and evolution of the lunar Procellarum region as revealed by GRAIL gravity data. <i>Nature</i> , 2014, 514, 68-71.	27.8	85
25	Lunar interior properties from the GRAIL mission. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1546-1578.	3.6	185
26	Ancient Igneous Intrusions and Early Expansion of the Moon Revealed by GRAIL Gravity Gradiometry. <i>Science</i> , 2013, 339, 675-678.	12.6	177
27	The Crust of the Moon as Seen by GRAIL. <i>Science</i> , 2013, 339, 671-675.	12.6	726
28	The volcanic history of Olympus Mons from paleo-topography and flexural modeling. <i>Earth and Planetary Science Letters</i> , 2013, 363, 88-96.	4.4	91
29	The origin of the non-mare mascon gravity anomalies in lunar basins. <i>Icarus</i> , 2013, 222, 159-168.	2.5	35
30	Evidence for ring-faults around the Orientale basin on the Moon from gravity. <i>Icarus</i> , 2013, 226, 694-707.	2.5	15
31	The Origin of Lunar Mascon Basins. <i>Science</i> , 2013, 340, 1552-1555.	12.6	174
32	Reconstructing the distribution and depositional history of the sedimentary deposits of Arabia Terra, Mars. <i>Icarus</i> , 2012, 220, 311-330.	2.5	66
33	Density variations within the south polar layered deposits of Mars. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
34	The formation of Valles Marineris: 1. Tectonic architecture and the relative roles of extension and subsidence. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
35	The formation of Valles Marineris: 2. Stress focusing along the buried dichotomy boundary. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
36	The formation of Valles Marineris: 3. Trough formation through superisostasy, stress, sedimentation, and subsidence. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	40

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37	Early Mars hydrology: 2. Hydrological evolution in the Noachian and Hesperian epochs. Journal of Geophysical Research, 2011, 116, .	3.3	112
38	Stratigraphy of hydrated sulfates in the sedimentary deposits of Aram Chaos, Mars. Journal of Geophysical Research, 2010, 115, .	3.3	74
39	Early Mars hydrology: Meridiani playa deposits and the sedimentary record of Arabia Terra. Journal of Geophysical Research, 2010, 115, .	3.3	148
40	A mega-landslide on Mars. Nature Geoscience, 2009, 2, 248-249.	12.9	7
41	Evidence for the origin of layered deposits in Candor Chasma, Mars, from mineral composition and hydrologic modeling. Journal of Geophysical Research, 2009, 114, .	3.3	159
42	The Borealis basin and the origin of the martian crustal dichotomy. Nature, 2008, 453, 1212-1215.	27.8	285
43	Strike-slip faults on Mars: Observations and implications for global tectonics and geodynamics. Journal of Geophysical Research, 2008, 113, .	3.3	62
44	Density of Mars' South Polar Layered Deposits. Science, 2007, 317, 1718-1719.	12.6	94
45	Meridiani Planum and the global hydrology of Mars. Nature, 2007, 446, 163-166.	27.8	223