

David J Lawrence

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

158
papers

8,080
citations

48
h-index

86
g-index

169
ext. papers

9,026
ext. citations

8
avg. IF

5.34
L-index

#	Paper	IF	Citations
158	Global distribution of neutrons from Mars: results from Mars odyssey. <i>Science</i> , 2002 , 297, 75-8	33.3	424
157	Fluxes of fast and epithermal neutrons from Lunar Prospector: evidence for water ice at the lunar poles. <i>Science</i> , 1998 , 281, 1496-500	33.3	394
156	Global distribution of near-surface hydrogen on Mars. <i>Journal of Geophysical Research</i> , 2004 , 109,		361
155	Dawn at Vesta: testing the protoplanetary paradigm. <i>Science</i> , 2012 , 336, 684-6	33.3	356
154	The major-element composition of Mercury's surface from MESSENGER X-ray spectrometry. <i>Science</i> , 2011 , 333, 1847-50	33.3	312
153	Elemental composition of the lunar surface: Analysis of gamma ray spectroscopy data from Lunar Prospector. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		264
152	Global elemental maps of the moon: the Lunar Prospector gamma-Ray spectrometer. <i>Science</i> , 1998 , 281, 1484-9	33.3	225
151	Evidence for water ice near the lunar poles. <i>Journal of Geophysical Research</i> , 2001 , 106, 23231-23251		205
150	Radioactive elements on Mercury's surface from MESSENGER: implications for the planet's formation and evolution. <i>Science</i> , 2011 , 333, 1850-2	33.3	195
149	Elemental mapping by Dawn reveals exogenic H in Vesta's regolith. <i>Science</i> , 2012 , 338, 242-6	33.3	181
148	Iron abundances on the lunar surface as measured by the Lunar Prospector gamma-ray and neutron spectrometers. <i>Journal of Geophysical Research</i> , 2002 , 107, 13-1-13-26		175
147	Polar hydrogen deposits on the Moon. <i>Journal of Geophysical Research</i> , 2000 , 105, 4175-4195		167
146	Thorium abundances on the lunar surface. <i>Journal of Geophysical Research</i> , 2000 , 105, 20307-20331		159
145	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. <i>Science</i> , 2016 , 353, 1008-1010	33.3	157
144	The MESSENGER Gamma-Ray and Neutron Spectrometer. <i>Space Science Reviews</i> , 2007 , 131, 339-391	7.5	152
143	Extensive water ice within Ceres' aqueously altered regolith: Evidence from nuclear spectroscopy. <i>Science</i> , 2017 , 355, 55-59	33.3	146
142	Evidence for water ice near Mercury's north pole from MESSENGER Neutron Spectrometer measurements. <i>Science</i> , 2013 , 339, 292-6	33.3	146

141	Return to Mercury: a global perspective on MESSENGER's first Mercury flyby. <i>Science</i> , 2008 , 321, 59-62	33.3	143
140	Small-area thorium features on the lunar surface. <i>Journal of Geophysical Research</i> , 2003 , 108,		136
139	Major-element abundances on the surface of Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		121
138	Improved modeling of Lunar Prospector neutron spectrometer data: Implications for hydrogen deposits at the lunar poles. <i>Journal of Geophysical Research</i> , 2006 , 111,		119
137	Magmatic volatiles (H, C, N, F, S, Cl) in the lunar mantle, crust, and regolith: Abundances, distributions, processes, and reservoirs. <i>American Mineralogist</i> , 2015 , 100, 1668-1707	2.9	114
136	Lunar rare earth element distribution and ramifications for FeO and TiO ₂ : Lunar Prospector neutron spectrometer observations. <i>Journal of Geophysical Research</i> , 2000 , 105, 20333-20345		111
135	Composition and structure of the Martian surface at high southern latitudes from neutron spectroscopy. <i>Journal of Geophysical Research</i> , 2004 , 109,		94
134	Remote sensing evidence for an ancient carbon-bearing crust on Mercury. <i>Nature Geoscience</i> , 2016 , 9, 273-276	18.3	90
133	Gamma-Ray, Neutron, and Alpha-Particle Spectrometers for the Lunar Prospector mission. <i>Journal of Geophysical Research</i> , 2004 , 109,		89
132	Mercury's Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. <i>Space Science Reviews</i> , 2014 , 181, 121-214	7.5	84
131	MCNPX benchmark for cosmic ray interactions with the Moon. <i>Journal of Geophysical Research</i> , 2006 , 111,		81
130	Variations in the abundances of potassium and thorium on the surface of Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		76
129	Major compositional units of the moon: lunar prospector thermal and fast neutrons. <i>Science</i> , 1998 , 281, 1489-93	33.3	74
128	Enhanced sodium abundance in Mercury's north polar region revealed by the MESSENGER Gamma-Ray Spectrometer. <i>Icarus</i> , 2014 , 228, 86-95	3.8	73
127	Chemical information content of lunar thermal and epithermal neutrons. <i>Journal of Geophysical Research</i> , 2000 , 105, 20347-20363		72
126	Lunar Fe and Ti abundances: comparison of lunar prospector and clementine data. <i>Science</i> , 1998 , 281, 1493-6	33.3	70
125	Reduction of neutron data from Lunar Prospector. <i>Journal of Geophysical Research</i> , 2004 , 109,		68
124	High resolution measurements of absolute thorium abundances on the lunar surface. <i>Geophysical Research Letters</i> , 1999 , 26, 2681-2684	4.9	66

123	Lunar Prospector neutron spectrometer constraints on TiO ₂ . <i>Journal of Geophysical Research</i> , 2002 , 107, 8-1		65
122	Geochemical terranes of Mercury's northern hemisphere as revealed by MESSENGER neutron measurements. <i>Icarus</i> , 2015 , 253, 346-363	3.8	62
121	Lunar true polar wander inferred from polar hydrogen. <i>Nature</i> , 2016 , 531, 480-4	50.4	62
120	Refined thorium abundances for lunar red spots: Implications for evolved, nonmare volcanism on the Moon. <i>Journal of Geophysical Research</i> , 2006 , 111,		56
119	Gamma-ray measurements from Lunar Prospector: Time series data reduction for the Gamma-Ray Spectrometer. <i>Journal of Geophysical Research</i> , 2004 , 109,		56
118	Models of the distribution and abundance of hydrogen at the lunar south pole. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	53
117	Chlorine on the surface of Mercury: MESSENGER gamma-ray measurements and implications for the planet's formation and evolution. <i>Icarus</i> , 2015 , 257, 417-427	3.8	51
116	Identification and measurement of neutron-absorbing elements on Mercury's surface. <i>Icarus</i> , 2010 , 209, 195-209	3.8	51
115	Measurements of early and late time plasmasphere refilling as observed from geosynchronous orbit. <i>Journal of Geophysical Research</i> , 1999 , 104, 14691-14704		51
114	Mars Odyssey neutron data: 1. Data processing and models of water-equivalent-hydrogen distribution. <i>Journal of Geophysical Research</i> , 2011 , 116,		49
113	Constraints on the abundance of carbon in near-surface materials on Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. <i>Planetary and Space Science</i> , 2015 , 108, 98-107	2	48
112	Global spatial deconvolution of Lunar Prospector Th abundances. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	48
111	Hydrated states of MgSO ₄ at equatorial latitudes on Mars. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	48
110	Two-dimensional distribution of volatiles in the lunar regolith from space weathering simulations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	47
109	Neutron absorption constraints on the composition of 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2013 , 48, 2211-2236	2.8	44
108	High-energy neutrons from the Moon. <i>Journal of Geophysical Research</i> , 2000 , 105, 20365-20375		44
107	Compositional variability on the surface of 4 Vesta revealed through GRaND measurements of high-energy gamma rays. <i>Meteoritics and Planetary Science</i> , 2013 , 48, 2252-2270	2.8	43
106	Mars Odyssey neutron data: 2. Search for buried excess water ice deposits at nonpolar latitudes on Mars. <i>Journal of Geophysical Research</i> , 2011 , 116,		42

105	2. Understanding the Lunar Surface and Space-Moon Interactions 2006 , 83-220		40
104	Farside explorer: unique science from a mission to the farside of the moon. <i>Experimental Astronomy</i> , 2012 , 33, 529-585	1.3	38
103	Ice concentration and distribution near the south pole of Mars: Synthesis of odyssey and global surveyor analyses. <i>Geophysical Research Letters</i> , 2002 , 29, 10-1-10-4	4.9	36
102	A tale of two poles: Toward understanding the presence, distribution, and origin of volatiles at the polar regions of the Moon and Mercury. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 21-52	4.1	34
101	TARANISA Satellite Project Dedicated to the Physics of TLEs and TGFs. <i>Space Science Reviews</i> , 2008 , 137, 301-315	7.5	34
100	A comprehensive survey of plasmasphere refilling at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2001 , 106, 25615-25629		33
99	Hansteen Alpha: A volcanic construct in the lunar highlands. <i>Journal of Geophysical Research</i> , 2003 , 108,		32
98	Deep Space One Investigations of Ion Propulsion Plasma Environment. <i>Journal of Spacecraft and Rockets</i> , 2000 , 37, 545-555	1.5	32
97	Distribution of iron on Vesta. <i>Meteoritics and Planetary Science</i> , 2013 , 48, 2237-2251	2.8	31
96	Vertical distribution of hydrogen at high northern latitudes on Mars: The Mars Odyssey Neutron Spectrometer. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	31
95	Topographic control of hydrogen deposits at low latitudes to midlatitudes of Mars. <i>Journal of Geophysical Research</i> , 2005 , 110,		31
94	Energetic Electron Acceleration and Injection During Dipolarization Events in Mercury's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 12,170-12,188	2.6	30
93	MESSENGER observations of transient bursts of energetic electrons in Mercury's magnetosphere. <i>Science</i> , 2011 , 333, 1865-8	33.3	28
92	Observations, Meteorites, and Models: A Preflight Assessment of the Composition and Formation of (16) Psyche. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006296	4.1	27
91	Comprehensive survey of energetic electron events in Mercury's magnetosphere with data from the MESSENGER Gamma-Ray and Neutron Spectrometer. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2851-2876	2.6	26
90	Hydrogen and major element concentrations on 433 Eros: Evidence for an L- or LL-chondrite-like surface composition. <i>Meteoritics and Planetary Science</i> , 2015 , 50, 353-367	2.8	25
89	Evidence for extended acceleration of solar flare ions from 18 MeV solar neutrons detected with the MESSENGER Neutron Spectrometer. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		25
88	Recent outgassing from the lunar surface: The Lunar Prospector Alpha Particle Spectrometer. <i>Journal of Geophysical Research</i> , 2005 , 110,		25

87	Constraints on Vesta's elemental composition: Fast neutron measurements by Dawn's gamma ray and neutron detector. <i>Meteoritics and Planetary Science</i> , 2013 , 48, 2271-2288	2.8	24
86	Integration of the Clementine UV-VIS spectral reflectance data and the Lunar Prospector gamma-ray spectrometer data: A global-scale multielement analysis of the lunar surface using iron, titanium, and thorium abundances. <i>Journal of Geophysical Research</i> , 2002 , 107, 15-1-15-14		24
85	Intense energetic electron flux enhancements in Mercury's magnetosphere: An integrated view with high-resolution observations from MESSENGER. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2171-2184	2.6	24
84	Remote sensing and geologic studies of the Balmer-Kapteyn region of the Moon. <i>Journal of Geophysical Research</i> , 2005 , 110,		23
83	Global distribution of lunar composition: New results from Lunar Prospector. <i>Journal of Geophysical Research</i> , 2002 , 107, 5-1		23
82	Compositional terranes on Mercury: Information from fast neutrons. <i>Icarus</i> , 2017 , 281, 32-45	3.8	22
81	Using HED meteorites to interpret neutron and gamma-ray data from asteroid 4 Vesta. <i>Meteoritics and Planetary Science</i> , 2015 , 50, 1311-1337	2.8	22
80	Technical comment on "Hydrogen mapping of the lunar South Pole using the LRO neutron detector experiment LEND". <i>Science</i> , 2011 , 334, 1058-c	33.3	22
79	Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. <i>Astrophysical Journal</i> , 2018 , 856, 139	4.7	21
78	How well do we know the polar hydrogen distribution on the Moon?. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 574-593	4.1	21
77	Aluminum abundance on the surface of Mercury: Application of a new background-reduction technique for the analysis of gamma-ray spectroscopy data. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
76	Reflection of solar wind hydrogen from the lunar surface. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 292-305	4.1	21
75	Thorium abundances on the Aristarchus plateau: Insights into the composition of the Aristarchus pyroclastic glass deposits. <i>Journal of Geophysical Research</i> , 2009 , 114,		21
74	Evidence for explosive silicic volcanism on the Moon from the extended distribution of thorium near the Compton-Belkovich Volcanic Complex. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 92-108	4.1	20
73	Performance of orbital neutron instruments for spatially resolved hydrogen measurements of airless planetary bodies. <i>Astrobiology</i> , 2010 , 10, 183-200	3.7	20
72	Evidence for a high-Th, evolved lithology on the Moon at Hansteen Alpha. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	20
71	Sensitivity of orbital neutron measurements to the thickness and abundance of surficial lunar water. <i>Journal of Geophysical Research</i> , 2011 , 116,		19
70	Plasma Experiment for Planetary Exploration (PEPE). <i>Space Science Reviews</i> , 2007 , 129, 327-357	7.5	19

69	How thick are Mercury's polar water ice deposits?. <i>Icarus</i> , 2017 , 284, 407-415	3.8	18
68	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022 , 74,	2.9	18
67	Ion Mobility Spectrometry - High Resolution LTQ-Orbitrap Mass Spectrometry for Analysis of Homemade Explosives. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1531-1539	3.5	17
66	Latitude variation of the subsurface lunar temperature: Lunar Prospector thermal neutrons. <i>Journal of Geophysical Research</i> , 2003 , 108,		17
65	Measuring the Elemental Composition of Phobos: The Mars-moon Exploration with GAMMA rays and NEutrons (MEGANE) Investigation for the Martian Moons eXploration (MMX) Mission. <i>Earth and Space Science</i> , 2019 , 6, 2605-2623	3.1	17
64	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021 , 2, 130	2.9	17
63	Galactic cosmic ray variations in the inner heliosphere from solar distances less than 0.5 AU: Measurements from the MESSENGER Neutron Spectrometer. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7398-7406	2.6	16
62	A QUANTITATIVE COMPARISON OF LUNAR ORBITAL NEUTRON DATA. <i>Astrophysical Journal</i> , 2012 , 747, 6	4.7	16
61	Analysis of MESSENGER Gamma-Ray Spectrometer data from the Mercury flybys. <i>Planetary and Space Science</i> , 2011 , 59, 1829-1841	2	16
60	Deep Space 1 encounter with Comet 19P/Borrelly: Ion composition measurements by the PEPE mass spectrometer. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	16
59	Identification of surface hydrogen enhancements within the Moon's Shackleton crater. <i>Icarus</i> , 2014 , 233, 229-232	3.8	14
58	Bulk hydrogen abundances in the lunar highlands: Measurements from orbital neutron data. <i>Icarus</i> , 2015 , 255, 127-134	3.8	13
57	Thorium abundances of basalt ponds in South Pole-Aitken basin: Insights into the composition and evolution of the far side lunar mantle. <i>Journal of Geophysical Research</i> , 2011 , 116,		13
56	New views of the Moon: Improved understanding through data integration. <i>Eos</i> , 2000 , 81, 349	1.5	13
55	Multi-spacecraft observations and transport simulations of solar energetic particles for the May 17th 2012 event. <i>Astronomy and Astrophysics</i> , 2018 , 612, A116	5.1	12
54	Enhanced hydrogen at the lunar poles: New insights from the detection of epithermal and fast neutron signatures. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		12
53	Recharge mechanism of near-equatorial hydrogen on Mars: Atmospheric redistribution or sub-surface aquifer. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	12
52	2018 ,		12

51	DePhine □The Deimos and Phobos Interior Explorer. <i>Advances in Space Research</i> , 2018 , 62, 2220-2238	2.4	11
50	Lunar Prospector epithermal neutrons from impact craters and landing sites: Implications for surface maturity and hydrogen distribution. <i>Journal of Geophysical Research</i> , 2002 , 107, 3-1		11
49	Igneous lithologies on asteroid (4) Vesta mapped using gamma-ray and neutron data. <i>Icarus</i> , 2017 , 286, 35-45	3.8	10
48	Detection and characterization of 0.58 MeV neutrons near Mercury: Evidence for a solar origin. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5150-5171	2.6	10
47	New insights into the global composition of the lunar surface from high-energy gamma rays measured by Lunar Prospector. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 671-688	4.1	10
46	Surface and downhole prospecting tools for planetary exploration: tests of neutron and gamma ray probes. <i>Astrobiology</i> , 2008 , 8, 639-52	3.7	10
45	Composition and origin of the Dewar geochemical anomaly. <i>Journal of Geophysical Research</i> , 2008 , 113,		9
44	Plasmaspheric observations at geosynchronous orbit. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001 , 63, 1185-1197	2	9
43	Science operation plan of Phobos and Deimos from the MMX spacecraft. <i>Earth, Planets and Space</i> , 2021 , 73,	2.9	9
42	Solar influence on nuclear decay rates: constraints from the MESSENGER mission. <i>Astrophysics and Space Science</i> , 2012 , 337, 39-45	1.6	8
41	Mapping iron abundances on the surface of Mercury: Predicted spatial resolution of the MESSENGER Gamma-Ray Spectrometer. <i>Planetary and Space Science</i> , 2011 , 59, 1654-1658	2	8
40	Geochemistry of the lunar highlands as revealed by measurements of thermal neutrons. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 388-401	4.1	8
39	Image Reconstruction Techniques in Neutron and Gamma Ray Spectroscopy: Improving Lunar Prospector Data. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1804-1822	4.1	7
38	Near-space operation of compact CsI, CLYC, and CeBr3 sensors: Results from two high-altitude balloon flights. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 905, 33-46	1.2	7
37	Compositional variability on the surface of 1 Ceres revealed through GRaND measurements of high-energy gamma rays. <i>Meteoritics and Planetary Science</i> , 2018 , 53, 1805-1819	2.8	7
36	Radiation damage and annealing of three coaxial n-type germanium detectors: Preparation for spaceflight missions to asteroid 16 Psyche and Mars□moon Phobos. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 942, 162-169	1.2	6
35	Chemically distinct regions of Venus□atmosphere revealed by measured N2 concentrations. <i>Nature Astronomy</i> , 2020 , 4, 947-950	12.1	6
34	Neutrons and energetic charged particles in the inner heliosphere: Measurements of the MESSENGER Neutron Spectrometer from 0.3 to 0.85 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 841-854	2.6	6

33	Predictions of MESSENGER Neutron Spectrometer measurements for Mercury's north polar region. <i>Planetary and Space Science</i> , 2011 , 59, 1665-1669	2	6
32	Mercury's Polar Deposits 2018 , 346-370		6
31	Cosmogenic radionuclide production modeling with Geant4: Experimental benchmarking and application to nuclear spectroscopy of asteroid (16) Psyche. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 446, 43-57	1.2	5
30	The effect of craters on the lunar neutron flux. <i>Journal of Geophysical Research E: Planets</i> , 2015 , 120, 1377-1395	4.1	5
29	Mapping the elemental composition of Ceres and Vesta: Dawn's gamma ray and neutron detector 2004 ,		5
28	Statistical analysis of thorium and fast neutron data at the lunar surface. <i>Journal of Geophysical Research</i> , 2002 , 107, 2-1		5
27	Space-based measurement of the neutron lifetime using data from the neutron spectrometer on NASA's MESSENGER mission. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
26	High-resolution mapping of lunar polar hydrogen with a low-resource orbital mission. <i>Acta Astronautica</i> , 2015 , 115, 452-462	2.9	4
25	The neutron, gamma-ray, X-ray spectrometer (NGXS): A compact instrument for making combined measurements of neutrons, gamma-rays, and X-rays. <i>Acta Astronautica</i> , 2014 , 93, 524-529	2.9	4
24	The 4 June 2011 neutron event at Mercury: A defense of the solar origin hypothesis. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5284-5289	2.6	4
23	TESTING THE UNITARITY OF THE CKM MATRIX WITH A SPACE-BASED NEUTRON DECAY EXPERIMENT. <i>Modern Physics Letters A</i> , 2008 , 23, 1735-1743	1.3	4
22	MESSENGER Gamma Ray Spectrometer and Epithermal Neutron Hydrogen Data Reveal Compositional Differences Between Mercury's Hot and Cold Poles. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 721-733	4.1	3
21	Gamma rays and cosmic rays at Venus: The Pioneer Venus gamma ray detector and considerations for future measurements. <i>Planetary and Space Science</i> , 2015 , 109-110, 129-134	2	3
20	Surveying the South Pole-Aitken basin magnetic anomaly for remnant impactor metallic iron. <i>Icarus</i> , 2014 , 243, 27-30	3.8	3
19	Statistical Study of Mercury's Energetic Electron Events as Observed by the Gamma-Ray and Neutron Spectrometer Instrument Onboard MESSENGER. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4961-4978	2.6	3
18	Characterizing near-surface elemental layering on Mars using gamma-ray spectroscopy: A proof-of-principle experiment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 415, 89-99	1.2	2
17	Long-duration neutron production by nonflaring transients in the solar corona. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8247-8266	2.6	2
16	GeMini: A High-Resolution, Low-Resource, Gamma-Ray Spectrometer for Planetary Science Applications. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	2

15	Science Operation Plan of Phobos and Deimos From the MMX Spacecraft		2
14	Martian Moons Exploration MMX: Sample Return Mission to Phobos Elucidating Formation Processes of Habitable Planets		2
13	Psyche Science Operations Concept: Maximize Reuse to Minimize Risk 2018 ,		2
12	Position-dependent neutron detection efficiency loss in ^3He gas proportional counters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020 , 982, 164574	1.2	1
11	FIRST LIGHT: MeV ASTROPHYSICS FROM THE MOON. <i>Astrophysical Journal Letters</i> , 2016 , 823, L31	7.9	1
10	Operation of a ^3He proportional counter in the Ganymede radiation environment. <i>Planetary and Space Science</i> , 2012 , 61, 46-52	2	1
9	The MESSENGER Gamma-Ray and Neutron Spectrometer 2007 , 339-391		1
8	The Scientific Value of a Sustained Exploration Program at the Aristarchus Plateau. <i>Planetary Science Journal</i> , 2021 , 2, 136	2.9	1
7	Space-based measurements of neutron lifetime: Approaches to resolving the neutron lifetime anomaly. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 988, 164919	1.2	1
6	Deciphering Redox State for a Metal-Rich World.. <i>Space Science Reviews</i> , 2022 , 218, 6	7.5	1
5	MEGANE investigations of Phobos and the Small Body Mapping Tool.. <i>Earth, Planets and Space</i> , 2021 , 73, 217	2.9	1
4	Distinguishing the Origin of Asteroid (16) Psyche.. <i>Space Science Reviews</i> , 2022 , 218, 17	7.5	1
3	Measuring Surface Bulk Elemental Composition on Venus. <i>Physics Procedia</i> , 2017 , 90, 180-186		
2	Neutron Probes for the Construction and Resource Utilization eXplorer (CRUX) 2006 , 1		
1	Calibration of a two-photon coincidence experiment using ^{133}Ba . <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991 , 56-57, 334-336	1.2	