

# Ralph L McNutt

## 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.

190  
papers

10,215  
citations

55  
h-index

96  
g-index

204  
ext. papers

11,378  
ext. citations

12.4  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
190	PSP/IS?IS Observation of a Solar Energetic Particle Event Associated with a Streamer Blowout Coronal Mass Ejection during Encounter 6. <i>Astrophysical Journal</i> , <b>2022</b> , 925, 212	4.7	0
189	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 927, L8	7.9	1
188	Science Goals and Mission Concept for a Landed Investigation of Mercury. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 68	2.9	0
187	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 62	4.7	
186	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 112	2.9	1
185	Energetic Particles Associated with a Coronal Mass Ejection Shock Interacting with a Convected Magnetic Structure. <i>Astrophysical Journal</i> , <b>2021</b> , 921, 102	4.7	2
184	Comparative Analysis of the 2020 November 29 Solar Energetic Particle Event Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , <b>2021</b> , 920, 123	4.7	5
183	Energetic particle behavior in near-Sun magnetic field switchbacks from PSP. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 650, L4	5.1	4
182	Parker Solar Probe observations of He/H abundance variations in SEP events inside 0.5 au. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 650, A23	5.1	6
181	A living catalog of stream interaction regions in the Parker Solar Probe era. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 650, A25	5.1	5
180	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 650, A26	5.1	10
179	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 650, A24	5.1	5
178	Time evolution of stream interaction region energetic particle spectra in the inner heliosphere. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 650, L5	5.1	7
177	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREO-A. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091376	4.9	6
176	Energetic Electron Observations by Parker Solar Probe/IS?IS during the First Widespread SEP Event of Solar Cycle 25 on 2020 November 29. <i>Astrophysical Journal</i> , <b>2021</b> , 919, 119	4.7	5
175	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 61	8	12
174	Small, Low-energy, Dispersive Solar Energetic Particle Events Observed by Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 65	8	10

173	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> , <b>2020</b> , 246, 36	8	19
172	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , <b>2020</b> , 367,	33.3	35
171	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , <b>2020</b> , 367,	33.3	43
170	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at ~0.25 au. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 29	8	15
169	Energetic Particle Observations from the Parker Solar Probe Using Combined Energy Spectra from the IS <sup>2</sup> IS Instrument Suite. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 41	8	10
168	<sup>3</sup> He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 42	8	14
167	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> , <b>2020</b> , 246, 59	8	12
166	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 20	8	14
165	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 33	8	10
164	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 246, 35	8	14
163	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> , <b>2020</b> , 246, 56	8	16
162	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> , <b>2020</b> , 905, 69	4.7	6
161	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. <i>Space Science Reviews</i> , <b>2020</b> , 216, 1	7.5	10
160	Near-term interstellar probe: First step. <i>Acta Astronautica</i> , <b>2019</b> , 162, 284-299	2.9	16
159	Initial results from the New Horizons exploration of 2014 MU, a small Kuiper Belt object. <i>Science</i> , <b>2019</b> , 364,	33.3	80
158	Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , <b>2019</b> , 876, 46	4.7	8
157	Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7413-7424	2.6	1
156	Probing the energetic particle environment near the Sun. <i>Nature</i> , <b>2019</b> , 576, 223-227	50.4	67

155	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , <b>2019</b> , 576, 228-231	50.4	172
154	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> , <b>2018</b> , 123, 4961-4978	2.6	3
153	Material Flux From the Rings of Saturn Into Its Atmosphere. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 10,093-10,100	3.9	100
152	The Mushroom: A half-sky energetic ion and electron detector. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1513-1530	2.6	24
151	The puzzling detection of x-rays from Pluto by Chandra. <i>Icarus</i> , <b>2017</b> , 287, 103-109	3.8	16
150	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , <b>2016</b> , 539, 65-68	50.4	38
149	MESSENGER observations of suprathermal electrons in Mercury's magnetosphere. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 550-555	4.9	25
148	Pluto's interaction with the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 4232-4246	4.6	31
147	Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. <i>Space Science Reviews</i> , <b>2016</b> , 204, 187-256	7.5	90
146	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , <b>2016</b> , 351, aad9045	33.3	52
145	The "Puck" energetic charged particle detector: Design, heritage, and advancements. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 7900-7913	2.6	13
144	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> , <b>2016</b> , 121, 2171-2184	2.6	24
143	MESSENGER observations of cusp plasma filaments at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 8260-8285	2.6	24
142	MESSENGER observations of flux ropes in Mercury's magnetotail. <i>Planetary and Space Science</i> , <b>2015</b> , 115, 77-89	2	62
141	Solar wind at 33 AU: Setting bounds on the Pluto interaction for New Horizons. <i>Journal of Geophysical Research E: Planets</i> , <b>2015</b> , 120, 1497-1511	4.1	17
140	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , <b>2015</b> , 350, aad1815	33.3	295
139	The low-degree shape of Mercury. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6951-6958	4.9	27
138	First observations of Mercury's plasma mantle by MESSENGER. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9666-9675	4.9	21

137	Modular model for Mercury's magnetospheric magnetic field confined within the average observed magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4503-4518	2.6	45
136	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> , <b>2015</b> , 120, 2851-2876	2.6	26
135	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> , <b>2014</b> , 93, 524-529	2.9	4
134	MESSENGER at Mercury: Early orbital operations. <i>Acta Astronautica</i> , <b>2014</b> , 93, 509-515	2.9	2
133	Plasma and energetic particle observations in Jupiter's deep tail near the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6432-6444	2.6	4
132	Steady-state field-aligned currents at Mercury. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 7444-7452	4.9	46
131	MESSENGER observations of large dayside flux transfer events: Do they drive Mercury's substorm cycle?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5613-5623	2.6	46
130	Plasma distribution in Mercury's magnetosphere derived from MESSENGER Magnetometer and Fast Imaging Plasma Spectrometer observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 2917-2932	2.6	37
129	MESSENGER observations of Mercury's dayside magnetosphere under extreme solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8087-8116	2.6	100
128	Evidence for water ice near Mercury's north pole from MESSENGER Neutron Spectrometer measurements. <i>Science</i> , <b>2013</b> , 339, 292-6	33.3	146
127	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> , <b>2013</b> , 118, 1604-1619	2.6	72
126	MESSENGER observations of magnetopause structure and dynamics at Mercury. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 997-1008	2.6	118
125	. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 1785-1818	14.3	7
124	Characteristics of the plasma distribution in Mercury's equatorial magnetosphere derived from MESSENGER Magnetometer observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		21
123	MESSENGER at Mercury: A mid-term report. <i>Acta Astronautica</i> , <b>2012</b> , 81, 369-379	2.9	9
122	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		76
121	Low-degree structure in Mercury's planetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		103
120	Topography of the northern hemisphere of Mercury from MESSENGER laser altimetry. <i>Science</i> , <b>2012</b> , 336, 217-20	33.3	160

119	The final end of the final frontier?. <i>Science</i> , <b>2012</b> , 338, 1149-50	33.3	
118	MESSENGER observations of dipolarization events in Mercury's magnetotail. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		67
117	Spatial distribution and spectral characteristics of energetic electrons in Mercury's magnetosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		22
116	MESSENGER observations of a flux-transfer-event shower at Mercury. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		74
115	Plasma pressure in Mercury's equatorial magnetosphere derived from MESSENGER Magnetometer observations. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	33
114	Quasi-trapped ion and electron populations at Mercury. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	27
113	The major-element composition of Mercury's surface from MESSENGER X-ray spectrometry. <i>Science</i> , <b>2011</b> , 333, 1847-50	33.3	312
112	Radioactive elements on Mercury's surface from MESSENGER: implications for the planet's formation and evolution. <i>Science</i> , <b>2011</b> , 333, 1850-2	33.3	195
111	The interplanetary magnetic field environment at Mercury's orbit. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 2075-2085	2	34
110	The dayside magnetospheric boundary layer at Mercury. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 2037-2050		28
109	Observations of suprathermal electrons in Mercury's magnetosphere during the three MESSENGER flybys. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 2016-2025	2	25
108	MESSENGER observations of the plasma environment near Mercury. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 2004-2015	2	72
107	Interstellar Probe: Impact of the Voyager and IBEX results on science and strategy. <i>Acta Astronautica</i> , <b>2011</b> , 69, 767-776	2.9	6
106	Enabling interstellar probe. <i>Acta Astronautica</i> , <b>2011</b> , 68, 790-801	2.9	7
105	Spacecraft instrument technology and cosmochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 19177-82	11.5	7
104	MESSENGER observations of transient bursts of energetic electrons in Mercury's magnetosphere. <i>Science</i> , <b>2011</b> , 333, 1865-8	33.3	28
103	THE INTERPLANETARY NETWORK SUPPLEMENT TO THE BURST AND TRANSIENT SOURCE EXPERIMENT 5B CATALOG OF COSMIC GAMMA-RAY BURSTS. <i>Astrophysical Journal, Supplement Series</i> , <b>2011</b> , 196, 1	8	16
102	MESSENGER observations of the spatial distribution of planetary ions near Mercury. <i>Science</i> , <b>2011</b> , 333, 1862-5	33.3	91

101	The global magnetic field of Mercury from MESSENGER orbital observations. <i>Science</i> , <b>2011</b> , 333, 1859-62	33.3	255
100	MESSENGER observations of extreme loading and unloading of Mercury's magnetic tail. <i>Science</i> , <b>2010</b> , 329, 665-8	33.3	157
99	MESSENGER observations of large flux transfer events at Mercury. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	49
98	Enceladus plume variability and the neutral gas densities in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		86
97	Cassini INMS observations of neutral molecules in Saturn's E-ring. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		24
96	The Magnetic Field of Mercury. <i>Space Science Reviews</i> , <b>2010</b> , 152, 307-339	7.5	81
95	Modeling of the magnetosphere of Mercury at the time of the first MESSENGER flyby. <i>Icarus</i> , <b>2010</b> , 209, 3-10	3.8	58
94	The equatorial shape and gravity field of Mercury from MESSENGER flybys 1 and 2. <i>Icarus</i> , <b>2010</b> , 209, 88-100	3.8	41
93	The MESSENGER mission: Results from the first two Mercury flybys. <i>Acta Astronautica</i> , <b>2010</b> , 67, 681-687	2.9	6
92	MESSENGER observations of magnetic reconnection in Mercury's magnetosphere. <i>Science</i> , <b>2009</b> , 324, 606-10	33.3	206
91	Liquid water on Enceladus from observations of ammonia and $40\text{Ar}$ in the plume. <i>Nature</i> , <b>2009</b> , 460, 487-490	34.4	387
90	Plume ionosphere of Enceladus as seen by the Cassini ion and neutral mass spectrometer. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	28
89	MESSENGER and Venus Express observations of the solar wind interaction with Venus. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	32
88	Energetic particle evidence for magnetic filaments in Jupiter's magnetotail. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		18
87	MESSENGER observations of Mercury's magnetosphere during northward IMF. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	47
86	Modeling the response of the induced magnetosphere of Venus to changing IMF direction using MESSENGER and Venus Express observations. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	7
85	Composition of energetic particles in the Jovian magnetotail. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		20
84	The Pluto Energetic Particle Spectrometer Science Investigation (PEPSSI) on the New Horizons Mission. <i>Space Science Reviews</i> , <b>2008</b> , 140, 315-385	7.5	46

83	Mercury's magnetosphere after MESSENGER's first flyby. <i>Science</i> , <b>2008</b> , 321, 85-9	33.3	147
82	Reflectance and color variations on Mercury: regolith processes and compositional heterogeneity. <i>Science</i> , <b>2008</b> , 321, 66-9	33.3	143
81	The structure of Mercury's magnetic field from MESSENGER's first flyby. <i>Science</i> , <b>2008</b> , 321, 82-5	33.3	176
80	MESSENGER observations of the composition of Mercury's ionized exosphere and plasma environment. <i>Science</i> , <b>2008</b> , 321, 90-2	33.3	113
79	Laser altimeter observations from MESSENGER's first Mercury flyby. <i>Science</i> , <b>2008</b> , 321, 77-9	33.3	41
78	Return to Mercury: a global perspective on MESSENGER's first Mercury flyby. <i>Science</i> , <b>2008</b> , 321, 59-62	33.3	143
77	The MESSENGER mission to Mercury: Status after the Venus flybys. <i>Acta Astronautica</i> , <b>2008</b> , 63, 68-73	2.9	9
76	Understanding coronal heating and solar wind acceleration: Case for in situ near-Sun measurements. <i>Reviews of Geophysics</i> , <b>2007</b> , 45,	23.1	65
75	MESSENGER Mission Overview. <i>Space Science Reviews</i> , <b>2007</b> , 131, 3-39	7.5	257
74	Paris to Hektor: A Concept for a Mission to the Jovian Trojan Asteroids. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	1
73	Energetic particles in the jovian magnetotail. <i>Science</i> , <b>2007</b> , 318, 220-2	33.3	47
72	The MESSENGER mission to Mercury: Development history and early mission status. <i>Advances in Space Research</i> , <b>2006</b> , 38, 564-571	2.4	47
71	Cassini ion and neutral mass spectrometer: Enceladus plume composition and structure. <i>Science</i> , <b>2006</b> , 311, 1419-22	33.3	497
70	Mission Design for the Innovative Interstellar Explorer Vision Mission. <i>Journal of Spacecraft and Rockets</i> , <b>2006</b> , 43, 1239-1247	1.5	7
69	Composition of Titan's ionosphere. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	171
68	Titan's ionosphere: Model comparisons with Cassini Ta data. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	76
67	Oxygen ions observed near Saturn's A ring. <i>Science</i> , <b>2005</b> , 307, 1260-2	33.3	55
66	Ion neutral mass spectrometer results from the first flyby of Titan. <i>Science</i> , <b>2005</b> , 308, 982-6	33.3	370



65	Modeling Charge Exchange in the Solar Wind/VLISM Interaction. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	0	2
64	An international program for Mercury exploration: synergy of MESSENGER and BepiColombo. <i>Advances in Space Research</i> , <b>2004</b> , 33, 2126-2132	2.4	27
63	The Cassini Ion and Neutral Mass Spectrometer (INMS) Investigation. <i>Space Science Reviews</i> , <b>2004</b> , 114, 113-231	7.5	169
62	Determination of the properties of Mercury's magnetic field by the MESSENGER mission. <i>Planetary and Space Science</i> , <b>2004</b> , 52, 733-746	2	58
61	Fluid Modeling of the VLISM/Solar Wind Interaction With the 13-Moment Formalism. <i>AIP Conference Proceedings</i> , <b>2003</b> ,	0	2
60	The Energetic Particles Spectrometers (EPS) on MESSENGER and New Horizons. <i>AIP Conference Proceedings</i> , <b>2003</b> ,	0	4
59	Advanced time-of-flight system-on-a-chip for remote sensing instruments <b>2003</b> ,		1
58	Ballistic Jupiter Gravity-Assist, Perihelion- $\bar{V}$ Trajectories for an Interstellar Explorer. <i>Journal of the Astronautical Sciences</i> , <b>2003</b> , 51, 179-193	1.1	6
57	Optical and microwave communications system conceptual design for a realistic interstellar probe <b>2002</b> , 4821, 225		7
56	A CMOS time-of-flight system-on-a-chip for spacecraft instruments. <i>IEEE Transactions on Nuclear Science</i> , <b>2002</b> , 49, 1156-1163	1.7	55
55	The MESSENGER mission to Mercury: scientific objectives and implementation. <i>Planetary and Space Science</i> , <b>2001</b> , 49, 1445-1465	2	317
54	The MESSENGER mission to Mercury: scientific payload. <i>Planetary and Space Science</i> , <b>2001</b> , 49, 1467-1479		104
53	The MESSENGER mission to Mercury: spacecraft and mission design. <i>Planetary and Space Science</i> , <b>2001</b> , 49, 1481-1500	2	87
52	A realistic interstellar explorer. <i>AIP Conference Proceedings</i> , <b>2000</b> ,	0	5
51	Here comes Solar Probe!. <i>Advances in Space Research</i> , <b>2000</b> , 25, 1961-1964	2.4	3
50	The elemental composition of asteroid 433 eros: results of the NEAR-shoemaker X-ray spectrometer. <i>Science</i> , <b>2000</b> , 289, 2101-5	33.3	108
49	3D MHD simulations of the heliosphere-VLISM interaction <b>1999</b> ,		6
48	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> , <b>1999</b> , 422, 572-576	1.2	9

47	Data management and analysis techniques used in the near X-ray and gamma-ray spectrometer systems. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 422, 582-585	1.2	5
46	Simulation of the heliosphere: Generalized charge-exchange cross sections. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 14803-14809		19
45	Solar probe: A mission to the sun and the inner core of the heliosphere. <i>Geophysical Monograph Series</i> , <b>1999</b> , 237-246	1.1	1
44	Data processing system for the Near-Earth Asteroid Rendezvous (NEAR) x-ray and gamma-ray spectrometer (XGRS) ground system <b>1999</b> ,		4
43	Simulation of the heliosphere: Model. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 1905-1912		48
42	Compact particle detector for space measurements: prototype performance <b>1998</b> , 3442, 105		3
41	Compositional mapping with the NEAR X ray/gamma ray spectrometer. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 23729-23750		40
40	The X-ray/Gamma-ray Spectrometer on the Near Earth Asteroid Rendezvous Mission. <i>Space Science Reviews</i> , <b>1997</b> , 82, 169-216	7.5	35
39	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> , <b>1995</b> , 72, 347-352	7.5	10
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3	A time-of-flight system on a chip suitable for space instrumentation		2
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