David J Lawrence

List of Publications by Year in Descending Order

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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	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. *Earth, Planets and Space*, **2022**, 74,	2.9	18
157	Deciphering Redox State for a Metal-Rich World.. *Space Science Reviews*, **2022**, 218, 6	7.5	1
156	Distinguishing the Origin of Asteroid (16) Psyche.. *Space Science Reviews*, **2022**, 218, 17	7.5	1
155	Science operation plan of Phobos and Deimos from the MMX spacecraft. *Earth, Planets and Space*, **2021**, 73,	2.9	9
154	The Scientific Value of a Sustained Exploration Program at the Aristarchus Plateau. *Planetary Science Journal*, **2021**, 2, 136	2.9	1
153	Space-based measurements of neutron lifetime: Approaches to resolving the neutron lifetime anomaly. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 988, 164919	1.2	1
152	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. *Planetary Science Journal*, **2021**, 2, 130	2.9	17
151	MEGANE investigations of Phobos and the Small Body Mapping Tool.. *Earth, Planets and Space*, **2021**, 73, 217	2.9	1
150	Position-dependent neutron detection efficiency loss in 3He gas proportional counters. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2020**, 982, 164574	1.2	1
149	Chemically distinct regions of Venus atmosphere revealed by measured N2 concentrations. *Nature Astronomy*, **2020**, 4, 947-950	12.1	6
148	Observations, Meteorites, and Models: A Preflight Assessment of the Composition and Formation of (16) Psyche. *Journal of Geophysical Research E: Planets*, **2020**, 125, e2019JE006296	4.1	27
147	Space-based measurement of the neutron lifetime using data from the neutron spectrometer on NASA's MESSENGER mission. *Physical Review Research*, **2020**, 2,	3.9	5
146	GeMini: A High-Resolution, Low-Resource, Gamma-Ray Spectrometer for Planetary Science Applications. *Space Science Reviews*, **2020**, 216, 1	7.5	2
145	Radiation damage and annealing of three coaxial n-type germanium detectors: Preparation for spaceflight missions to asteroid 16 Psyche and Mars moon Phobos. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 942, 162409	1.2	6
144	Cosmogenic radionuclide production modeling with Geant4: Experimental benchmarking and application to nuclear spectroscopy of asteroid (16) Psyche. *Nuclear Instruments & Methods in Physics Research B*, **2019**, 446, 43-57	1.2	5
143	MESSENGER Gamma Ray Spectrometer and Epithermal Neutron Hydrogen Data Reveal Compositional Differences Between Mercury's Hot and Cold Poles. *Journal of Geophysical Research E: Planets*, **2019**, 124, 721-733	4.1	3
142	Measuring the Elemental Composition of Phobos: The Mars-moon Exploration with GAmma rays and NEutrons (MEGANE) Investigation for the Martian Moons eXploration (MMX) Mission. *Earth and Space Science*, **2019**, 6, 2605-2623	3.1	17

141	Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. *Astrophysical Journal*, **2018**, 856, 139	4.7	21
140	Characterizing near-surface elemental layering on Mars using gamma-ray spectroscopy: A proof-of-principle experiment. *Nuclear Instruments & Methods in Physics Research B*, **2018**, 415, 89-99	1.2	2
139	DePhine The Deimos and Phobos Interior Explorer. *Advances in Space Research*, **2018**, 62, 2220-2238	2.4	11
138	Image Reconstruction Techniques in Neutron and Gamma Ray Spectroscopy: Improving Lunar Prospector Data. *Journal of Geophysical Research E: Planets*, **2018**, 123, 1804-1822	4.1	7
137	Near-space operation of compact CsI, CLYC, and CeBr3 sensors: Results from two high-altitude balloon flights. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2018**, 905, 33-46	1.2	7
136	Multi-spacecraft observations and transport simulations of solar energetic particles for the May 17th 2012 event. *Astronomy and Astrophysics*, **2018**, 612, A116	5.1	12
135	Mercury Polar Deposits **2018**, 346-370		6
134	Statistical Study of Mercury's Energetic Electron Events as Observed by the Gamma-Ray and Neutron Spectrometer Instrument Onboard MESSENGER. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4961-4978	2.6	3
133	Psyche Science Operations Concept: Maximize Reuse to Minimize Risk **2018**,		2
132	**2018**,		12
131	Compositional variability on the surface of 1 Ceres revealed through GRaND measurements of high-energy gamma rays. *Meteoritics and Planetary Science*, **2018**, 53, 1805-1819	2.8	7
130	Igneous lithologies on asteroid (4) Vesta mapped using gamma-ray and neutron data. *Icarus*, **2017**, 286, 35-45	3.8	10
129	Ion Mobility Spectrometry - High Resolution LTQ-Orbitrap Mass Spectrometry for Analysis of Homemade Explosives. *Journal of the American Society for Mass Spectrometry*, **2017**, 28, 1531-1539	3.5	17
128	A tale of two poles: Toward understanding the presence, distribution, and origin of volatiles at the polar regions of the Moon and Mercury. *Journal of Geophysical Research E: Planets*, **2017**, 122, 21-52	4.1	34
127	How thick are Mercury polar water ice deposits?. *Icarus*, **2017**, 284, 407-415	3.8	18
126	Extensive water ice within Ceres' aqueously altered regolith: Evidence from nuclear spectroscopy. *Science*, **2017**, 355, 55-59	33.3	146
125	Compositional terranes on Mercury: Information from fast neutrons. *Icarus*, **2017**, 281, 32-45	3.8	22
124	Measuring Surface Bulk Elemental Composition on Venus. *Physics Procedia*, **2017**, 90, 180-186		

123	Energetic Electron Acceleration and Injection During Dipolarization Events in Mercury's Magnetotail. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 12,170-12,188	2.6	30
122	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. *Science*, **2016**, 353, 1008-1010	33.3	157
121	Galactic cosmic ray variations in the inner heliosphere from solar distances less than 0.5 AU: Measurements from the MESSENGER Neutron Spectrometer. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 7398-7406	2.6	16
120	FIRST LIGHT: MeV ASTROPHYSICS FROM THE MOON. *Astrophysical Journal Letters*, **2016**, 823, L31	7.9	1
119	Lunar true polar wander inferred from polar hydrogen. *Nature*, **2016**, 531, 480-4	50.4	62
118	Remote sensing evidence for an ancient carbon-bearing crust on Mercury. *Nature Geoscience*, **2016**, 9, 273-276	18.3	90
117	Intense energetic electron flux enhancements in Mercury's magnetosphere: An integrated view with high-resolution observations from MESSENGER. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 2171-2184	2.6	24
116	Geochemistry of the lunar highlands as revealed by measurements of thermal neutrons. *Journal of Geophysical Research E: Planets*, **2016**, 121, 388-401	4.1	8
115	Bulk hydrogen abundances in the lunar highlands: Measurements from orbital neutron data. *Icarus*, **2015**, 255, 127-134	3.8	13
114	High-resolution mapping of lunar polar hydrogen with a low-resource orbital mission. *Acta Astronautica*, **2015**, 115, 452-462	2.9	4
113	Geochemical terranes of Mercury's northern hemisphere as revealed by MESSENGER neutron measurements. *Icarus*, **2015**, 253, 346-363	3.8	62
112	Gamma rays and cosmic rays at Venus: The Pioneer Venus gamma ray detector and considerations for future measurements. *Planetary and Space Science*, **2015**, 109-110, 129-134	2	3
111	Constraints on the abundance of carbon in near-surface materials on Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. *Planetary and Space Science*, **2015**, 108, 98-107	2	48
110	Chlorine on the surface of Mercury: MESSENGER gamma-ray measurements and implications for the planet's formation and evolution. *Icarus*, **2015**, 257, 417-427	3.8	51
109	Hydrogen and major element concentrations on 433 Eros: Evidence for an L- or LL-chondrite-like surface composition. *Meteoritics and Planetary Science*, **2015**, 50, 353-367	2.8	25
108	Magmatic volatiles (H, C, N, F, S, Cl) in the lunar mantle, crust, and regolith: Abundances, distributions, processes, and reservoirs. *American Mineralogist*, **2015**, 100, 1668-1707	2.9	114
107	The effect of craters on the lunar neutron flux. *Journal of Geophysical Research E: Planets*, **2015**, 120, 1377-1395	4.1	5
106	Evidence for explosive silicic volcanism on the Moon from the extended distribution of thorium near the Compton-Belkovich Volcanic Complex. *Journal of Geophysical Research E: Planets*, **2015**, 120, 92-108	4.1	20

105	The 4 June 2011 neutron event at Mercury: A defense of the solar origin hypothesis. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5284-5289	2.6	4
104	Long-duration neutron production by nonflaring transients in the solar corona. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 8247-8266	2.6	2
103	Using HED meteorites to interpret neutron and gamma-ray data from asteroid 4 Vesta. *Meteoritics and Planetary Science*, **2015**, 50, 1311-1337	2.8	22
102	Comprehensive survey of energetic electron events in Mercury's magnetosphere with data from the MESSENGER Gamma-Ray and Neutron Spectrometer. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 2851-2876	2.6	26
101	Neutrons and energetic charged particles in the inner heliosphere: Measurements of the MESSENGER Neutron Spectrometer from 0.3 to 0.85 AU. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 841-854	2.6	6
100	The neutron, gamma-ray, X-ray spectrometer (NGXS): A compact instrument for making combined measurements of neutrons, gamma-rays, and X-rays. *Acta Astronautica*, **2014**, 93, 524-529	2.9	4
99	Enhanced sodium abundance in Mercury's north polar region revealed by the MESSENGER Gamma-Ray Spectrometer. *Icarus*, **2014**, 228, 86-95	3.8	73
98	Surveying the South Pole-Aitken basin magnetic anomaly for remnant impactor metallic iron. *Icarus*, **2014**, 243, 27-30	3.8	3
97	Identification of surface hydrogen enhancements within the Moon's Shackleton crater. *Icarus*, **2014**, 233, 229-232	3.8	14
96	Mercury's Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. *Space Science Reviews*, **2014**, 181, 121-214	7.5	84
95	How well do we know the polar hydrogen distribution on the Moon?. *Journal of Geophysical Research E: Planets*, **2014**, 119, 574-593	4.1	21
94	Detection and characterization of 0.5 MeV neutrons near Mercury: Evidence for a solar origin. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5150-5171	2.6	10
93	Evidence for water ice near Mercury's north pole from MESSENGER Neutron Spectrometer measurements. *Science*, **2013**, 339, 292-6	33.3	146
92	New insights into the global composition of the lunar surface from high-energy gamma rays measured by Lunar Prospector. *Journal of Geophysical Research E: Planets*, **2013**, 118, 671-688	4.1	10
91	Reflection of solar wind hydrogen from the lunar surface. *Journal of Geophysical Research E: Planets* , **2013**, 118, 292-305	4.1	21
90	Distribution of iron on Vesta. *Meteoritics and Planetary Science*, **2013**, 48, 2237-2251	2.8	31
89	Constraints on Vesta's elemental composition: Fast neutron measurements by Dawn's gamma ray and neutron detector. *Meteoritics and Planetary Science*, **2013**, 48, 2271-2288	2.8	24
88	Compositional variability on the surface of 4 Vesta revealed through GRaND measurements of high-energy gamma rays. *Meteoritics and Planetary Science*, **2013**, 48, 2252-2270	2.8	43

87	Neutron absorption constraints on the composition of 4 Vesta. *Meteoritics and Planetary Science*, **2013**, 48, 2211-2236	2.8	44
86	Operation of a 3He proportional counter in the Ganymede radiation environment. *Planetary and Space Science*, **2012**, 61, 46-52	2	1
85	Solar influence on nuclear decay rates: constraints from the MESSENGER mission. *Astrophysics and Space Science*, **2012**, 337, 39-45	1.6	8
84	Elemental mapping by Dawn reveals exogenic H in Vesta's regolith. *Science*, **2012**, 338, 242-6	33.3	181
83	Two-dimensional distribution of volatiles in the lunar regolith from space weathering simulations. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	47
82	Enhanced hydrogen at the lunar poles: New insights from the detection of epithermal and fast neutron signatures. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		12
81	Variations in the abundances of potassium and thorium on the surface of Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		76
80	Major-element abundances on the surface of Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		121
79	Aluminum abundance on the surface of Mercury: Application of a new background-reduction technique for the analysis of gamma-ray spectroscopy data. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
78	Dawn at Vesta: testing the protoplanetary paradigm. *Science*, **2012**, 336, 684-6	33.3	356
77	A QUANTITATIVE COMPARISON OF LUNAR ORBITAL NEUTRON DATA. *Astrophysical Journal*, **2012**, 747, 6	4.7	16
76	Farside explorer: unique science from a mission to the farside of the moon. *Experimental Astronomy* , **2012**, 33, 529-585	1.3	38
75	Sensitivity of orbital neutron measurements to the thickness and abundance of surficial lunar water. *Journal of Geophysical Research*, **2011**, 116,		19
74	Thorium abundances of basalt ponds in South Pole-Aitken basin: Insights into the composition and evolution of the far side lunar mantle. *Journal of Geophysical Research*, **2011**, 116,		13
73	Mars Odyssey neutron data: 2. Search for buried excess water ice deposits at nonpolar latitudes on Mars. *Journal of Geophysical Research*, **2011**, 116,		42
72	Mars Odyssey neutron data: 1. Data processing and models of water-equivalent-hydrogen distribution. *Journal of Geophysical Research*, **2011**, 116,		49
71	The major-element composition of Mercury's surface from MESSENGER X-ray spectrometry. *Science* , **2011**, 333, 1847-50	33.3	312
70	Radioactive elements on Mercury's surface from MESSENGER: implications for the planet's formation and evolution. *Science*, **2011**, 333, 1850-2	33.3	195

69	Mapping iron abundances on the surface of Mercury: Predicted spatial resolution of the MESSENGER Gamma-Ray Spectrometer. *Planetary and Space Science*, **2011**, 59, 1654-1658	2	8
68	Predictions of MESSENGER Neutron Spectrometer measurements for Mercury's north polar region. *Planetary and Space Science*, **2011**, 59, 1665-1669	2	6
67	Analysis of MESSENGER Gamma-Ray Spectrometer data from the Mercury flybys. *Planetary and Space Science*, **2011**, 59, 1829-1841	2	16
66	MESSENGER observations of transient bursts of energetic electrons in Mercury's magnetosphere. *Science*, **2011**, 333, 1865-8	33.3	28
65	Technical comment on "Hydrogen mapping of the lunar South Pole using the LRO neutron detector experiment LEND". *Science*, **2011**, 334, 1058-c	33.3	22
64	Performance of orbital neutron instruments for spatially resolved hydrogen measurements of airless planetary bodies. *Astrobiology*, **2010**, 10, 183-200	3.7	20
63	Evidence for extended acceleration of solar flare ions from 1–8 MeV solar neutrons detected with the MESSENGER Neutron Spectrometer. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		25
62	Identification and measurement of neutron-absorbing elements on Mercury's surface. *Icarus*, **2010**, 209, 195-209	3.8	51
61	Thorium abundances on the Aristarchus plateau: Insights into the composition of the Aristarchus pyroclastic glass deposits. *Journal of Geophysical Research*, **2009**, 114,		21
60	Composition and origin of the Dewar geochemical anomaly. *Journal of Geophysical Research*, **2008**, 113,		9
59	TESTING THE UNITARITY OF THE CKM MATRIX WITH A SPACE-BASED NEUTRON DECAY EXPERIMENT. *Modern Physics Letters A*, **2008**, 23, 1735-1743	1.3	4
58	Return to Mercury: a global perspective on MESSENGER's first Mercury flyby. *Science*, **2008**, 321, 59-62	33.3	143
57	Surface and downhole prospecting tools for planetary exploration: tests of neutron and gamma ray probes. *Astrobiology*, **2008**, 8, 639-52	3.7	10
56	TARANIS—A Satellite Project Dedicated to the Physics of TLEs and TGFs. *Space Science Reviews*, **2008**, 137, 301-315	7.5	34
55	Global spatial deconvolution of Lunar Prospector Th abundances. *Geophysical Research Letters*, **2007**, 34,	4.9	48
54	Vertical distribution of hydrogen at high northern latitudes on Mars: The Mars Odyssey Neutron Spectrometer. *Geophysical Research Letters*, **2007**, 34,	4.9	31
53	Models of the distribution and abundance of hydrogen at the lunar south pole. *Geophysical Research Letters*, **2007**, 34, n/a-n/a	4.9	53
52	Plasma Experiment for Planetary Exploration (PEPE). *Space Science Reviews*, **2007**, 129, 327-357	7.5	19

51	The MESSENGER Gamma-Ray and Neutron Spectrometer. *Space Science Reviews*, **2007**, 131, 339-391	7.5	152
50	The MESSENGER Gamma-Ray and Neutron Spectrometer **2007**, 339-391		1
49	MCNPX benchmark for cosmic ray interactions with the Moon. *Journal of Geophysical Research*, **2006**, 111,		81
48	Refined thorium abundances for lunar red spots: Implications for evolved, nonmare volcanism on the Moon. *Journal of Geophysical Research*, **2006**, 111,		56
47	Improved modeling of Lunar Prospector neutron spectrometer data: Implications for hydrogen deposits at the lunar poles. *Journal of Geophysical Research*, **2006**, 111,		119
46	Elemental composition of the lunar surface: Analysis of gamma ray spectroscopy data from Lunar Prospector. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		264
45	2. Understanding the Lunar Surface and Space-Moon Interactions **2006**, 83-220		40
44	Neutron Probes for the Construction and Resource Utilization eXplorer (CRUX) **2006**, 1		
43	Evidence for a high-Th, evolved lithology on the Moon at Hansteen Alpha. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	20
42	Remote sensing and geologic studies of the Balmer-Kapteyn region of the Moon. *Journal of Geophysical Research*, **2005**, 110,		23
41	Recent outgassing from the lunar surface: The Lunar Prospector Alpha Particle Spectrometer. *Journal of Geophysical Research*, **2005**, 110,		25
40	Topographic control of hydrogen deposits at low latitudes to midlatitudes of Mars. *Journal of Geophysical Research*, **2005**, 110,		31
39	Composition and structure of the Martian surface at high southern latitudes from neutron spectroscopy. *Journal of Geophysical Research*, **2004**, 109,		94
38	Global distribution of near-surface hydrogen on Mars. *Journal of Geophysical Research*, **2004**, 109,		361
37	Gamma-ray measurements from Lunar Prospector: Time series data reduction for the Gamma-Ray Spectrometer. *Journal of Geophysical Research*, **2004**, 109,		56
36	Gamma-Ray, Neutron, and Alpha-Particle Spectrometers for the Lunar Prospector mission. *Journal of Geophysical Research*, **2004**, 109,		89
35	Reduction of neutron data from Lunar Prospector. *Journal of Geophysical Research*, **2004**, 109,		68
34	Hydrated states of MgSO4 at equatorial latitudes on Mars. *Geophysical Research Letters*, **2004**, 31,	4.9	48

33	Recharge mechanism of near-equatorial hydrogen on Mars: Atmospheric redistribution or sub-surface aquifer. *Geophysical Research Letters*, **2004**, 31,	4.9	12
32	Mapping the elemental composition of Ceres and Vesta: Dawn"s gamma ray and neutron detector **2004**,		5
31	Latitude variation of the subsurface lunar temperature: Lunar Prospector thermal neutrons. *Journal of Geophysical Research*, **2003**, 108,		17
30	Deep Space 1 encounter with Comet 19P/Borrelly: Ion composition measurements by the PEPE mass spectrometer. *Geophysical Research Letters*, **2003**, 30,	4.9	16
29	Hansteen Alpha: A volcanic construct in the lunar highlands. *Journal of Geophysical Research*, **2003**, 108,		32
28	Small-area thorium features on the lunar surface. *Journal of Geophysical Research*, **2003**, 108,		136
27	Global distribution of lunar composition: New results from Lunar Prospector. *Journal of Geophysical Research*, **2002**, 107, 5-1		23
26	Iron abundances on the lunar surface as measured by the Lunar Prospector gamma-ray and neutron spectrometers. *Journal of Geophysical Research*, **2002**, 107, 13-1-13-26		175
25	Ice concentration and distribution near the south pole of Mars: Synthesis of odyssey and global surveyor analyses. *Geophysical Research Letters*, **2002**, 29, 10-1-10-4	4.9	36
24	Global distribution of neutrons from Mars: results from Mars odyssey. *Science*, **2002**, 297, 75-8	33.3	424
23	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. *Journal of Geophysical Research*, **2002**, 107, 15-1-15-14		24
22	Lunar Prospector epithermal neutrons from impact craters and landing sites: Implications for surface maturity and hydrogen distribution. *Journal of Geophysical Research*, **2002**, 107, 3-1		11
21	Lunar Prospector neutron spectrometer constraints on TiO2. *Journal of Geophysical Research*, **2002**, 107, 8-1		65
20	Statistical analysis of thorium and fast neutron data at the lunar surface. *Journal of Geophysical Research*, **2002**, 107, 2-1		5
19	Plasmaspheric observations at geosynchronous orbit. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2001**, 63, 1185-1197	2	9
18	A comprehensive survey of plasmasphere refilling at geosynchronous orbit. *Journal of Geophysical Research*, **2001**, 106, 25615-25629		33
17	Evidence for water ice near the lunar poles. *Journal of Geophysical Research*, **2001**, 106, 23231-23251		205
16	Deep Space One Investigations of Ion Propulsion Plasma Environment. *Journal of Spacecraft and Rockets*, **2000**, 37, 545-555	1.5	32

15	Polar hydrogen deposits on the Moon. *Journal of Geophysical Research*, **2000**, 105, 4175-4195		167
14	High-energy neutrons from the Moon. *Journal of Geophysical Research*, **2000**, 105, 20365-20375		44
13	Lunar rare earth element distribution and ramifications for FeO and TiO2: Lunar Prospector neutron spectrometer observations. *Journal of Geophysical Research*, **2000**, 105, 20333-20345		111
12	Thorium abundances on the lunar surface. *Journal of Geophysical Research*, **2000**, 105, 20307-20331		159
11	Chemical information content of lunar thermal and epithermal neutrons. *Journal of Geophysical Research*, **2000**, 105, 20347-20363		72
10	New views of the Moon: Improved understanding through data integration. *Eos*, **2000**, 81, 349	1.5	13
9	Measurements of early and late time plasmasphere refilling as observed from geosynchronous orbit. *Journal of Geophysical Research*, **1999**, 104, 14691-14704		51
8	High resolution measurements of absolute thorium abundances on the lunar surface. *Geophysical Research Letters*, **1999**, 26, 2681-2684	4.9	66
7	Global elemental maps of the moon: the Lunar Prospector gamma-Ray spectrometer. *Science*, **1998**, 281, 1484-9	33.3	225
6	Major compositional units of the moon: lunar prospector thermal and fast neutrons. *Science*, **1998**, 281, 1489-93	33.3	74
5	Lunar Fe and Ti abundances: comparison of lunar prospector and clementine data. *Science*, **1998**, 281, 1493-6	33.3	70
4	Fluxes of fast and epithermal neutrons from Lunar Prospector: evidence for water ice at the lunar poles. *Science*, **1998**, 281, 1496-500	33.3	394
3	Calibration of a two-photon coincidence experiment using 133Ba. *Nuclear Instruments & Methods in Physics Research B*, **1991**, 56-57, 334-336	1.2	
2	Science Operation Plan of Phobos and Deimos From the MMX Spacecraft		2
1	Martian Moons Exploration MMX: Sample Return Mission to Phobos Elucidating Formation Processes of Habitable Planets		2