Peter Wurz

List of Publications by Year
in descending order

521 papers	18,590 citations	15466 65 h-index	24915 109 g-index
577 all docs	577 docs citations	577 times ranked	6592 citing authors

#	Article	IF	Citations
1	Global Observations of the Interstellar Interaction from the Interstellar Boundary Explorer (IBEX). Science, 2009, 326, 959-962.	6.0	461
2	67P/Churyumov-Gerasimenko, a Jupiter family comet with a high D/H ratio. Science, 2015, 347, 1261952.	6.0	403
3	Prebiotic chemicalsâ€"amino acid and phosphorusâ€"in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2016, 2, e1600285.	4.7	393
4	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. Space Science Reviews, 2008, 136, 437-486.	3.7	360
5	Rosina â€“ Rosetta Orbiter Spectrometer for Ion and Neutral Analysis. Space Science Reviews, 2007, 128, 745-801.	3.7	331
6	IBEXâ€"Interstellar Boundary Explorer. Space Science Reviews, 2009, 146, 11-33.	3.7	305
7	CELIAS - Charge, Element and Isotope Analysis System for SOHO. Solar Physics, 1995, 162, 441-481.	1.0	272
8	Abundant molecular oxygen in the coma of comet 67P/Churyumovâ€“Gerasimenko. Nature, 2015, 526, 678-681.	13.7	260
9	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. Space Science Reviews, 2007, 126, 113-164.	3.7	241
10	The Interstellar Boundary Explorer High Energy (IBEX-Hi) Neutral Atom Imager. Space Science Reviews, 2009, 146, 75-103.	3.7	226
11	Time variability and heterogeneity in the coma of 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0276.	6.0	222
12	The Analyser of Space Plasmas and Energetic Atoms (ASPERA-4) for the Venus Express mission. Planetary and Space Science, 2007, 55, 1772-1792.	0.9	214
13	Solar Wind-Induced Atmospheric Erosion at Mars: First Results from ASPERA-3 on Mars Express. Science, 2004, 305, 1933-1936.	6.0	204
14	Molecular nitrogen in comet 67P/Churyumov-Gerasimenko indicates a low formation temperature. Science, 2015, 348, 232-235.	6.0	195
15	High-yield synthesis, separation, and mass-spectrometric characterization of fullerenes C60 to C266. Journal of the American Chemical Society, 1991, 113, 7499-7503.	6.6	192
16	First Solar EUV Irradiances Obtained from SOHO by the Celias/Sem. Solar Physics, 1998, 177, 161-173.	1.0	177
17	The IBEX-Lo Sensor. Space Science Reviews, 2009, 146, 117-147.	3.7	171
18	The loss of ions from Venus through the plasma wake. Nature, 2007, 450, 650-653.	13.7	168

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19	Energetic neutral atoms as the explanation for the high-velocity hydrogen around HD 209458b. Nature, 2008, 451, 970-972.	13.7	167
20	Width and Variation of the ENA Flux Ribbon Observed by the Interstellar Boundary Explorer. Science, 2009, 326, 962-964.	6.0	166
21	Xenon isotopes in 67P/Churyumov-Gerasimenko show that comets contributed to Earth's atmosphere. Science, 2017, 356, 1069-1072.	6.0	161
22	INTERSTELLAR GAS FLOW PARAMETERS DERIVED FROM INTERSTELLAR BOUNDARY EXPLORER-Lo OBSERVATIONS IN 2009 AND 2010: ANALYTICAL ANALYSIS. Astrophysical Journal, Supplement Series, 2012, 198, 11.	3.0	160
23	Multiphoton excitation, dissociation, and ionization of fullerene (C60). The Journal of Physical Chemistry, 1992, 96, 10129-10139.	2.9	153
24	The lunar exosphere: The sputtering contribution. Icarus, 2007, 191, 486-496.	1.1	141
25	The Solar Orbiter Solar Wind Analyser (SWA) suite. Astronomy and Astrophysics, 2020, 642, A16.	2.1	141
26	Direct Observations of Interstellar H, He, and O by the Interstellar Boundary Explorer. Science, 2009, 326, 969-971.	6.0	135
27	Extremely high reflection of solar wind protons as neutral hydrogen atoms from regolith in space. Planetary and Space Science, 2009, 57, 2132-2134.	0.9	130
28	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	3.7	129
29	LOCAL INTERSTELLAR MEDIUM: SIX YEARS OF DIRECT SAMPLING BY IBEX. Astrophysical Journal, Supplement Series, 2015, 220, 22.	3.0	128
30	Strong influence of lunar crustal fields on the solar wind flow. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	125
31	Processes that Promote and Deplete the Exosphere ofÂMercury. Space Science Reviews, 2007, 132, 433-509.	3.7	121
32	Understanding Interplanetary Coronal Mass Ejection Signatures. Space Science Reviews, 2006, 123, 177-216.	3.7	119
33	First observation of a miniâ€magnetosphere above a lunar magnetic anomaly using energetic neutral atoms. Geophysical Research Letters, 2010, 37, .	1.5	114
34	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 489, 594-607.	1.6	112
35	The low-energy neutral atom imager for IMAGE. Space Science Reviews, 2000, 91, 155-195.	3.7	111
36	Monte-Carlo simulation of Mercury's exosphere. Icarus, 2003, 164, 1-13.	1.1	111

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37	Plasma Acceleration Above Martian Magnetic Anomalies. Science, 2006, 311, 980-983.	6.0	111
38	ENERGETIC NEUTRAL ATOMS AROUND HD 209458b: ESTIMATIONS OF MAGNETOSPHERIC PROPERTIES. Astrophysical Journal, 2010, 709, 670-679.	1.6	109
39	Carbon dioxide photoelectron energy peaks at Mars. Icarus, 2006, 182, 371-382.	1.1	105
40	Mass composition of the escaping plasma at Mars. Icarus, 2006, 182, 320-328.	1.1	103
41	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. Planetary and Space Science, 2008, 56, 873-880.	0.9	102
42	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. III. MACH NUMBER OF THE FLOW, VELOCITY VECTOR, AND TEMPERATURE FROM THE FIRST SIX YEARS OF MEASUREMENTS. Astrophysical Journal, Supplement Series, 2015, 220, 28.	3.0	99
43	SEPARATION OF THE RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX USING THE FIRST FIVE YEARS OF IBEX OBSERVATIONS. Astrophysical Journal, Supplement Series, 2014, 215, 13.	3.0	97
44	Comparison of 3D kinetic and hydrodynamic models to ROSINA-COPS measurements of the neutral coma of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A7.	2.1	93
45	Influence of spacecraft outgassing on the exploration of tenuous atmospheres with in situ mass spectrometry. Journal of Geophysical Research, 2010, 115, .	3.3	91
46	Self-consistent modelling of Mercuryâ€™s exosphere by sputtering, micro-meteorite impact and photon-stimulated desorption. Planetary and Space Science, 2010, 58, 1599-1616.	0.9	90
47	Detection of argon in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2015, 1, e1500377.	4.7	87
48	Detection of 55â€“80 keV Hydrogen Atoms of Heliospheric Origin by CELIAS/HSTOF onSOHO. Astrophysical Journal, 1998, 503, 916-922.	1.6	86
49	Mapping of the cusp plasma precipitation on the surface of Mercury. Icarus, 2003, 166, 229-237.	1.1	83
50	Structure of the martian wake. Icarus, 2006, 182, 329-336.	1.1	81
51	Locations of Atmospheric Photoelectron Energy Peaks Within the Mars Environment. Space Science Reviews, 2007, 126, 389-402.	3.7	81
52	Delayed electron emission from photoexcited C60. Journal of Chemical Physics, 1991, 95, 7008-7010.	1.2	80
53	The sodium exosphere of Mercury: Comparison between observations during Mercury's transit and model results. Icarus, 2009, 200, 1-11.	1.1	80
54	WARM BREEZE FROM THE STARBOARD BOW: A NEW POPULATION OF NEUTRAL HELIUM IN THE HELIOSPHERE. Astrophysical Journal, Supplement Series, 2014, 213, 29.	3.0	77

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55	Hydrogen and oxygen negative ion production by surface ionization using diamond surfaces. Surface Science, 1997, 373, 56-66.	0.8	76
56	Surface-Exosphere-Magnetosphere System Of Mercury. Space Science Reviews, 2005, 117, 397-443.	3.7	76
57	Performance evaluation of a miniature laser ablation timeâ€ofâ€flight mass spectrometer designed for in situ investigations in planetary space research. Journal of Mass Spectrometry, 2013, 48, 1-15.	0.7	76
58	Ionospheric plasma of comet 67P probed byRosettaat 3Âau from the Sun. Monthly Notices of the Royal Astronomical Society, 2016, 462, S331-S351.	1.6	75
59	Coupling of LMS with a fs-laser ablation ion source: elemental and isotope composition measurements. Journal of Analytical Atomic Spectrometry, 2013, 28, 1256.	1.6	73
60	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. IV. FLOW VECTOR, MACH NUMBER, AND ABUNDANCE OF THE WARM BREEZE. Astrophysical Journal, Supplement Series, 2016, 223, 25.	3.0	71
61	Investigating Mercuryâ€™s Environment with the Two-Spacecraft BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	3.7	71
62	Comet-like tail-formation of exospheres of hot rocky exoplanets: Possible implications for CoRoT-7b. Icarus, 2011, 211, 1-9.	1.1	69
63	Scientific rationale for Uranus and Neptune in situ explorations. Planetary and Space Science, 2018, 155, 12-40.	0.9	69
64	A miniature laser ablation time-of-flight mass spectrometer forin situplanetary exploration. Measurement Science and Technology, 2003, 14, 2159-2164.	1.4	68
65	Composition-dependent outgassing of comet 67P/Churyumov-Gerasimenko from ROSINA/DFMS. Astronomy and Astrophysics, 2015, 583, A4.	2.1	67
66	Energetic neutral atoms from the Earth's subsolar magnetopause. Geophysical Research Letters, 2010, 37, .	1.5	66
67	Change of outgassing pattern of 67P/Churyumovâ€“Gerasimenko during the March 2016 equinox as seen by ROSINA. Monthly Notices of the Royal Astronomical Society, 2017, 469, S108-S117.	1.6	66
68	Location of the bow shock and ion composition boundaries at Venusâ€”initial determinations from Venus Express ASPERA-4. Planetary and Space Science, 2008, 56, 780-784.	0.9	64
69	Fullerenes and giant fullerenes: Synthesis, separation, and mass spectrometric characterization. Carbon, 1992, 30, 1167-1182.	5.4	63
70	Kinetic properties of solar wind minor ions and protons measured with SOHO/CELIAS. Journal of Geophysical Research, 1998, 103, 29697-29704.	3.3	61
71	Isotopic composition of solar wind neon measured by CELIAS/MTOF on board SOHO. Journal of Geophysical Research, 1997, 102, 26895-26904.	3.3	60
72	The variability of Mercury's exosphere by particle and radiation induced surface release processes. Icarus, 2003, 166, 238-247.	1.1	59

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73	LOCAL INTERSTELLAR NEUTRAL HYDROGEN SAMPLED IN SITU BY IBEX. Astrophysical Journal, Supplement Series, 2012, 198, 14.	3.0	59
74	INTERSTELLAR FLOW AND TEMPERATURE DETERMINATION WITH IBEX : ROBUSTNESS AND SENSITIVITY TO SYSTEMATIC EFFECTS. Astrophysical Journal, Supplement Series, 2015, 220, 24.	3.0	59
75	Solar wind measurements with SOHO: The CELIAS/MTOF proton monitor. Journal of Geophysical Research, 1998, 103, 17205-17213.	3.3	58
76	ORIGIN OF MOLECULAR OXYGEN IN COMET 67P/CHURYUMOVâ€“GERASIMENKO. Astrophysical Journal Letters, 2016, 823, L41.	3.0	58
77	ESTIMATION OF THE NEON/OXYGEN ABUNDANCE RATIO AT THE HELIOSPHERIC TERMINATION SHOCK AND IN THE LOCAL INTERSTELLAR MEDIUM FROM IBEX OBSERVATIONS. Astrophysical Journal, Supplement Series, 2012, 198, 13.	3.0	57
78	SOLAR RADIATION PRESSURE AND LOCAL INTERSTELLAR MEDIUM FLOW PARAMETERS FROMINTERSTELLAR BOUNDARY EXPLORERLOW ENERGY HYDROGEN MEASUREMENTS. Astrophysical Journal, 2013, 775, 86.	1.6	57
79	Heliosheath Processes and the Structure of the Heliopause: Modeling Energetic Particles, Cosmic Rays, and Magnetic Fields. Space Science Reviews, 2017, 212, 193-248.	3.7	57
80	Observations of neutral atoms from the solar wind. Journal of Geophysical Research, 2001, 106, 24893-24906.	3.3	56
81	Numerical interpretation of high-altitude photoelectron observations. Icarus, 2006, 182, 383-395.	1.1	56
82	Remote energetic neutral atom imaging of electric potential over a lunar magnetic anomaly. Geophysical Research Letters, 2013, 40, 262-266.	1.5	56
83	An EXAFS study of the metallofullerene YC82: is the yttrium inside the cage?. The Journal of Physical Chemistry, 1992, 96, 7153-7156.	2.9	55
84	A novel principle for an ion mirror design in time-of-flight mass spectrometry. International Journal of Mass Spectrometry, 2006, 251, 73-81.	0.7	55
85	SERENA: A suite of four instruments (ELENA, STROFIO, PICAM and MIPA) on board BepiColombo-MPO for particle detection in the Hermean environment. Planetary and Space Science, 2010, 58, 166-181.	0.9	55
86	Highly accurate isotope composition measurements by a miniature laser ablation mass spectrometer designed for in situ investigations on planetary surfaces. Planetary and Space Science, 2013, 87, 1-13.	0.9	55
87	Performance evaluation of a miniature laser ablation timeâ€ofâ€flight mass spectrometer designed for in situ investigations in planetary space research. Journal of Mass Spectrometry, 2013, 48, i.	0.7	55
88	Electric fields within the martian magnetosphere and ion extraction: ASPERA-3 observations. Icarus, 2006, 182, 337-342.	1.1	54
89	Electron oscillations in the induced martian magnetosphere. Icarus, 2006, 182, 360-370.	1.1	54
90	High-Resolution Chemical Depth Profiling of Solid Material Using a Miniature Laser Ablation/Ionization Mass Spectrometer. Analytical Chemistry, 2015, 87, 2037-2041.	3.2	54

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91	Direct detection of neutral products from photodissociated fullerene (C60). The Journal of Physical Chemistry, 1992, 96, 3191-3193.	2.9	53
92	First ENA observations at Mars: ENA emissions from the martian upper atmosphere. Icarus, 2006, 182, 424-430.	1.1	53
93	Neutral atom imaging of the magnetospheric cusps. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	53
94	Empirical energy spectra of neutralized solar wind protons from the lunar regolith. Journal of Geophysical Research, 2012, 117, .	3.3	53
95	LOW ENERGY NEUTRAL ATOMS FROM THE HELIOSHEATH. Astrophysical Journal, 2014, 784, 89.	1.6	53
96	Mercuryâ€™s Surface Composition and Character as Measured by Ground-Based Observations. Space Science Reviews, 2007, 132, 399-431.	3.7	52
97	Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2018, 4, eaar6297.	4.7	52
98	Surface enrichment of Li on LiF single crystal after cleaving or under electron bombardment. Surface Science, 1989, 224, 559-569.	0.8	50
99	Ion outflow observed by IMAGE: Implications for source regions and heating mechanisms. Geophysical Research Letters, 2001, 28, 1163-1166.	1.5	50
100	A miniature mass analyser for in-situ elemental analysis of planetary materialâ€“performance studies. Analytical and Bioanalytical Chemistry, 2011, 399, 2185-2200.	1.9	50
101	Scientific rationale for Saturn×³s in situ exploration. Planetary and Space Science, 2014, 104, 29-47.	0.9	49
102	Ionospheric plasma acceleration at Mars: ASPERA-3 results. Icarus, 2006, 182, 308-319.	1.1	48
103	The contribution of impulsive meteoritic impact vapourization to the Hermean exosphere. Planetary and Space Science, 2007, 55, 1541-1556.	0.9	48
104	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. Planetary and Space Science, 2008, 56, 802-806.	0.9	48
105	Comparative analysis of Venus and Mars magnetotails. Planetary and Space Science, 2008, 56, 812-817.	0.9	48
106	Energetic neutral atom imaging of the lunar surface. Journal of Geophysical Research: Space Physics, 2013, 118, 3937-3945.	0.8	47
107	Solar wind sputtering of dust on the surface of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A22.	2.1	47
108	Toward Three-Dimensional Chemical Imaging of Ternary Cuâ€“Snâ€“Pb Alloys Using Femtosecond Laser Ablation/Ionization Mass Spectrometry. Analytical Chemistry, 2017, 89, 1632-1641.	3.2	47

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109	Diagnosing the Neutral Interstellar Gas Flow at 1 AU with IBEX-Lo. Space Science Reviews, 2009, 146, 149-172.	3.7	46
110	HELIOSPHERIC NEUTRAL ATOM SPECTRA BETWEEN 0.01 AND 6 keV FROMIBEX. Astrophysical Journal, 2012, 754, 14.	1.6	46
111	Rationale for BepiColombo Studies of Mercuryâ€™s Surface and Composition. Space Science Reviews, 2020, 216, 1.	3.7	46
112	Study of the main geochemical characteristics of Phobosâ€™ regolith using laser time-of-flight mass spectrometry. Solar System Research, 2010, 44, 376-384.	0.3	44
113	Energetic neutral atom observations of magnetic anomalies on the lunar surface. Journal of Geophysical Research, 2012, 117, .	3.3	44
114	Selfâ€consistent multifluid MHD simulations of Europa's exospheric interaction with Jupiter's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 3503-3524.	0.8	44
115	Chemical Composition of Micrometer-Sized Filaments in an Aragonite Host by a Miniature Laser Ablation/Ionization Mass Spectrometer. Astrobiology, 2015, 15, 669-682.	1.5	44
116	REVISITING THE ISN FLOW PARAMETERS, USING A VARIABLEIBEXPOINTING STRATEGY. Astrophysical Journal, 2015, 804, 42.	1.6	44
117	Halogens as tracers of protosolar nebula material in comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1336-1345.	1.6	44
118	The Interstellar Boundary Explorer (IBEX). AIP Conference Proceedings, 2004, , .	0.3	43
119	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. Planetary and Space Science, 2010, 58, 40-60.	0.9	43
120	A neutral gas mass spectrometer for the investigation of lunar volatiles. Planetary and Space Science, 2012, 74, 264-269.	0.9	43
121	ROSINA/DFMS and IES observations of 67P: Ion-neutral chemistry in the coma of a weakly outgassing comet. Astronomy and Astrophysics, 2015, 583, A2.	2.1	43
122	A PROTOSOLAR NEBULA ORIGIN FOR THE ICES AGGLOMERATED BY COMET 67P/CHURYUMOVâ€“GERASIMENKO. Astrophysical Journal Letters, 2016, 819, L33.	3.0	43
123	Electron-stimulated desorption of neutral lithium atoms from LiF due to excitation of surface excitons. Physical Review B, 1991, 43, 6729-6732.	1.1	42
124	Low energy neutral atoms in the magnetosphere. Geophysical Research Letters, 2001, 28, 1143-1146.	1.5	42
125	First ENA observations at Mars: Subsolar ENA jet. Icarus, 2006, 182, 413-423.	1.1	42
126	The Hydrogen Exospheric Density Profile Measured with ASPERA-3/NPD. Space Science Reviews, 2007, 126, 447-467.	3.7	42

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127	Protons in the nearâ€lunar wake observed by the Subâ€keV Atom Reflection Analyzer on board Chandrayaanâ€1. Journal of Geophysical Research, 2010, 115, .	3.3	42
128	Kinetic simulations of finite gyroradius effects in the lunar plasma environment on global, meso, and microscales. Planetary and Space Science, 2012, 74, 146-155.	0.9	42
129	Kinetics of multiphoton excitation and fragmentation of C60. Chemical Physics, 1994, 184, 335-346.	0.9	41
130	Probing the Allende meteorite with a miniature laser-ablation mass analyser for space application. Planetary and Space Science, 2014, 101, 196-209.	0.9	41
131	The Science Case for a Return to Enceladus. Planetary Science Journal, 2021, 2, 132.	1.5	40
132	Superconductivity at 28.6 K in a rubidium-C60 fullerene compound, RbxC60, synthesized by a solution-phase technique. Inorganic Chemistry, 1991, 30, 2962-2963.	1.9	39
133	First easily reproduced solution-phase synthesis and confirmation of superconductivity in the fullerene KxC60 (Tc = 18.0 .+-. 0.1 K). Inorganic Chemistry, 1991, 30, 2838-2839.	1.9	39
134	Fast one-step separation and purification of buckminsterfullerene, C60, from carbon soot. Journal of Organic Chemistry, 1992, 57, 3253-3254.	1.7	39
135	First ENA observations at Mars: Charge exchange ENAs produced in the magnetosheath. Icarus, 2006, 182, 431-438.	1.1	39
136	On vertical electric fields at lunar magnetic anomalies. Geophysical Research Letters, 2014, 41, 2243-2249.	1.5	39
137	Plasma Sources in Planetary Magnetospheres: Mercury. Space Science Reviews, 2015, 192, 91-144.	3.7	39
138	Velocity distributions and photodissociation of neutral C60and C70clusters. Journal of Applied Physics, 1991, 70, 6647-6652.	1.1	38
139	The presence of clathrates in comet 67P/Churyumov-Gerasimenko. Science Advances, 2016, 2, e1501781.	4.7	38
140	Fully automatic and precise data analysis developed for timeâ€ofâ€flight mass spectrometry. Journal of Mass Spectrometry, 2017, 52, 580-590.	0.7	38
141	Plasma and Magnetic Field Parameters in the Vicinity of Shortâ€periodic Giant Exoplanets. Astrophysical Journal, Supplement Series, 2005, 157, 396-401.	3.0	37
142	Temporal Evolution of the Solar Wind Bulk Velocity atÂSolar Minimum by Correlating the STEREO A andÂBÂPLASTIC Measurements. Solar Physics, 2009, 256, 365-377.	1.0	37
143	A new view on the solar wind interaction with the Moon. Geoscience Letters, 2015, 2, .	1.3	37
144	Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations. Astrophysical Journal, Supplement Series, 2018, 239, 1.	3.0	37

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145	First Solar EUV Irradiances Obtained from SOHO by the CELIAS/SEM. , 1998, , 161-173.		37
146	Neutral atom imaging mass spectrograph. Optical Engineering, 1995, 34, 2365.	0.5	36
147	Highly miniaturized laser ablation time-of-flight mass spectrometer for a planetary rover. Review of Scientific Instruments, 2004, 75, 1314-1322.	0.6	36
148	Observations of magnetic anomaly signatures in Mars Express ASPERA-3 ELS data. Icarus, 2006, 182, 396-405.	1.1	36
149	Monte-Carlo simulation of Callistoâ€™s exosphere. Icarus, 2015, 262, 14-29.	1.1	36
150	3D-modeling of Mercury's solar wind sputtered surface-exosphere environment. Planetary and Space Science, 2015, 115, 90-101.	0.9	36
151	Towards a Global Unified Model of Europaâ€™s Tenuous Atmosphere. Space Science Reviews, 2018, 214, 1.	3.7	36
152	Determination of low-energy ion-induced electron yields from thin carbon foils. Nuclear Instruments & Methods in Physics Research B, 2003, 211, 487-494.	0.6	35
153	Low energy neutral atom imaging on the Moon with the SARA instrument aboard Chandrayaan-1 mission. Journal of Earth System Science, 2005, 114, 749-760.	0.6	35
154	Plasma intrusion above Mars crustal fieldsâ€”Mars Express ASPERA-3 observations. Icarus, 2006, 182, 406-412.	1.1	35
155	High-speed microstrip multi-anode multichannel plate detector system. Review of Scientific Instruments, 2017, 88, 045114.	0.6	35
156	Isotopic composition of CO₂in the coma of 67P/Churyumov-Gerasimenko measured with ROSINA/DFMS. Astronomy and Astrophysics, 2017, 605, A50.	2.1	35
157	The Downwind Hemisphere of the Heliosphere: Eight Years of IBEX-Lo Observations. Astrophysical Journal, 2017, 851, 2.	1.6	35
158	Chemical and Optical Identification of Micrometer-Sized 1.9 Billion-Year-Old Fossils by Combining a Miniature Laser Ablation Ionization Mass Spectrometry System with an Optical Microscope. Astrobiology, 2018, 18, 1071-1080.	1.5	35
159	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. VI. The He⁺ Density and the Ionization State in the Very Local Interstellar Matter. Astrophysical Journal, 2019, 882, 60.	1.6	35
160	Collisional and electronic processes under ion, electron and photon bombardment of alkali and alkaline-earth halides. Nuclear Instruments & Methods in Physics Research B, 1988, 33, 824-829.	0.6	34
161	Ion escape at Mars: Comparison of a 3-D hybrid simulation with Mars Express IMA/ASPERA-3 measurements. Icarus, 2006, 182, 350-359.	1.1	34
162	CAMAM: A Miniature Laser Ablation Ionisation Mass Spectrometer and Microscopeâ€Camera System for In Situ Investigation of the Composition and Morphology of Extraterrestrial Materials. Geostandards and Geoanalytical Research, 2014, 38, 441-466.	1.7	34

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163	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. V. Observations in IBEX-Lo ESA Steps 1, 2, and 3. Astrophysical Journal, 2018, 854, 119.	1.6	34
164	Europaâ€™s ice-related atmosphere: The sputter contribution. Icarus, 2018, 311, 135-145.	1.1	34
165	Particle Scattering off Surfaces: Application in Space Science. E-Journal of Surface Science and Nanotechnology, 2006, 4, 394-400.	0.1	33
166	Direct Measurements of Energetic Neutral Hydrogen in the Interplanetary Medium. Astrophysical Journal, 2006, 644, 1317-1325.	1.6	32
167	Quantitative measurement of the chemical composition of geological standards with a miniature laser ablation/ionization mass spectrometer designed forin situapplication in space research. Measurement Science and Technology, 2016, 27, 035904.	1.4	32
168	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). Space Science Reviews, 2021, 217, 1.	3.7	32
169	Elemental Abundances for the 1996 Streamer Belt. Astrophysical Journal, 2003, 585, 1062-1072.	1.6	32
170	Venus tail ray observation near Earth. Geophysical Research Letters, 1997, 24, 1163-1166.	1.5	31
171	High negative ion yield from light molecule scattering. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 330-339.	0.6	31
172	Mercury's surface and composition to be studied by BepiColombo. Planetary and Space Science, 2010, 58, 21-39.	0.9	31
173	Lunar energetic neutral atom (ENA) spectra measured by the interstellar boundary explorer (IBEX). Planetary and Space Science, 2013, 85, 232-242.	0.9	31
174	Reflection of solar wind hydrogen from the lunar surface. Journal of Geophysical Research E: Planets, 2013, 118, 292-305.	1.5	31
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