Jeffrey Andrews-Hanna

List of Publications by Year
in descending order

45	3,674	186265	233421
papers	citations	28 h-index	45 g-index

45	45	45	2472
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Crust of the Moon as Seen by GRAIL. Science, 2013, 339, 671-675.	12.6	726
2	The Borealis basin and the origin of the martian crustal dichotomy. Nature, 2008, 453, 1212-1215.	27.8	285
3	Meridiani Planum and the global hydrology of Mars. Nature, 2007, 446, 163-166.	27.8	223
4	Lunar interior properties from the GRAIL mission. Journal of Geophysical Research E: Planets, 2014, 119, 1546-1578.	3.6	185
5	Ancient Igneous Intrusions and Early Expansion of the Moon Revealed by GRAIL Gravity Gradiometry. Science, 2013, 339, 675-678.	12.6	177
6	The Origin of Lunar Mascon Basins. Science, 2013, 340, 1552-1555.	12.6	174
7	Lunar impact basins revealed by Gravity Recovery and Interior Laboratory measurements. Science Advances, 2015, 1, e1500852.	10.3	173
8	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
9	Early Mars hydrology: Meridiani playa deposits and the sedimentary record of Arabia Terra. Journal of Geophysical Research, 2010, 115, .	3.3	148
10	GRAIL gravity constraints on the vertical and lateral density structure of the lunar crust. Geophysical Research Letters, 2014, 41, 5771-5777.	4.0	126
11	Early Mars hydrology: 2. Hydrological evolution in the Noachian and Hesperian epochs. Journal of Geophysical Research, 2011, 116, .	3.3	112
12	Density of Mars' South Polar Layered Deposits. Science, 2007, 317, 1718-1719.	12.6	94
13	The volcanic history of Olympus Mons from paleo-topography and flexural modeling. Earth and Planetary Science Letters, 2013, 363, 88-96.	4.4	91
14	Structure and evolution of the lunar Procellarum region as revealed by GRAIL gravity data. Nature, 2014, 514, 68-71.	27.8	85
15	Formation of the Orientale lunar multiring basin. Science, 2016, 354, 441-444.	12.6	78
16	Stratigraphy of hydrated sulfates in the sedimentary deposits of Aram Chaos, Mars. Journal of Geophysical Research, 2010, 115, .	3.3	74
17	Reconstructing the distribution and depositional history of the sedimentary deposits of Arabia Terra, Mars. Icarus, 2012, 220, 311-330.	2.5	66
18	The fractured Moon: Production and saturation of porosity in the lunar highlands from impact cratering. Geophysical Research Letters, 2015, 42, 6939-6944.	4.0	63

#	Article	IF	Citations
19	Strikeâ€slip faults on Mars: Observations and implications for global tectonics and geodynamics. Journal of Geophysical Research, 2008, 113, .	3.3	62
20	Identification of buried lunar impact craters from GRAIL data and implications for the nearside maria. Geophysical Research Letters, 2016, 43, 2445-2455.	4.0	56
21	The formation of Valles Marineris: 3. Trough formation through superâ€isostasy, stress, sedimentation, and subsidence. Journal of Geophysical Research, 2012, 117, .	3.3	40
22	A post-accretionary lull in large impacts on earlyÂMars. Nature Geoscience, 2017, 10, 344-348.	12.9	39
23	Evidence for geologically recent explosive volcanism in Elysium Planitia, Mars. Icarus, 2021, 365, 114499.	2.5	39
24	Gravity field of the Orientale basin from the Gravity Recovery and Interior Laboratory Mission. Science, 2016, 354, 438-441.	12.6	38
25	The origin of the non-mare mascon gravity anomalies in lunar basins. Icarus, 2013, 222, 159-168.	2.5	35
26	The formation of Valles Marineris: 1. Tectonic architecture and the relative roles of extension and subsidence. Journal of Geophysical Research, 2012, 117, .	3.3	33
27	Ring faults and ring dikes around the Orientale basin on the Moon. Icarus, 2018, 310, 1-20.	2.5	31
28	The Case Against an Early Lunar Dynamo Powered by Core Convection. Geophysical Research Letters, 2018, 45, 98-107.	4.0	30
29	The formation of Valles Marineris: 2. Stress focusing along the buried dichotomy boundary. Journal of Geophysical Research, 2012, 117, .	3.3	27
30	Reexamination of Early Lunar Chronology With GRAIL Data: Terranes, Basins, and Impact Fluxes. Journal of Geophysical Research E: Planets, 2018, 123, 1596-1617.	3.6	25
31	Reconstructing the past climate at Gale crater, Mars, from hydrological modeling of lateâ€stage lakes. Geophysical Research Letters, 2017, 44, 8196-8204.	4.0	25
32	The influence of subsurface flow on lake formation and north polar lake distribution on Titan. Icarus, 2016, 277, 103-124.	2.5	20
33	Controls on the Formation of Lunar Multiring Basins. Journal of Geophysical Research E: Planets, 2018, 123, 3035-3050.	3.6	19
34	The tectonic architecture of wrinkle ridges on Mars. Icarus, 2020, 351, 113937.	2.5	19
35	Evidence for ring-faults around the Orientale basin on the Moon from gravity. Icarus, 2013, 226, 694-707.	2.5	15
36	Density variations within the south polar layered deposits of Mars. Journal of Geophysical Research, 2012, 117, .	3.3	14

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37	The hydrology and climate of Mars during the sedimentary infilling of Gale crater. Earth and Planetary Science Letters, 2021, 568, 117032.	4.4	12
38	A South Poleâ€“Aitken impact origin of the lunar compositional asymmetry. Science Advances, 2022, 8, eabm8475.	10.3	11
39	The anatomy of a wrinkle ridge revealed in the wall of Melas Chasma, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 889-900.	3.6	10
40	Investigating the roles of magmatic volatiles, ground ice and impact-triggering on a very recent and highly explosive volcanic eruption on Mars. Earth and Planetary Science Letters, 2021, 567, 116986.	4.4	9
41	A mega-landslide on Mars. Nature Geoscience, 2009, 2, 248-249.	12.9	7
42	The formation of the South Tharsis Ridge Belt: Basin and Rangeâ€style extension on early Mars?. Journal of Geophysical Research E: Planets, 2016, 121, 916-943.	3.6	6
43	Magnetic Anomalies in Five Lunar Impact Basins: Implications for Impactor Trajectories and Inverse Modeling. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006668.	3.6	6
44	Probing the source of ancient linear gravity anomalies on the Moon. Icarus, 2022, 380, 114978.	2.5	4
45	Radial gravity anomalies associated with the ejecta of the Orientale basin. Icarus, 2019, 319, 444-458.	2.5	3