

# Ralph L Mcnutt

## List of Publications by Year in descending order

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198  
papers

12,531  
citations

27035

58  
h-index

31191

106  
g-index

204  
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204  
docs citations

204  
times ranked

5810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cassini Ion and Neutral Mass Spectrometer: Enceladus Plume Composition and Structure. <i>Science</i> , 2006, 311, 1419-1422.	6.0	590
2	Liquid water on Enceladus from observations of ammonia and 40Ar in the plume. <i>Nature</i> , 2009, 460, 487-490.	13.7	470
3	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	6.0	407
4	Ion Neutral Mass Spectrometer Results from the First Flyby of Titan. <i>Science</i> , 2005, 308, 982-986.	6.0	402
5	The Major-Element Composition of Mercury's Surface from MESSENGER X-ray Spectrometry. <i>Science</i> , 2011, 333, 1847-1850.	6.0	386
6	The MESSENGER mission to Mercury: scientific objectives and implementation. <i>Planetary and Space Science</i> , 2001, 49, 1445-1465.	0.9	361
7	MESSENGER Mission Overview. <i>Space Science Reviews</i> , 2007, 131, 3-39.	3.7	345
8	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019, 576, 228-231.	13.7	311
9	The Global Magnetic Field of Mercury from MESSENGER Orbital Observations. <i>Science</i> , 2011, 333, 1859-1862.	6.0	301
10	MESSENGER Observations of Magnetic Reconnection in Mercury's Magnetosphere. <i>Science</i> , 2009, 324, 606-610.	6.0	234
11	Radioactive Elements on Mercury's Surface from MESSENGER: Implications for the Planet's Formation and Evolution. <i>Science</i> , 2011, 333, 1850-1852.	6.0	233
12	Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. <i>Science</i> , 2012, 336, 217-220.	6.0	223
13	Plasma Observations Near Jupiter: Initial Results from Voyager 1. <i>Science</i> , 1979, 204, 987-991.	6.0	220
14	The Structure of Mercury's Magnetic Field from MESSENGER's First Flyby. <i>Science</i> , 2008, 321, 82-85.	6.0	194
15	Composition of Titan's ionosphere. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	191
16	The Cassini Ion and Neutral Mass Spectrometer (INMS) Investigation. <i>Space Science Reviews</i> , 2004, 114, 113-231.	3.7	188
17	Evidence for Water Ice Near Mercury's North Pole from MESSENGER Neutron Spectrometer Measurements. <i>Science</i> , 2013, 339, 292-296.	6.0	173
18	MESSENGER Observations of Extreme Loading and Unloading of Mercury's Magnetic Tail. <i>Science</i> , 2010, 329, 665-668.	6.0	172

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19	Positive ion observations in the middle magnetosphere of Jupiter. <i>Journal of Geophysical Research</i> , 1981, 86, 8319-8342.	3.3	171
20	Return to Mercury: A Global Perspective on MESSENGER's First Mercury Flyby. <i>Science</i> , 2008, 321, 59-62.	6.0	170
21	Reflectance and Color Variations on Mercury: Regolith Processes and Compositional Heterogeneity. <i>Science</i> , 2008, 321, 66-69.	6.0	167
22	Mercury's Magnetosphere After MESSENGER's First Flyby. <i>Science</i> , 2008, 321, 85-89.	6.0	166
23	MESSENGER observations of magnetopause structure and dynamics at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 997-1008.	0.8	141
24	Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. <i>Space Science Reviews</i> , 2016, 204, 187-256.	3.7	139
25	Low- $\epsilon$ structure in Mercury's planetary magnetic field. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	131
26	MESSENGER observations of Mercury's dayside magnetosphere under extreme solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8087-8116.	0.8	125
27	The Elemental Composition of Asteroid 433 Eros: Results of the NEAR-Shoemaker X-ray Spectrometer. <i>Science</i> , 2000, 289, 2101-2105.	6.0	123
28	MESSENGER Observations of the Composition of Mercury's Ionized Exosphere and Plasma Environment. <i>Science</i> , 2008, 321, 90-92.	6.0	121
29	Plasma Observations Near Saturn: Initial Results from Voyager 2. <i>Science</i> , 1982, 215, 563-570.	6.0	119
30	The MESSENGER mission to Mercury: scientific payload. <i>Planetary and Space Science</i> , 2001, 49, 1467-1479.	0.9	118
31	Plasma Observations Near Uranus: Initial Results from Voyager 2. <i>Science</i> , 1986, 233, 89-93.	6.0	114
32	Initial results from the New Horizons exploration of 2014 MU <sub>69</sub> , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	6.0	113
33	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	13.7	103
34	Low-energy plasma ion observations in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 1983, 88, 8831-8846.	3.3	102
35	MESSENGER Observations of the Spatial Distribution of Planetary Ions Near Mercury. <i>Science</i> , 2011, 333, 1862-1865.	6.0	102
36	The MESSENGER mission to Mercury: spacecraft and mission design. <i>Planetary and Space Science</i> , 2001, 49, 1481-1500.	0.9	100

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37	Plasma Observations Near Neptune: Initial Results from Voyager 2. <i>Science</i> , 1989, 246, 1478-1483.	6.0	97
38	Departure from rigid co-rotation of plasma in Jupiter's dayside magnetosphere. <i>Nature</i> , 1979, 280, 803-803.	13.7	96
39	Plasma Observations Near Jupiter: Initial Results from Voyager 2. <i>Science</i> , 1979, 206, 972-976.	6.0	94
40	The Magnetic Field of Mercury. <i>Space Science Reviews</i> , 2010, 152, 307-339.	3.7	94
41	Enceladus plume variability and the neutral gas densities in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	93
42	A CMOS time-of-flight system-on-a-chip for spacecraft instruments. <i>IEEE Transactions on Nuclear Science</i> , 2002, 49, 1156-1163.	1.2	87
43	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
44	Understanding coronal heating and solar wind acceleration: Case for in situ near-Sun measurements. <i>Reviews of Geophysics</i> , 2007, 45, .	9.0	85
45	MESSENGER observations of a fluxâ€transferâ€event shower at Mercury. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	85
46	Distribution and compositional variations of plasma ions in Mercury's space environment: The first three Mercury years of MESSENGER observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1604-1619.	0.8	85
47	Titan's ionosphere: Model comparisons with Cassini Ta data. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	81
48	MESSENGER observations of the plasma environment near Mercury. <i>Planetary and Space Science</i> , 2011, 59, 2004-2015.	0.9	78
49	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	76
50	Revised ion temperatures for Voyager plasma measurements in the Io plasma torus. <i>Journal of Geophysical Research</i> , 1985, 90, 1755-1757.	3.3	75
51	Models of Pluto's upper atmosphere. <i>Geophysical Research Letters</i> , 1989, 16, 1225-1228.	1.5	72
52	MESSENGER observations of dipolarization events in Mercury's magnetotail. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	72
53	Solar wind conditions in the outer heliosphere and the distance to the termination shock. <i>Journal of Geophysical Research</i> , 1993, 98, 15177-15183.	3.3	71
54	MESSENGER observations of flux ropes in Mercury's magnetotail. <i>Planetary and Space Science</i> , 2015, 115, 77-89.	0.9	71

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55	Modeling of the magnetosphere of Mercury at the time of the first MESSENGER flyby. <i>Icarus</i> , 2010, 209, 3-10.	1.1	67
56	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	6.0	64
57	Determination of the properties of Mercury's magnetic field by the MESSENGER mission. <i>Planetary and Space Science</i> , 2004, 52, 733-746.	0.9	61
58	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	6.0	60
59	Modular model for Mercury's magnetospheric magnetic field confined within the average observed magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4503-4518.	0.8	59
60	Oxygen Ions Observed Near Saturn's A Ring. <i>Science</i> , 2005, 307, 1260-1262.	6.0	57
61	MESSENGER observations of large flux transfer events at Mercury. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	57
62	Simulation of the heliosphere: Model. <i>Journal of Geophysical Research</i> , 1998, 103, 1905-1912.	3.3	55
63	MESSENGER observations of Mercury's magnetosphere during northward IMF. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	55
64	Steady-state field-aligned currents at Mercury. <i>Geophysical Research Letters</i> , 2014, 41, 7444-7452.	1.5	55
65	The MESSENGER mission to Mercury: Development history and early mission status. <i>Advances in Space Research</i> , 2006, 38, 564-571.	1.2	54
66	MESSENGER observations of large dayside flux transfer events: Do they drive Mercury's substorm cycle?. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5613-5623.	0.8	54
67	A solar wind trigger for the outer heliosphere radio emissions and the distance to the terminal shock. <i>Geophysical Research Letters</i> , 1988, 15, 1307-1310.	1.5	53
68	The Pluto Energetic Particle Spectrometer Science Investigation (PEPSSI) on the New Horizons Mission. <i>Space Science Reviews</i> , 2008, 140, 315-385.	3.7	53
69	Energetic Particles in the Jovian Magnetotail. <i>Science</i> , 2007, 318, 220-222.	6.0	50
70	Compositional mapping with the NEAR X ray/gamma ray spectrometer. <i>Journal of Geophysical Research</i> , 1997, 102, 23729-23750.	3.3	49
71	Plasma distribution in Mercury's magnetosphere derived from MESSENGER Magnetometer and Fast Imaging Plasma Spectrometer observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2917-2932.	0.8	46
72	Low-energy plasma observations in the magnetosphere of Uranus. <i>Journal of Geophysical Research</i> , 1987, 92, 4399-4410.	3.3	45

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73	Laser Altimeter Observations from MESSENGER's First Mercury Flyby. <i>Science</i> , 2008, 321, 77-79.	6.0	44
74	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	13.7	44
75	The X-ray/Gamma-ray Spectrometer on the Near Earth Asteroid Rendezvous Mission. <i>Space Science Reviews</i> , 1997, 82, 169-216.	3.7	43
76	The equatorial shape and gravity field of Mercury from MESSENGER flybys 1 and 2. <i>Icarus</i> , 2010, 209, 88-100.	1.1	43
77	Solar Wind Streams and Stream Interaction Regions Observed by the Parker Solar Probe with Corresponding Observations at 1 au. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 36.	3.0	43
78	Quasi-trapped ion and electron populations at Mercury. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	40
79	The Mushroom: A half-sky energetic ion and electron detector. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1513-1530.	0.8	40
80	Voyager 2 plasma ion observations in the magnetosphere of Uranus. <i>Journal of Geophysical Research</i> , 1987, 92, 15249-15262.	3.3	39
81	The abundance of O <sup>++</sup> in the Jovian magnetosphere. <i>Geophysical Research Letters</i> , 1992, 19, 79-82.	1.5	38
82	Plasma pressure in Mercury's equatorial magnetosphere derived from MESSENGER Magnetometer observations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	38
83	Plasma bulk flow in Jupiter's dayside middle magnetosphere. <i>Journal of Geophysical Research</i> , 1988, 93, 8502-8518.	3.3	37
84	MESSENGER and Venus Express observations of the solar wind interaction with Venus. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	37
85	Near-term interstellar probe: First step. <i>Acta Astronautica</i> , 2019, 162, 284-299.	1.7	37
86	The magnetotail of Uranus. <i>Journal of Geophysical Research</i> , 1987, 92, 15354-15366.	3.3	36
87	The low-degree shape of Mercury. <i>Geophysical Research Letters</i> , 2015, 42, 6951-6958.	1.5	36
88	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.	0.8	36
89	The interplanetary magnetic field environment at Mercury's orbit. <i>Planetary and Space Science</i> , 2011, 59, 2075-2085.	0.9	35
90	MESSENGER Observations of Transient Bursts of Energetic Electrons in Mercury's Magnetosphere. <i>Science</i> , 2011, 333, 1865-1868.	6.0	35

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91	MESSENGER observations of suprathermal electrons in Mercury's magnetosphere. <i>Geophysical Research Letters</i> , 2016, 43, 550-555.	1.5	35
92	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at $\approx 0.25$ au. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 29.	3.0	35
93	Heavy ions in the outer Kronian magnetosphere. <i>Journal of Geophysical Research</i> , 1983, 88, 823-831.	3.3	34
94	Pluto's interaction with the solar wind. <i>Geophysical Research Letters</i> , 1989, 16, 1229-1232.	1.5	33
95	The dayside magnetospheric boundary layer at Mercury. <i>Planetary and Space Science</i> , 2011, 59, 2037-2050.	0.9	33
96	Pluto's interaction with the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4232-4246.	0.8	32
97	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L8.	3.0	32
98	Plume ionosphere of Enceladus as seen by the Cassini ion and neutral mass spectrometer. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	31
99	Observations of suprathermal electrons in Mercury's magnetosphere during the three MESSENGER flybys. <i>Planetary and Space Science</i> , 2011, 59, 2016-2025.	0.9	31
100	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.	0.8	31
101	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	3.0	31
102	Observational constraints on interchange models at Jupiter. <i>Geophysical Research Letters</i> , 1987, 14, 64-67.	1.5	30
103	Meridional plasma flow in the outer heliosphere. <i>Geophysical Research Letters</i> , 1988, 15, 1519-1522.	1.5	30
104	Possible explanations of north-south plasma flow in the outer heliosphere and meridional transport of magnetic flux. <i>Geophysical Research Letters</i> , 1988, 15, 1523-1526.	1.5	29
105	An international program for Mercury exploration: synergy of MESSENGER and BepiColombo. <i>Advances in Space Research</i> , 2004, 33, 2126-2132.	1.2	29
106	First observations of Mercury's plasma mantle by MESSENGER. <i>Geophysical Research Letters</i> , 2015, 42, 9666-9675.	1.5	29
107	MESSENGER observations of cusp plasma filaments at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8260-8285.	0.8	29
108	Properties of Suprathermal-through-energetic He Ions Associated with Stream Interaction Regions Observed over the Parker Solar Probe's First Two Orbits. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 56.	3.0	29

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109	Spatial distribution and spectral characteristics of energetic electrons in Mercury's magnetosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
110	<sup>3</sup> He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42.	3.0	27
111	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 35.	3.0	27
112	Cassini INMS observations of neutral molecules in Saturn's E-ring. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
113	Material Flux From the Rings of Saturn Into Its Atmosphere. <i>Geophysical Research Letters</i> , 2018, 45, 10,093.	1.5	25
114	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 61.	3.0	25
115	Plasma depletions in the Jovian magnetosphere: Evidence of transport and solar wind interaction. <i>Journal of Geophysical Research</i> , 1987, 92, 4377-4398.	3.3	23
116	Composition of energetic particles in the Jovian magnetotail. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	23
117	Characteristics of the plasma distribution in Mercury's equatorial magnetosphere derived from MESSENGER Magnetometer observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
118	Small, Low-energy, Dispersive Solar Energetic Particle Events Observed by Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 65.	3.0	23
119	Correlated Variations in the Solar Neutrino Flux and the Solar Wind and the Relation to the Solar Neutrino Problem. <i>Science</i> , 1995, 270, 1635-1639.	6.0	22
120	Low-energy ions near Neptune. <i>Journal of Geophysical Research</i> , 1991, 96, 18993-19011.	3.3	21
121	Simulation of the heliosphere: Generalized charge-exchange cross sections. <i>Journal of Geophysical Research</i> , 1999, 104, 14803-14809.	3.3	21
122	CME-associated Energetic Ions at 0.23 au: Consideration of the Auroral Pressure Cooker Mechanism Operating in the Low Corona as a Possible Energization Process. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 59.	3.0	21
123	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 33.	3.0	21
124	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , 2021, 650, A26.	2.1	20
125	Plasma observations in the ring plane of Saturn. <i>Journal of Geophysical Research</i> , 1994, 99, 11063.	3.3	19
126	Solar wind at 33 AU: Setting bounds on the Pluto interaction for New Horizons. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1497-1511.	1.5	19



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127	The puzzling detection of x-rays from Pluto by Chandra. <i>Icarus</i> , 2017, 287, 103-109.	1.1	19
128	Interstellar Probe: Humanity's exploration of the Galaxy Begins. <i>Acta Astronautica</i> , 2022, 199, 364-373.	1.7	19
129	Energetic particle evidence for magnetic filaments in Jupiter's magnetotail. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	18
130	THE INTERPLANETARY NETWORK SUPPLEMENT TO THE BURST AND TRANSIENT SOURCE EXPERIMENT 5B CATALOG OF COSMIC GAMMA-RAY BURSTS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 196, 1.	3.0	18
131	Energetic Particle Observations from the Parker Solar Probe Using Combined Energy Spectra from the ISÅŠ™IS Instrument Suite. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 41.	3.0	17
132	A living catalog of stream interaction regions in the Parker Solar Probe era. <i>Astronomy and Astrophysics</i> , 2021, 650, A25.	2.1	17
133	Energetic Electron Observations by Parker Solar Probe/ISÅŠ™IS during the First Widespread SEP Event of Solar Cycle 25 on 2020 November 29. <i>Astrophysical Journal</i> , 2021, 919, 119.	1.6	17
134	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	16
135	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREO. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091376.	1.5	16
136	The "Puck" energetic charged particle detector: Design, heritage, and advancements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7900-7913.	0.8	15
137	Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019, 876, 46.	1.6	15
138	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A24.	2.1	15
139	PSP/ISÅŠ™IS observations of the 29 November 2020 solar energetic particle event. <i>Astronomy and Astrophysics</i> , 2021, 656, A29.	2.1	15
140	Influence of Solar Disturbances on Galactic Cosmic Rays in the Solar Wind, Heliosheath, and Local Interstellar Medium: Advanced Composition Explorer, New Horizons, and Voyager Observations. <i>Astrophysical Journal</i> , 2020, 905, 69.	1.6	15
141	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , 2022, 3, 112.	1.5	15
142	Low-energy plasma in Neptune's magnetosphere. <i>Geophysical Research Letters</i> , 1990, 17, 1689-1692.	1.5	14
143	Magnetopause and cusp observations at Neptune. <i>Journal of Geophysical Research</i> , 1991, 96, 19149-19152.	3.3	14
144	Time evolution of stream interaction region energetic particle spectra in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L5.	2.1	14

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145	Constraints on Titan's ionosphere. <i>Geophysical Research Letters</i> , 1988, 15, 709-712.	1.5	13
146	MESSENGER at Mercury: A mid-term report. <i>Acta Astronautica</i> , 2012, 81, 369-379.	1.7	13
147	Parker Solar Probe observations of He/H abundance variations in SEP events inside 0.5 au. <i>Astronomy and Astrophysics</i> , 2021, 650, A23.	2.1	13
148	Latitude-associated differences in the Low Energy Charged Particle activity at Voyagers 1 and 2 during 1991 to early 1994. <i>Space Science Reviews</i> , 1995, 72, 347-352.	3.7	12
149	Energetic particle behavior in near-Sun magnetic field switchbacks from PSP. <i>Astronomy and Astrophysics</i> , 2021, 650, L4.	2.1	12
150	Comparative Analysis of the 2020 November 29 Solar Energetic Particle Event Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2021, 920, 123.	1.6	12
151	Observation of auroral secondary electrons in the Jovian magnetosphere. <i>Geophysical Research Letters</i> , 1990, 17, 291-294.	1.5	10
152	3D MHD simulations of the heliosphere-VLISM interaction. , 1999, , .		10
153	The MESSENGER mission to Mercury: Status after the Venus flybys. <i>Acta Astronautica</i> , 2008, 63, 68-73.	1.7	10
154	Enabling interstellar probe. <i>Acta Astronautica</i> , 2011, 68, 790-801.	1.7	10
155	Parker Solar Probe observations of helical structures as boundaries for energetic particles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2114-2122.	1.6	10
156	Energetic Particles Associated with a Coronal Mass Ejection Shock Interacting with a Convected Magnetic Structure. <i>Astrophysical Journal</i> , 2021, 921, 102.	1.6	10
157	Possible in Situ Detection of K <sup>2+</sup> in the Jovian Magnetosphere. <i>Journal of Geophysical Research</i> , 1993, 98, 21221-21229.	3.3	9
158	Remote planetary geochemical exploration with the NEAR X-ray/gamma-ray spectrometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 422, 572-576.	0.7	9
159	Optical and microwave communications system conceptual design for a realistic interstellar probe. , 2002, 4821, 225.		9
160	Ballistic Jupiter Gravity-Assist, Perihelion- $\hat{V}$ Trajectories for an Interstellar Explorer. <i>Journal of the Astronautical Sciences</i> , 2003, 51, 179-193.	0.8	9
161	Mission Design for the Innovative Interstellar Explorer Vision Mission. <i>Journal of Spacecraft and Rockets</i> , 2006, 43, 1239-1247.	1.3	9
162	Modeling the response of the induced magnetosphere of Venus to changing IMF direction using MESSENGER and Venus Express observations. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	9

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163	Spaceflight: The Development of Science, Surveillance, and Commerce in Space. Proceedings of the IEEE, 2012, 100, 1785-1818.	16.4	9
164	The dynamic expansion and contraction of the jovian plasma sheet. Nature, 1980, 287, 813-815.	13.7	8
165	Spacecraft instrument technology and cosmochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19177-19182.	3.3	8
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