

Steven A Hauck II

List of Publications by Year in descending order

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59
papers

5,386
citations

117625

34
h-index

206112

48
g-index

60
all docs

60
docs citations

60
times ranked

3251
citing authors

#	ARTICLE	IF	CITATIONS
1	Science Goals and Mission Concept for a Landed Investigation of Mercury. Planetary Science Journal, 2022, 3, 68.	3.6	2
2	In Appreciation of Our 2019 Peer Reviewers. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006420.	3.6	0
3	Thank You to Our 2018 Peer Reviewers. Journal of Geophysical Research E: Planets, 2019, 124, 867-870.	3.6	0
4	Mercury: Inside the Iron Planet. Elements, 2019, 15, 21-26.	0.5	6
5	Geodetic Evidence That Mercury Has A Solid Inner Core. Geophysical Research Letters, 2019, 46, 3625-3633.	4.0	80
6	Sharing Planetary Science in Plain Language. Journal of Geophysical Research E: Planets, 2019, 124, 2462-2464.	3.6	7
7	Thank You to Our 2017 Peer Reviewers. Journal of Geophysical Research E: Planets, 2018, 123, 319-321.	3.6	0
8	Earth's inner core nucleation paradox. Earth and Planetary Science Letters, 2018, 487, 9-20.	4.4	31
9	Mercury's Internal Structure. , 2018, , 85-113.		26
10	Mercury's Global Evolution. , 2018, , 516-543.		8
11	Thank you to our 2016 peer reviewers. Journal of Geophysical Research E: Planets, 2017, 122, 292-294.	3.6	0
12	MESSENGER observations of induced magnetic fields in Mercury's core. Geophysical Research Letters, 2016, 43, 2436-2444.	4.0	51
13	Twenty five years of planetary science: Discoveries and new questions. Journal of Geophysical Research E: Planets, 2016, 121, 1829-1830.	3.6	0
14	A whole new Mercury: MESSENGER reveals a dynamic planet at the last frontier of the inner solar system. Journal of Geophysical Research E: Planets, 2016, 121, 2349-2362.	3.6	13
15	The 2015 peer reviewer appreciation. Journal of Geophysical Research E: Planets, 2016, 121, 108-110.	3.6	2
16	Consequences of a solid inner core on Mercury's spin configuration. Icarus, 2016, 264, 443-455.	2.5	27
17	Distribution of large-scale contractional tectonic landforms on Mercury: Implications for the origin of global stresses. Geophysical Research Letters, 2015, 42, 3755-3763.	4.0	29
18	The low-degree shape of Mercury. Geophysical Research Letters, 2015, 42, 6951-6958.	4.0	36

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19	Appreciation of Peer Reviewers for 2014. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 359-361.	3.6	0
20	Evidence for geochemical terranes on Mercury: Global mapping of major elements with MESSENGER's X-Ray Spectrometer. <i>Earth and Planetary Science Letters</i> , 2015, 416, 109-120.	4.4	167
21	Low-altitude magnetic field measurements by MESSENGER reveal Mercury's ancient crustal field. <i>Science</i> , 2015, 348, 892-895.	12.6	89
22	Mercury's global contraction much greater than earlier estimates. <i>Nature Geoscience</i> , 2014, 7, 301-307.	12.9	181
23	Effect of core-mantle and tidal torques on Mercury's spin axis orientation. <i>Icarus</i> , 2014, 231, 206-220.	2.5	18
24	The tides of Mercury and possible implications for its interior structure. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 850-866.	3.6	43
25	Thermal evolution of Mercury as constrained by MESSENGER observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1033-1044.	3.6	63
26	On the origin of mascon basins on the Moon (and beyond). <i>Geophysical Research Letters</i> , 2013, 40, 28-32.	4.0	17
27	The curious case of Mercury's internal structure. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1204-1220.	3.6	210
28	The redox state, FeO content, and origin of sulfur-rich magmas on Mercury. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 138-146.	3.6	112
29	Gravity Field and Internal Structure of Mercury from MESSENGER. <i>Science</i> , 2012, 336, 214-217.	12.6	305
30	Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. <i>Science</i> , 2012, 336, 217-220.	12.6	223
31	Magnesium-rich crustal compositions on Mercury: Implications for magmatism from petrologic modeling. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	83
32	Mercury's moment of inertia from spin and gravity data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	98
33	Radioactive Elements on Mercury's Surface from MESSENGER: Implications for the Planet's Formation and Evolution. <i>Science</i> , 2011, 333, 1850-1852.	12.6	233
34	Introduction to the special issue of <i>Icarus</i> on "Mercury after Two MESSENGER Flybys". <i>Icarus</i> , 2010, 209, 1-2.	2.5	0
35	Accommodation of lithospheric shortening on Mercury from altimetric profiles of ridges and lobate scarps measured during MESSENGER flybys 1 and 2. <i>Icarus</i> , 2010, 209, 247-255.	2.5	29
36	The equatorial shape and gravity field of Mercury from MESSENGER flybys 1 and 2. <i>Icarus</i> , 2010, 209, 88-100.	2.5	43

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37	Iron snow zones as a mechanism for generating Mercury's weak observed magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	69
38	Lithospheric structure and tectonics at Isidis Planitia, Mars. <i>Icarus</i> , 2009, 201, 528-539.	2.5	34
39	The tectonics of Mercury: The view after MESSENGER's first flyby. <i>Earth and Planetary Science Letters</i> , 2009, 285, 283-296.	4.4	135
40	Despinning plus global contraction and the orientation of lobate scarps on Mercury: Predictions for MESSENGER. <i>Icarus</i> , 2008, 198, 274-276.	2.5	38
41	Strike-slip faults on Mars: Observations and implications for global tectonics and geodynamics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	62
42	Non-ideal liquidus curve in the Fe-S system and Mercury's snowing core. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	111
43	Laser Altimeter Observations from MESSENGER's First Mercury Flyby. <i>Science</i> , 2008, 321, 77-79.	12.6	44
44	Interior Evolution of Mercury. <i>Space Sciences Series of ISSI</i> , 2008, , 47-78.	0.0	1
45	A Reappraisal of The Habitability of Planets around M Dwarf Stars. <i>Astrobiology</i> , 2007, 7, 30-65.	3.0	286
46	Predicted recovery of Mercury's internal structure by MESSENGER. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	27
47	Interior Evolution of Mercury. <i>Space Science Reviews</i> , 2007, 132, 229-260.	8.1	71
48	The Geophysics of Mercury: Current Status and Anticipated Insights from the MESSENGER Mission. <i>Space Science Reviews</i> , 2007, 131, 105-132.	8.1	27
49	The Geophysics of Mercury: Current Status and Anticipated Insights from the MESSENGER Mission. , 2007, , 105-132.		0
50	Sulfur's impact on core evolution and magnetic field generation on Ganymede. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	96
51	New Perspectives on Ancient Mars. <i>Science</i> , 2005, 307, 1214-1220.	12.6	265
52	Internal and tectonic evolution of Mercury. <i>Earth and Planetary Science Letters</i> , 2004, 222, 713-728.	4.4	163
53	Thermal and crustal evolution of Mars. <i>Journal of Geophysical Research</i> , 2002, 107, 6-1.	3.3	262
54	Climate and interior coupled evolution on Venus. <i>Geophysical Research Letters</i> , 2001, 28, 1779-1782.	4.0	53

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55	Ancient Geodynamics and Global-Scale Hydrology on Mars. <i>Science</i> , 2001, 291, 2587-2591.	12.6	453
56	The Global Topography of Mars and Implications for Surface Evolution. <i>Science</i> , 1999, 284, 1495-1503.	12.6	826
57	Variable conductivity: Effects on the thermal structure of subducting slabs. <i>Geophysical Research Letters</i> , 1999, 26, 3257-3260.	4.0	37
58	Venus: Crater distribution and plains resurfacing models. <i>Journal of Geophysical Research</i> , 1998, 103, 13635-13642.	3.3	94
59	The case for landed Mercury science. <i>Experimental Astronomy</i> , 0, , 1.	3.7	0