

# Peter Wurz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3642178/publications.pdf>

Version: 2024-02-01

521  
papers

18,590  
citations

15504

65  
h-index

24982

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.	12.6	461
2	67P/Churyumov-Gerasimenko, a Jupiter family comet with a high D/H ratio. Science, 2015, 347, 1261952.	12.6	403
3	Prebiotic chemicalsâ€”amino acid and phosphorusâ€”in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2016, 2, e1600285.	10.3	393
4	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. Space Science Reviews, 2008, 136, 437-486.	8.1	360
5	Rosina â€” Rosetta Orbiter Spectrometer for Ion and Neutral Analysis. Space Science Reviews, 2007, 128, 745-801.	8.1	331
6	IBEXâ€”Interstellar Boundary Explorer. Space Science Reviews, 2009, 146, 11-33.	8.1	305
7	CELIAS - Charge, Element and Isotope Analysis System for SOHO. Solar Physics, 1995, 162, 441-481.	2.5	272
8	Abundant molecular oxygen in the coma of comet 67P/Churyumovâ€”Gerasimenko. Nature, 2015, 526, 678-681.	27.8	260
9	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. Space Science Reviews, 2007, 126, 113-164.	8.1	241
10	The Interstellar Boundary Explorer High Energy (IBEX-Hi) Neutral Atom Imager. Space Science Reviews, 2009, 146, 75-103.	8.1	226
11	Time variability and heterogeneity in the coma of 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0276.	12.6	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.	1.7	214
13	Solar Wind-Induced Atmospheric Erosion at Mars: First Results from ASPERA-3 on Mars Express. Science, 2004, 305, 1933-1936.	12.6	204
14	Molecular nitrogen in comet 67P/Churyumov-Gerasimenko indicates a low formation temperature. Science, 2015, 348, 232-235.	12.6	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.	13.7	192
16	First Solar EUV Irradiances Obtained from SOHO by the Cielas/Sem. Solar Physics, 1998, 177, 161-173.	2.5	177
17	The IBEX-Lo Sensor. Space Science Reviews, 2009, 146, 117-147.	8.1	171
18	The loss of ions from Venus through the plasma wake. Nature, 2007, 450, 650-653.	27.8	168

#	ARTICLE	IF	CITATIONS
19	Energetic neutral atoms as the explanation for the high-velocity hydrogen around HD 209458b. <i>Nature</i> , 2008, 451, 970-972.	27.8	167
20	Width and Variation of the ENA Flux Ribbon Observed by the Interstellar Boundary Explorer. <i>Science</i> , 2009, 326, 962-964.	12.6	166
21	Xenon isotopes in 67P/Churyumov-Gerasimenko show that comets contributed to Earth's atmosphere. <i>Science</i> , 2017, 356, 1069-1072.	12.6	161
22	INTERSTELLAR GAS FLOW PARAMETERS DERIVED FROM INTERSTELLAR BOUNDARY EXPLORER-Lo OBSERVATIONS IN 2009 AND 2010: ANALYTICAL ANALYSIS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 198, 11.	7.7	160
23	Multiphoton excitation, dissociation, and ionization of fullerene (C60). <i>The Journal of Physical Chemistry</i> , 1992, 96, 10129-10139.	2.9	153
24	The lunar exosphere: The sputtering contribution. <i>Icarus</i> , 2007, 191, 486-496.	2.5	141
25	The Solar Orbiter Solar Wind Analyser (SWA) suite. <i>Astronomy and Astrophysics</i> , 2020, 642, A16.	5.1	141
26	Direct Observations of Interstellar H, He, and O by the Interstellar Boundary Explorer. <i>Science</i> , 2009, 326, 969-971.	12.6	135
27	Extremely high reflection of solar wind protons as neutral hydrogen atoms from regolith in space. <i>Planetary and Space Science</i> , 2009, 57, 2132-2134.	1.7	130
28	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	129
29	LOCAL INTERSTELLAR MEDIUM: SIX YEARS OF DIRECT SAMPLING BY <i>IBEX</i>. <i>Astrophysical Journal, Supplement Series</i> , 2015, 220, 22.	7.7	128
30	Strong influence of lunar crustal fields on the solar wind flow. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	125
31	Processes that Promote and Deplete the Exosphere of Mercury. <i>Space Science Reviews</i> , 2007, 132, 433-509.	8.1	121
32	Understanding Interplanetary Coronal Mass Ejection Signatures. <i>Space Science Reviews</i> , 2006, 123, 177-216.	8.1	119
33	First observation of a mini-magnetosphere above a lunar magnetic anomaly using energetic neutral atoms. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	114
34	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 594-607.	4.4	112
35	The low-energy neutral atom imager for IMAGE. <i>Space Science Reviews</i> , 2000, 91, 155-195.	8.1	111
36	Monte-Carlo simulation of Mercury's exosphere. <i>Icarus</i> , 2003, 164, 1-13.	2.5	111

#	ARTICLE	IF	CITATIONS
37	Plasma Acceleration Above Martian Magnetic Anomalies. <i>Science</i> , 2006, 311, 980-983.	12.6	111
38	ENERGETIC NEUTRAL ATOMS AROUND HD 209458b: ESTIMATIONS OF MAGNETOSPHERIC PROPERTIES. <i>Astrophysical Journal</i> , 2010, 709, 670-679.	4.5	109
39	Carbon dioxide photoelectron energy peaks at Mars. <i>Icarus</i> , 2006, 182, 371-382.	2.5	105
40	Mass composition of the escaping plasma at Mars. <i>Icarus</i> , 2006, 182, 320-328.	2.5	103
41	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. <i>Planetary and Space Science</i> , 2008, 56, 873-880.	1.7	102
42	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM <i>IBEX</i> OBSERVATIONS. III. MACH NUMBER OF THE FLOW, VELOCITY VECTOR, AND TEMPERATURE FROM THE FIRST SIX YEARS OF MEASUREMENTS. <i>Astrophysical Journal, Supplement Series</i> , 2015, 220, 28.	7.7	99
43	SEPARATION OF THE RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX USING THE FIRST FIVE YEARS OF <i>IBEX</i> OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 215, 13.	7.7	97
44	Comparison of 3D kinetic and hydrodynamic models to ROSINA-COPS measurements of the neutral coma of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A7.	5.1	93
45	Influence of spacecraft outgassing on the exploration of tenuous atmospheres with in situ mass spectrometry. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	91
46	Self-consistent modelling of Mercury's exosphere by sputtering, micro-meteorite impact and photon-stimulated desorption. <i>Planetary and Space Science</i> , 2010, 58, 1599-1616.	1.7	90
47	Detection of argon in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2015, 1, e1500377.	10.3	87
48	Detection of 55–80 keV Hydrogen Atoms of Heliospheric Origin by CELIAS/HSTOF on SOHO. <i>Astrophysical Journal</i> , 1998, 503, 916-922.	4.5	86
49	Mapping of the cusp plasma precipitation on the surface of Mercury. <i>Icarus</i> , 2003, 166, 229-237.	2.5	83
50	Structure of the martian wake. <i>Icarus</i> , 2006, 182, 329-336.	2.5	81
51	Locations of Atmospheric Photoelectron Energy Peaks Within the Mars Environment. <i>Space Science Reviews</i> , 2007, 126, 389-402.	8.1	81
52	Delayed electron emission from photoexcited C60. <i>Journal of Chemical Physics</i> , 1991, 95, 7008-7010.	3.0	80
53	The sodium exosphere of Mercury: Comparison between observations during Mercury's transit and model results. <i>Icarus</i> , 2009, 200, 1-11.	2.5	80
54	WARM BREEZE FROM THE STARBOARD BOW: A NEW POPULATION OF NEUTRAL HELIUM IN THE HELIOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , 2014, 213, 29.	7.7	77

#	ARTICLE	IF	CITATIONS
55	Hydrogen and oxygen negative ion production by surface ionization using diamond surfaces. <i>Surface Science</i> , 1997, 373, 56-66.	1.9	76
56	Surface-Exosphere-Magnetosphere System Of Mercury. <i>Space Science Reviews</i> , 2005, 117, 397-443.	8.1	76
57	Performance evaluation of a miniature laser ablation time-of-flight mass spectrometer designed for <i>in situ</i> investigations in planetary space research. <i>Journal of Mass Spectrometry</i> , 2013, 48, 1-15.	1.6	76
58	Ionospheric plasma of comet 67P probed by <i>Rosetta</i> at 3 Åu from the Sun. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S331-S351.	4.4	75
59	Coupling of LMS with a fs-laser ablation ion source: elemental and isotope composition measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1256.	3.0	73
60	INTERSTELLAR NEUTRAL HELIUM IN THE HELIOSPHERE FROM IBEX OBSERVATIONS. IV. FLOW VECTOR, MACH NUMBER, AND ABUNDANCE OF THE WARM BREEZE. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 25.	7.7	71
61	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	71
62	Comet-like tail-formation of exospheres of hot rocky exoplanets: Possible implications for CoRoT-7b. <i>Icarus</i> , 2011, 211, 1-9.	2.5	69
63	Scientific rationale for Uranus and Neptune <i>in situ</i> explorations. <i>Planetary and Space Science</i> , 2018, 155, 12-40.	1.7	69
64	A miniature laser ablation time-of-flight mass spectrometer for <i>in situ</i> planetary exploration. <i>Measurement Science and Technology</i> , 2003, 14, 2159-2164.	2.6	68
65	Composition-dependent outgassing of comet 67P/Churyumov-Gerasimenko from ROSINA/DFMS. <i>Astronomy and Astrophysics</i> , 2015, 583, A4.	5.1	67
66	Energetic neutral atoms from the Earth's subsolar magnetopause. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	66
67	Change of outgassing pattern of 67P/Churyumov-Gerasimenko during the March 2016 equinox as seen by ROSINA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S108-S117.	4.4	66
68	Location of the bow shock and ion composition boundaries at Venus's initial determinations from Venus Express ASPERA-4. <i>Planetary and Space Science</i> , 2008, 56, 780-784.	1.7	64
69	Fullerenes and giant fullerenes: Synthesis, separation, and mass spectrometric characterization. <i>Carbon</i> , 1992, 30, 1167-1182.	10.3	63
70	Kinetic properties of solar wind minor ions and protons measured with SOHO/CELIAS. <i>Journal of Geophysical Research</i> , 1998, 103, 29697-29704.	3.3	61
71	Isotopic composition of solar wind neon measured by CELIAS/MTOF on board SOHO. <i>Journal of Geophysical Research</i> , 1997, 102, 26895-26904.	3.3	60
72	The variability of Mercury's exosphere by particle and radiation induced surface release processes. <i>Icarus</i> , 2003, 166, 238-247.	2.5	59

#	ARTICLE	IF	CITATIONS
73	LOCAL INTERSTELLAR NEUTRAL HYDROGEN SAMPLED IN SITU BY <i>IBEX</i>. Astrophysical Journal, Supplement Series, 2012, 198, 14.	7.7	59
74	INTERSTELLAR FLOW AND TEMPERATURE DETERMINATION WITH <i>IBEX</i> : ROBUSTNESS AND SENSITIVITY TO SYSTEMATIC EFFECTS. Astrophysical Journal, Supplement Series, 2015, 220, 24.	7.7	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.	8.3	58
77	ESTIMATION OF THE NEON/OXYGEN ABUNDANCE RATIO AT THE HELIOSPHERIC TERMINATION SHOCK AND IN THE LOCAL INTERSTELLAR MEDIUM FROM <i>IBEX</i> OBSERVATIONS. Astrophysical Journal, Supplement Series, 2012, 198, 13.	7.7	57
78	SOLAR RADIATION PRESSURE AND LOCAL INTERSTELLAR MEDIUM FLOW PARAMETERS FROM<i>INTERSTELLAR BOUNDARY EXPLORER</i>LOW ENERGY HYDROGEN MEASUREMENTS. Astrophysical Journal, 2013, 775, 86.	4.5	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.	8.1	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.	2.5	56
82	Remote energetic neutral atom imaging of electric potential over a lunar magnetic anomaly. Geophysical Research Letters, 2013, 40, 262-266.	4.0	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.	1.5	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.	1.7	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.	1.7	55
87	Performance evaluation of a miniature laser ablation timeâ€“ofâ€“flight mass spectrometer designed for <i>in situ</i> investigations in planetary space research. Journal of Mass Spectrometry, 2013, 48, i.	1.6	55
88	Electric fields within the martian magnetosphere and ion extraction: ASPERA-3 observations. Icarus, 2006, 182, 337-342.	2.5	54
89	Electron oscillations in the induced martian magnetosphere. Icarus, 2006, 182, 360-370.	2.5	54
90	High-Resolution Chemical Depth Profiling of Solid Material Using a Miniature Laser Ablation/Ionization Mass Spectrometer. Analytical Chemistry, 2015, 87, 2037-2041.	6.5	54

#	ARTICLE	IF	CITATIONS
91	Direct detection of neutral products from photodissociated fullerene (C <sub>60</sub> ). 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.	2.5	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.	4.5	53
96	Mercury's Surface Composition and Character as Measured by Ground-Based Observations. Space Science Reviews, 2007, 132, 399-431.	8.1	52
97	Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2018, 4, eaar6297.	10.3	52
98	Surface enrichment of Li on LiF single crystal after cleaving or under electron bombardment. Surface Science, 1989, 224, 559-569.	1.9	50
99	Ion outflow observed by IMAGE: Implications for source regions and heating mechanisms. Geophysical Research Letters, 2001, 28, 1163-1166.	4.0	50
100	A miniature mass analyser for in-situ elemental analysis of planetary material – performance studies. Analytical and Bioanalytical Chemistry, 2011, 399, 2185-2200.	3.7	50
101	Scientific rationale for Saturn's in situ exploration. Planetary and Space Science, 2014, 104, 29-47.	1.7	49
102	Ionospheric plasma acceleration at Mars: ASPERA-3 results. Icarus, 2006, 182, 308-319.	2.5	48
103	The contribution of impulsive meteoritic impact vapourization to the Hermean exosphere. Planetary and Space Science, 2007, 55, 1541-1556.	1.7	48
104	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. Planetary and Space Science, 2008, 56, 802-806.	1.7	48
105	Comparative analysis of Venus and Mars magnetotails. Planetary and Space Science, 2008, 56, 812-817.	1.7	48
106	Energetic neutral atom imaging of the lunar surface. Journal of Geophysical Research: Space Physics, 2013, 118, 3937-3945.	2.4	47
107	Solar wind sputtering of dust on the surface of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A22.	5.1	47
108	Toward Three-Dimensional Chemical Imaging of Ternary Cu-Sn-Pb Alloys Using Femtosecond Laser Ablation/Ionization Mass Spectrometry. Analytical Chemistry, 2017, 89, 1632-1641.	6.5	47

#	ARTICLE	IF	CITATIONS
109	Diagnosing the Neutral Interstellar Gas Flow at 1 AU with IBEX-Lo. Space Science Reviews, 2009, 146, 149-172.	8.1	46
110	HELIOSPHERIC NEUTRAL ATOM SPECTRA BETWEEN 0.01 AND 6 keV FROM<i>IBEX</i>. Astrophysical Journal, 2012, 754, 14.	4.5	46
111	Rationale for BepiColombo Studies of Mercuryâ€™s Surface and Composition. Space Science Reviews, 2020, 216, 1.	8.1	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.	0.7	44
113	Energetic neutral atom observations of magnetic anomalies on the lunar surface. Journal of Geophysical Research, 2012, 117, .	3.3	44
114	Self-consistent multifluid MHD simulations of Europa's exospheric interaction with Jupiter's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 3503-3524.	2.4	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.	3.0	44
116	REVISITING THE ISN FLOW PARAMETERS, USING A VARIABLE<i>IBEX</i>POINTING STRATEGY. Astrophysical Journal, 2015, 804, 42.	4.5	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.	4.4	44
118	The Interstellar Boundary Explorer (IBEX). AIP Conference Proceedings, 2004, , .	0.4	43
119	The BepiColombo mission: An outstanding tool for investigating the Hermean environment. Planetary and Space Science, 2010, 58, 40-60.	1.7	43
120	A neutral gas mass spectrometer for the investigation of lunar volatiles. Planetary and Space Science, 2012, 74, 264-269.	1.7	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.	5.1	43
122	A PROTOSOLAR NEBULA ORIGIN FOR THE ICES AGGLOMERATED BY COMET 67P/CHURYUMOVâ€™GERASIMENKO. Astrophysical Journal Letters, 2016, 819, L33.	8.3	43
123	Electron-stimulated desorption of neutral lithium atoms from LiF due to excitation of surface excitons. Physical Review B, 1991, 43, 6729-6732.	3.2	42
124	Low energy neutral atoms in the magnetosphere. Geophysical Research Letters, 2001, 28, 1143-1146.	4.0	42
125	First ENA observations at Mars: Subsolar ENA jet. Icarus, 2006, 182, 413-423.	2.5	42
126	The Hydrogen Exospheric Density Profile Measured with ASPERA-3/NPD. Space Science Reviews, 2007, 126, 447-467.	8.1	42

#	ARTICLE	IF	CITATIONS
127	Protons in the near-E lunar wake observed by the Sub-keV Atom Reflection Analyzer on board Chandrayaan-1. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
128	Kinetic simulations of finite gyroradius effects in the lunar plasma environment on global, meso, and microscales. <i>Planetary and Space Science</i> , 2012, 74, 146-155.	1.7	42
129	Kinetics of multiphoton excitation and fragmentation of C60. <i>Chemical Physics</i> , 1994, 184, 335-346.	1.9	41
130	Probing the Allende meteorite with a miniature laser-ablation mass analyser for space application. <i>Planetary and Space Science</i> , 2014, 101, 196-209.	1.7	41
131	The Science Case for a Return to Enceladus. <i>Planetary Science Journal</i> , 2021, 2, 132.	3.6	40
132	Superconductivity at 28.6 K in a rubidium-C60 fullerene compound, RbxC60, synthesized by a solution-phase technique. <i>Inorganic Chemistry</i> , 1991, 30, 2962-2963.	4.0	39
133	First easily reproduced solution-phase synthesis and confirmation of superconductivity in the fullerene KxC60 (Tc = 18.0 +/- 0.1 K). <i>Inorganic Chemistry</i> , 1991, 30, 2838-2839.	4.0	39
134	Fast one-step separation and purification of buckminsterfullerene, C60, from carbon soot. <i>Journal of Organic Chemistry</i> , 1992, 57, 3253-3254.	3.2	39
135	First ENA observations at Mars: Charge exchange ENAs produced in the magnetosheath. <i>Icarus</i> , 2006, 182, 431-438.	2.5	39
136	On vertical electric fields at lunar magnetic anomalies. <i>Geophysical Research Letters</i> , 2014, 41, 2243-2249.	4.0	39
137	Plasma Sources in Planetary Magnetospheres: Mercury. <i>Space Science Reviews</i> , 2015, 192, 91-144.	8.1	39
138	Velocity distributions and photodissociation of neutral C60 and C70 clusters. <i>Journal of Applied Physics</i> , 1991, 70, 6647-6652.	2.5	38
139	The presence of clathrates in comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2016, 2, e1501781.	10.3	38
140	Fully automatic and precise data analysis developed for time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2017, 52, 580-590.	1.6	38
141	Plasma and Magnetic Field Parameters in the Vicinity of Short-Periodic Giant Exoplanets. <i>Astrophysical Journal, Supplement Series</i> , 2005, 157, 396-401.	7.7	37
142	Temporal Evolution of the Solar Wind Bulk Velocity at Solar Minimum by Correlating the STEREO A and ABPLASTIC Measurements. <i>Solar Physics</i> , 2009, 256, 365-377.	2.5	37
143	A new view on the solar wind interaction with the Moon. <i>Geoscience Letters</i> , 2015, 2, .	3.3	37
144	Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 1.	7.7	37

#	ARTICLE	IF	CITATIONS
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.	1.0	36
147	Highly miniaturized laser ablation time-of-flight mass spectrometer for a planetary rover. Review of Scientific Instruments, 2004, 75, 1314-1322.	1.3	36
148	Observations of magnetic anomaly signatures in Mars Express ASPERA-3 ELS data. Icarus, 2006, 182, 396-405.	2.5	36
149	Monte-Carlo simulation of Callisto's exosphere. Icarus, 2015, 262, 14-29.	2.5	36
150	3D-modeling of Mercury's solar wind sputtered surface-exosphere environment. Planetary and Space Science, 2015, 115, 90-101.	1.7	36
151	Towards a Global Unified Model of Europa's Tenuous Atmosphere. Space Science Reviews, 2018, 214, 1.	8.1	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.	1.4	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.	1.3	35
154	Plasma intrusion above Mars crustal fields Mars Express ASPERA-3 observations. Icarus, 2006, 182, 406-412.	2.5	35
155	High-speed microstrip multi-anode multichannel plate detector system. Review of Scientific Instruments, 2017, 88, 045114.	1.3	35
156	Isotopic composition of CO <sub>2</sub> in the coma of 67P/Churyumov-Gerasimenko measured with ROSINA/DFMS. Astronomy and Astrophysics, 2017, 605, A50.	5.1	35
157	The Downwind Hemisphere of the Heliosphere: Eight Years of IBEX-Lo Observations. Astrophysical Journal, 2017, 851, 2.	4.5	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.	3.0	35
159	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. VI. The He <sup>+</sup> Density and the Ionization State in the Very Local Interstellar Matter. Astrophysical Journal, 2019, 882, 60.	4.5	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.	1.4	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.	2.5	34
162	CAMAM: A Miniature Laser Ablation Ionisation Mass Spectrometer and Microscope Camera System for <i>In Situ</i> Investigation of the Composition and Morphology of Extraterrestrial Materials. Geostandards and Geoanalytical Research, 2014, 38, 441-466.	3.1	34

#	ARTICLE	IF	CITATIONS
163	Interstellar Neutral Helium in the Heliosphere from IBEX Observations. V. Observations in IBEX-Lo ESA Steps 1, 2, and 3. <i>Astrophysical Journal</i> , 2018, 854, 119.	4.5	34
164	Europa's ice-related atmosphere: The sputter contribution. <i>Icarus</i> , 2018, 311, 135-145.	2.5	34
165	Particle Scattering off Surfaces: Application in Space Science. <i>E-Journal of Surface Science and Nanotechnology</i> , 2006, 4, 394-400.	0.4	33
166	Direct Measurements of Energetic Neutral Hydrogen in the Interplanetary Medium. <i>Astrophysical Journal</i> , 2006, 644, 1317-1325.	4.5	32
167	Quantitative measurement of the chemical composition of geological standards with a miniature laser ablation/ionization mass spectrometer designed for <i>in situ</i> application in space research. <i>Measurement Science and Technology</i> , 2016, 27, 035904.	2.6	32
168	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	32
169	Elemental Abundances for the 1996 Streamer Belt. <i>Astrophysical Journal</i> , 2003, 585, 1062-1072.	4.5	32
170	Venus tail ray observation near Earth. <i>Geophysical Research Letters</i> , 1997, 24, 1163-1166.	4.0	31
171	High negative ion yield from light molecule scattering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 230, 330-339.	1.4	31
172	Mercury's surface and composition to be studied by BepiColombo. <i>Planetary and Space Science</i> , 2010, 58, 21-39.	1.7	31
173	Lunar energetic neutral atom (ENA) spectra measured by the interstellar boundary explorer (IBEX). <i>Planetary and Space Science</i> , 2013, 85, 232-242.	1.7	31
174	Reflection of solar wind hydrogen from the lunar surface. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 292-305.	3.6	31
175	CAN IBEX DETECT INTERSTELLAR NEUTRAL HELIUM OR OXYGEN FROM ANTI-RAM DIRECTIONS?. <i>Astrophysical Journal, Supplement Series</i> , 2015, 220, 30.	7.7	31
176	THE ROLL-OVER OF HELIOSPHERIC NEUTRAL HYDROGEN BELOW 100 eV: OBSERVATIONS AND IMPLICATIONS. <i>Astrophysical Journal</i> , 2016, 821, 107.	4.5	31
177	Rosetta Orbiter Spectrometer for Ion and Neutral Analysis – ROSINA. <i>Advances in Space Research</i> , 1998, 21, 1527-1535.	2.6	30
178	Iron freeze-in temperatures measured by SOHO/CELIAS/CTOF. <i>Journal of Geophysical Research</i> , 1998, 103, 17215-17222.	3.3	30
179	Tailward flow of energetic neutral atoms observed at Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
180	A neutral gas mass spectrometer to measure the chemical composition of the stratosphere. <i>Advances in Space Research</i> , 2009, 44, 870-878.	2.6	30

#	ARTICLE	IF	CITATIONS
181	Scattering function for energetic neutral hydrogen atoms off the lunar surface. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	30
182	THE INTERSTELLAR NEUTRAL He HAZE IN THE HELIOSPHERE: WHAT CAN WE LEARN?. Astrophysical Journal, Supplement Series, 2015, 220, 29.	7.7	30
183	Solar wind sputtering of wollastonite as a lunar analogue material – Comparisons between experiments and simulations. Icarus, 2018, 314, 98-105.	2.5	30
184	First direct observation of sputtered lunar oxygen. Journal of Geophysical Research: Space Physics, 2014, 119, 709-722.	2.4	29
185	HIGH-TIME RESOLUTION IN SITU INVESTIGATION OF MAJOR COMETARY VOLATILES AROUND 67P/C&#246;G AT 3.1&#221;2.3 au MEASURED WITH ROSINA-RTOF. Astrophysical Journal, 2016, 819, 126.	4.5	29
186	The heterogeneous coma of comet 67P/Churyumov-Gerasimenko as seen by ROSINA: H<sub>2</sub>O, CO<sub>2</sub>, and CO from September 2014 to February 2016. Astronomy and Astrophysics, 2017, 600, A77.	5.1	29
187	Experimenting with Mixtures of Water Ice and Dust as Analogues for Icy Planetary Material. Space Science Reviews, 2019, 215, 1.	8.1	29
188	Mass spectrograph for imaging low-energy neutral atoms. Optical Engineering, 1994, 33, 362.	1.0	28
189	Auroral Plasma Acceleration Above Martian Magnetic Anomalies. Space Science Reviews, 2007, 126, 333-354.	8.1	28
190	Constraints on the exosphere of CoRoT-7b. Astronomy and Astrophysics, 2011, 525, A24.	5.1	28
191	IBEX-Lo observations of energetic neutral hydrogen atoms originating from the lunar surface. Planetary and Space Science, 2012, 60, 297-303.	1.7	28
192	LOCAL INTERSTELLAR HYDROGEN'S DISAPPEARANCE AT 1 AU: FOUR YEARS OF<i>IBEX</i>IN THE RISING SOLAR CYCLE. Astrophysical Journal, 2013, 767, 130.	4.5	28
193	Ion chemistry in the coma of comet 67P near perihelion. Monthly Notices of the Royal Astronomical Society, 2016, 462, S67-S77.	4.4	28
194	Evidence of direct detection of interstellar deuterium in the local interstellar medium by IBEX. Astronomy and Astrophysics, 2013, 557, A125.	5.1	28
195	Elemental composition of the January 6, 1997, CME. Geophysical Research Letters, 1998, 25, 2557-2560.	4.0	27
196	Calibration facility for solar wind plasma instrumentation. Review of Scientific Instruments, 2001, 72, 1354.	1.3	27
197	An unexplained 10&#221;40&#176; shift in the location of some diverse neutral atom data at 1 AU. Advances in Space Research, 2004, 34, 166-171.	2.6	27
198	First ENA observations at Mars: Solar-wind ENAs on the nightside. Icarus, 2006, 182, 439-447.	2.5	27

#	ARTICLE	IF	CITATIONS
199	On the impact of multiply charged heavy solar wind ions on the surface of Mercury, the Moon and Ceres. Planetary and Space Science, 2008, 56, 1506-1516.	1.7	27
200	Negative helium generation upon surface scattering: Application in space science. Journal of Applied Physics, 2008, 103, .	2.5	27
201	Chandrayaan-1 observations of backscattered solar wind protons from the lunar regolith: Dependence on the solar wind speed. Journal of Geophysical Research E: Planets, 2014, 119, 968-975.	3.6	27
202	Evidence for distributed gas sources of hydrogen halides in the coma of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S695-S711.	4.4	27
203	Scattering of atoms and molecules off a magnesium oxide surface. Nuclear Instruments & Methods in Physics Research B, 2002, 192, 370-380.	1.4	26
204	IBEX Backgrounds and Signal-to-Noise Ratio. Space Science Reviews, 2009, 146, 173-206.	8.1	26
205	The Hera Saturn entry probe mission. Planetary and Space Science, 2016, 130, 80-103.	1.7	26
206	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 601, A123.	5.1	26
207	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. Planetary and Space Science, 2018, 155, 73-90.	1.7	26
208	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. Space Science Reviews, 2021, 217, 11.	8.1	26
209	Do the intramolecular C-H stretching vibrational modes in ET mediate electron-pairing in $\text{I}^{\text{II}}(\text{ET})_2\text{X}$ superconductors?. Physica C: Superconductivity and Its Applications, 1993, 204, 399-405.	1.2	25
210	Fast microchannel plate detector for particles. Review of Scientific Instruments, 1996, 67, 1790-1793.	1.3	25
211	The Fe/O elemental abundance ratio in the solar wind as observed with SOHO CELIAS CTOF. Journal of Geophysical Research, 1999, 104, 24769-24780.	3.3	25
212	Mass spectrometric analysis in planetary science: Investigation of the surface and the atmosphere. Solar System Research, 2012, 46, 408-422.	0.7	25
213	Prototype of the gas chromatograph-mass spectrometer to investigate volatile species in the lunar soil for the Luna-Resurs mission. Planetary and Space Science, 2015, 111, 126-133.	1.7	25
214	Towards matrix-free femtosecond laser desorption mass spectrometry for <i>in situ</i> space research. Rapid Communications in Mass Spectrometry, 2016, 30, 1031-1036.	1.5	25
215	Model-free Maps of Interstellar Neutral Hydrogen Measured with IBEX between 2009 and 2018. Astrophysical Journal, 2019, 871, 52.	4.5	25
216	Development of an LENA instrument for planetary missions by numerical simulations. Planetary and Space Science, 2007, 55, 1518-1529.	1.7	24

#	ARTICLE	IF	CITATIONS
217	Energetic Hydrogen and Oxygen Atoms Observed on the Nightside of Mars. Space Science Reviews, 2007, 126, 267-297.	8.1	24
218	ORIGIN: a novel and compact Laser Desorption / Ionization Mass Spectrometry system for sensitive in situ detection of amino acids on extraterrestrial surfaces. Scientific Reports, 2020, 10, 9641.	3.3	24
219	Molecular analysis by ionization of laser-desorbed neutral species. Applied Optics, 1993, 32, 857.	2.1	23
220	The ion-optical prototype of the low energy neutral atom sensor of the Interstellar Boundary Explorer Mission (IBEX). Review of Scientific Instruments, 2007, 78, 124502.	1.3	23
221	In Situ Observations of Solar Wind Stream Interface Evolution. Solar Physics, 2009, 259, 323-344.	2.5	23
222	IMAGING THE HELIOSPHERE USING NEUTRAL ATOMS FROM SOLAR WIND ENERGY DOWN TO 15 eV. Astrophysical Journal, 2014, 796, 9.	4.5	23
223	Towards Structural Analysis of Polymeric Contaminants in Electrodeposited Cu films. Electrochimica Acta, 2016, 199, 394-402.	5.2	23
224	0.2 to 10 keV electrons interacting with water ice: Radiolysis, sputtering, and sublimation. Planetary and Space Science, 2018, 155, 91-98.	1.7	23
225	$^{16}\text{O}/^{18}\text{O}$ ratio in water in the coma of comet 67P/Churyumov-Gerasimenko measured with the Rosetta/ROSINA double-focusing mass spectrometer. Astronomy and Astrophysics, 2019, 630, A29.	5.1	23
226	Cluster emission under ion bombardment of metallic targets. Applied Physics A: Solids and Surfaces, 1991, 52, 213-217.	1.4	22
227	Characterization of fullerenes by laser-based mass spectrometry. Vacuum, 1992, 43, 381-385.	3.5	22
228	A cometary neutral gas simulator for gas dynamic sensor and mass spectrometer calibration. Journal of Geophysical Research, 2004, 109, .	3.3	22
229	Energetic Neutral Atoms (ENA) at Mars: Properties of the hydrogen atoms produced upstream of the martian bow shock and implications for ENA sounding technique around non-magnetized planets. Icarus, 2006, 182, 448-463.	2.5	22
230	Conversion surfaces for neutral particle imaging detectors. Advances in Space Research, 2006, 38, 664-671.	2.6	22
231	The Venusian induced magnetosphere: A case study of plasma and magnetic field measurements on the Venus Express mission. Planetary and Space Science, 2008, 56, 796-801.	1.7	22
232	Asteroid exosphere: A simulation for the ROSETTA flyby targets (2867) Steins and (21) Lutetia. Icarus, 2008, 195, 674-685.	2.5	22
233	Backscattered energetic neutral atoms from the Moon in the Earth's plasma sheet observed by Chandrayaan-1/Sub-keV Atom Reflecting Analyzer instrument. Journal of Geophysical Research: Space Physics, 2014, 119, 3573-3584.	2.4	22
234	The middle atmospheric circulation of a tidally locked Earth-like planet and the role of the sea surface temperature. Progress in Earth and Planetary Science, 2016, 3, .	3.0	22

#	ARTICLE	IF	CITATIONS
235	Sensitivity and fragmentation calibration of the time-of-flight mass spectrometer RTOF on board ESA's Rosetta mission. Planetary and Space Science, 2017, 135, 64-73.	1.7	22
236	Dynamic Potential Sputtering of Lunar Analog Material by Solar Wind Ions. Astrophysical Journal, 2020, 891, 100.	4.5	22
237	Scattering of atoms and molecules off a barium zirconate surface. Nuclear Instruments & Methods in Physics Research B, 2001, 173, 503-515.	1.4	21
238	Production of a 10 eV–1000 eV neutral particle beam using surface neutralization. Measurement Science and Technology, 2005, 16, 2511-2516.	2.6	21
239	Solar wind plasma protrusion into the martian magnetosphere: ASPERA-3 observations. Icarus, 2006, 182, 343-349.	2.5	21
240	IMF Direction Derived from Cycloid-Like Ion Distributions Observed by Mars Express. Space Science Reviews, 2007, 126, 239-266.	8.1	21
241	High depth-resolution laser ablation chemical analysis of additive-assisted Cu electroplating for microchip architectures. Journal of Analytical Atomic Spectrometry, 2015, 30, 2371-2374.	3.0	21
242	Mass spectrometric analysis of rubber vulcanizates by laser desorption/laser ionization. Analytical Chemistry, 1992, 64, 2797-2803.	6.5	20
243	Impedance-matching anode for fast timing signals. Review of Scientific Instruments, 1994, 65, 871-876.	1.3	20
244	Tailward flow of energetic neutral atoms observed at Venus. Journal of Geophysical Research, 2008, 113, .	3.3	20
245	Optimization of mass spectrometers using the adaptive particle swarm algorithm. Journal of Mass Spectrometry, 2011, 46, 1143-1151.	1.6	20
246	Space weathering on the Moon: Farside-nearside solar wind precipitation asymmetry. Planetary and Space Science, 2019, 166, 9-22.	1.7	20
247	Electron-stimulated desorption of lithium from LiF and the influence of metal islands on the surface. Surface Science, 1991, 241, 6-10.	1.9	19
248	Determination of the $^{36}\text{Ar}/^{38}\text{Ar}$ isotopic abundance ratio of the solar wind using SOHO/CELIAS/MTOF. Geochimica Et Cosmochimica Acta, 2001, 65, 4589-4596.	3.9	19
249	First observation of energetic neutral atoms in the Venus environment. Planetary and Space Science, 2008, 56, 807-811.	1.7	19
250	Impact of Radiogenic Heating on the Formation Conditions of Comet 67P/Churyumov-Gerasimenko. Astrophysical Journal Letters, 2017, 839, L4.	8.3	19
251	Improved detection sensitivity for heavy trace elements using a miniature laser ablation ionisation mass spectrometer. Journal of Analytical Atomic Spectrometry, 2017, 32, 2182-2188.	3.0	19
252	Mass spectrometry of planetary exospheres at high relative velocity: direct comparison of open- and closed-source measurements. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 1-8.	1.6	19

#	ARTICLE	IF	CITATIONS
253	Depth Profiling and Cross-Sectional Laser Ablation Ionization Mass Spectrometry Studies of Through-Silicon-Vias. Analytical Chemistry, 2018, 90, 5179-5186.	6.5	19
254	Detectability of biosignatures in a low-biomass simulation of martian sediments. Scientific Reports, 2019, 9, 9706.	3.3	19
255	Particles and Photons as Drivers for Particle Release from the Surfaces of the Moon and Mercury. Space Science Reviews, 2022, 218, 1.	8.1	19
256	Interstellar Probe: Humanity's exploration of the Galaxy Begins. Acta Astronautica, 2022, 199, 364-373.	3.2	19
257	Particle populations in Mercury's magnetosphere. Planetary and Space Science, 2001, 49, 1643-1653.	1.7	18
258	ENA detection in the dayside of Mars: ASPERA-3 NPD statistical study. Planetary and Space Science, 2008, 56, 840-845.	1.7	18
259	Energetic Neutral Atoms from the Heliosheath. Astrophysical Journal, 2008, 683, 248-254.	4.5	18
260	THE SOLAR WIND AS A POSSIBLE SOURCE OF FAST TEMPORAL VARIATIONS OF THE HELIOSPHERIC RIBBON. Astrophysical Journal, 2013, 776, 109.	4.5	18
261	Proton entry into the near-E lunar plasma wake for magnetic field aligned flow. Geophysical Research Letters, 2013, 40, 2913-2917.	4.0	18
262	Laser Ablation/Ionisation Mass Spectrometry: Sensitive and Quantitative Chemical Depth Profiling of Solid Materials. Chimia, 2016, 70, 268.	0.6	18
263	Mineralogical determination <i>in situ</i> of a highly heterogeneous material using a miniaturized laser ablation mass spectrometer with high spatial resolution. International Journal of Astrobiology, 2016, 15, 133-146.	1.6	18
264	Radiation Pressure from Interstellar Hydrogen Observed by IBEX through Solar Cycle 24. Astrophysical Journal, 2019, 887, 217.	4.5	18
265	Carbon-13-carbon-13 double bond isotope effect for Tc and consequences regarding the superconducting pairing mechanism in $\kappa$ -(ET) <sub>2</sub> X superconductors. Inorganic Chemistry, 1992, 31, 3346-3348.	4.0	17
266	Scattering of small molecules from a diamond surface. Nuclear Instruments & Methods in Physics Research B, 1999, 157, 208-213.	1.4	17
267	Model for the mass fractionation in the January 6, 1997, coronal mass ejection. Journal of Geophysical Research, 2000, 105, 27239-27249.	3.3	17
268	Fast microchannel plate detector with an impedance matched anode in suspended substrate technology. Review of Scientific Instruments, 2001, 72, 1634.	1.3	17
269	Calcium Abundance in the Solar Wind. Astrophysical Journal, 2003, 583, 489-495.	4.5	17
270	Solar-Wind Bulk Velocity Throughout the Inner Heliosphere from Multi-Spacecraft Measurements. Solar Physics, 2010, 264, 377-382.	2.5	17

#	ARTICLE	IF	CITATIONS
271	An optimised compact electron impact ion storage source for a time-of-flight mass spectrometer. International Journal of Mass Spectrometry, 2010, 294, 33-39.	1.5	17
272	Assessment of detectability of neutral interstellar deuterium by IBEX observations. Astronomy and Astrophysics, 2013, 556, A39.	5.1	17
273	Sputtering of water ice films: A re-assessment with singly and doubly charged oxygen and argon ions, molecular oxygen, and electrons. Icarus, 2017, 291, 36-45.	2.5	17
274	Mass spectrometric analysis of the Mg plasma produced by double-pulse femtosecond laser irradiation. Journal of Analytical Atomic Spectrometry, 2018, 33, 1292-1303.	3.0	17
275	Reviewâ€”Laser Ablation Ionization Mass Spectrometry (LIMS) for Analysis of Electrodeposited Cu Interconnects. Journal of the Electrochemical Society, 2019, 166, D3190-D3199.	2.9	17
276	Mars Ion and Neutral Particle Analyzer (MINPA) for Chinese Mars Exploration Mission (Tianwen-1): Design and ground calibration. Earth and Planetary Physics, 2020, 4, 1-12.	1.1	17
277	Magnesium isotopic composition as observed with the CELIAS/MTOF experiment on the SOHO spacecraft. Journal of Geophysical Research, 1998, 103, 26805-26812.	3.3	16
278	Isotopic Composition of Solar Wind Calcium: First in Situ Measurementby CELIAS/MTOF on board [ITAL]SOHO[/ITAL]. Astrophysical Journal, 1998, 498, L75-L78.	4.5	16
279	Negative ion production by surface ionization at aluminum-nitride surfaces. Journal of Applied Physics, 2000, 87, 2587-2592.	2.5	16
280	Origin of the May 1998 suprathermal particles: Solar and Heliospheric Observatory/Charge, Element, and Isotope Analysis System/(Highly) Suprathermal Time of Flight results. Journal of Geophysical Research, 2002, 107, SSH 6-1.	3.3	16
281	Titanâ€™s atomic hydrogen corona. Icarus, 2010, 210, 424-435.	2.5	16
282	Escape of O<sup>+</sup> through the distant tail plasma sheet. Geophysical Research Letters, 2010, 37, .	4.0	16
283	In situ mass spectrometry during the Lutetia flyby. Planetary and Space Science, 2012, 66, 173-178.	1.7	16
284	Solar wind reflection from the lunar surface: The view from far and near. Planetary and Space Science, 2013, 84, 1-4.	1.7	16
285	Detection efficiency of microchannel plates for e <sup>+</sup> and $\bar{\nu}_e$ in the momentum range from 17.5 to 345 MeV/c. Review of Scientific Instruments, 2015, 86, 083310.	1.3	16
286	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. Space Science Reviews, 2015, 192, 27-89.	8.1	16
287	Combining Anisotropic Etching and PDMS Casting for Three-Dimensional Analysis of Laser Ablation Processes. Analytical Chemistry, 2018, 90, 2692-2700.	6.5	16
288	Velocity distribution function of Na released by photons from planetary surfaces. Planetary and Space Science, 2018, 159, 97-104.	1.7	16

#	ARTICLE	IF	CITATIONS
289	The Deep Composition of Uranus and Neptune from In Situ Exploration and Thermochemical Modeling. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	16
290	UV post-ionization laser ablation ionization mass spectrometry for improved nm-depth profiling resolution on Cr/Ni reference standard. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8803.	1.5	16
291	Current Progress in Femtosecond Laser Ablation/Ionisation Time-of-Flight Mass Spectrometry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2562.	2.5	16
292	Cr atoms sputtered from different matrices. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1986, 18, 452-457.	1.4	15
293	Energy thresholds and delayed emission for electron-stimulated desorption of neutral ground- and excited-state Li atoms from lithium fluoride. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1990, 48, 593-596.	1.4	15
294	Evidence for Iroshnikov-Kraichnan-Type Turbulence in the Solar Wind Upstream of Interplanetary Traveling Shocks. <i>Astrophysical Journal</i> , 2008, 675, L45-L48.	4.5	15
295	On Applicability of a Miniaturised Laser Ablation Time of Flight Mass Spectrometer for Trace Elements Measurements. <i>International Journal of Spectroscopy</i> , 2012, 2012, 1-14.	1.6	15
296	Directionality and variability of energetic neutral hydrogen fluxes observed by Mars Express. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7635-7642.	2.4	15
297	New fully kinetic model for the study of electric potential, plasma, and dust above lunar landscapes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1589-1606.	2.4	15
298	Imaging the South Pole-Aitken basin in backscattered neutral hydrogen atoms. <i>Planetary and Space Science</i> , 2015, 115, 57-63.	1.7	15
299	The LMS-GT instrument – a new perspective for quantification with the LIMS-TOF measurement technique. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 2061-2073.	3.0	15
300	Mercury's subsolar sodium exosphere: an ab initio calculation to interpret MASCS/UVVS observations from MESSENGER. <i>Annales Geophysicae</i> , 2019, 37, 455-470.	1.6	15
301	The Detection of Elemental Signatures of Microbes in Martian Mudstone Analogs Using High Spatial Resolution Laser Ablation Ionization Mass Spectrometry. <i>Astrobiology</i> , 2020, 20, 1224-1235.	3.0	15
302	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. <i>Planetary and Space Science</i> , 2020, 193, 104960.	1.7	15
303	Experimental Insights Into Space Weathering of Phobos: Laboratory Investigation of Sputtering by Atomic and Molecular Planetary Ions. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006583.	3.6	15
304	Electron stimulated desorption thresholds for excited atoms desorbed from alkali-halides. <i>Radiation Effects and Defects in Solids</i> , 1989, 109, 203-212.	1.2	14
305	Mass selective blanking in a compact multiple reflection time-of-flight mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 1999, 188, 189-197.	1.5	14
306	Determination of the abundance of aluminum in the solar wind with SOHO/CELIAS/MTOF. <i>Journal of Geophysical Research</i> , 2000, 105, 12659-12666.	3.3	14

#	ARTICLE	IF	CITATIONS
307	Triple Fâ€™a comet nucleus sample return mission. <i>Experimental Astronomy</i> , 2009, 23, 809-847.	3.7	14
308	Investigation of the density and temperature of electrons in a compact 2.45 GHz electron cyclotron resonance ion source plasma by x-ray measurements. <i>Plasma Sources Science and Technology</i> , 2005, 14, 692-699.	3.1	13
309	Minor Ion Abundances in the Slow Solar Wind. <i>Astrophysical Journal</i> , 2008, 681, 1703-1707.	4.5	13
310	Is hydrodynamic escape from Titan possible?. <i>Planetary and Space Science</i> , 2012, 61, 79-84.	1.7	13
311	Signal Processing for the Measurement of the Deuterium/Hydrogen Ratio in the Local Interstellar Medium. <i>Entropy</i> , 2014, 16, 1134-1168.	2.2	13
312	Experimental investigation of the radiation shielding efficiency of a MCP detector in the radiation environment near Jupiterâ€™s moon Europa. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 383, 21-37.	1.4	13
313	Characteristics of proton velocity distribution functions in the near-lunar wake from Chandrayaan-1/SWIM observations. <i>Icarus</i> , 2016, 271, 120-130.	2.5	13
314	Towards femtosecond laser ablation ionization mass spectrometric approaches for chemical depth-profiling analysis of lead-free Sn solder bumps with minimized side-wall contributions. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 283-293.	3.0	13
315	First experimental data of sulphur ions sputtering water ice. <i>Icarus</i> , 2018, 312, 1-6.	2.5	13
316	A comparison between the two lobes of comet 67P/Churyumovâ€™Gerasimenko based on D/H ratios in H <sub>2</sub> O measured with the Rosetta/ROSINA DFMS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4734-4740.	4.4	13
317	Heavy Ion Composition of Mercury's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2603-2612.	2.4	13
318	Two years with comet 67P/Churyumov-Gerasimenko: H <sub>2</sub> O, CO <sub>2</sub> , and CO as seen by the ROSINA/TOF instrument of Rosetta. <i>Astronomy and Astrophysics</i> , 2019, 630, A33.	5.1	13
319	Modeling of Possible Plume Mechanisms on Europa. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029690.	2.4	13
320	3D Monte-Carlo simulation of Ganymedeâ€™s water exosphere. <i>Icarus</i> , 2022, 375, 114810.	2.5	13
321	Analytical model for the sputtering of rough surfaces. <i>Surfaces and Interfaces</i> , 2022, 30, 101924.	3.0	13
322	The emission of secondary clusters and its relevance for analytical Laser-SNMS. <i>Fresenius' Journal of Analytical Chemistry</i> , 1991, 341, 12-16.	1.5	12
323	Dust in the wind: The dust geometric cross section at 1 AU based on neutral solar wind observations. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	12
324	Calibration of charge state conversion surfaces for neutral particle detectors. <i>Journal of Applied Physics</i> , 2008, 104, 034503.	2.5	12

#	ARTICLE	IF	CITATIONS
325	Effect of long duration UV irradiation on diamondlike carbon surfaces in the presence of a hydrocarbon gaseous atmosphere. Journal of Applied Physics, 2010, 108, .	2.5	12
326	Interstellar Gas Flow Vector and Temperature Determination over 5 Years of IBEX Observations. Journal of Physics: Conference Series, 2015, 577, 012019.	0.4	12
327	Scattering characteristics and imaging of energetic neutral atoms from the Moon in the terrestrial magnetosheath. Journal of Geophysical Research: Space Physics, 2016, 121, 432-445.	2.4	12
328	Three-Dimensional Modeling of Callisto's Surface Sputtered Exosphere Environment. Journal of Geophysical Research: Space Physics, 2019, 124, 7157-7169.	2.4	12
329	Description of the Mass Spectrometer for the Jupiter Icy Moons Explorer Mission. , 2021, , .		12
330	Regions of interest on Ganymede's and Callisto's surfaces as potential targets for ESA's JUICE mission. Planetary and Space Science, 2021, 208, 105324.	1.7	12
331	Solar wind ion trends and signatures: STEREO PLASTIC observations approaching solar minimum. Annales Geophysicae, 2009, 27, 3909-3922.	1.6	12
332	The Case for a New Frontiers-Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. Planetary Science Journal, 2022, 3, 58.	3.6	12
333	Isotopes in the solar wind: New results from ACE, SOHO, and WIND. , 1999, , .		11
334	Metallic work function measurement in the range 2–3.3 eV using a blue light-emitting diode source. Review of Scientific Instruments, 2000, 71, 499-503.	1.3	11
335	Coronal and solar wind elemental abundances. AIP Conference Proceedings, 2001, , .	0.4	11
336	Scattering of slow ions from insulator surfaces at the example of molecular oxygen from LiF(100). Nuclear Instruments & Methods in Physics Research B, 2003, 212, 291-296.	1.4	11
337	Nickel Isotopic Composition and Nickel/Iron Ratio in the Solar Wind: Results from SOHO/CELIAS/MTOF. Space Science Reviews, 2007, 130, 317-321.	8.1	11
338	Surface charging of thick porous water ice layers relevant for ion sputtering experiments. Planetary and Space Science, 2016, 126, 63-71.	1.7	11
339	A New Method and Mass-Spectrometric Instrument for Extraterrestrial Microbial Life Detection Using the Elemental Composition Analyses of Martian Regolith and Permafrost/Ice. Astrobiology, 2017, 17, 448-458.	3.0	11
340	Shielding an MCP Detector for a Space-Borne Mass Spectrometer Against the Harsh Radiation Environment in Jupiter's Magnetosphere. IEEE Transactions on Nuclear Science, 2017, 64, 605-613.	2.0	11
341	Noble Gas Abundance Ratios Indicate the Agglomeration of 67P/Churyumov-Gerasimenko from Warmed-up Ice. Astrophysical Journal Letters, 2018, 865, L11.	8.3	11
342	Synthesis of Molecular Oxygen via Irradiation of Ice Grains in the Protosolar Nebula. Astrophysical Journal, 2018, 858, 66.	4.5	11

#	ARTICLE	IF	CITATIONS
343	High Energy Electron Radiation Exposure Facility at PSI. Journal of Applied Mathematics and Physics, 2014, 02, 910-917.	0.4	11
344	Possible Origin of the Secondary Stream of Neutral Fluxes at 1 AU. AIP Conference Proceedings, 2004, , .	0.4	10
345	Low-energy energetic neutral atom imaging of Io plasma and neutral tori. Planetary and Space Science, 2015, 108, 41-53.	1.7	10
346	On the in-situ detectability of Europa's water vapour plumes from a flyby mission. Icarus, 2017, 289, 270-280.	2.5	10
347	Isotope abundance ratio measurements using femtosecond laser ablation ionization mass spectrometry. Journal of Mass Spectrometry, 2020, 55, e4660.	1.6	10
348	High resolution isochronous mass spectrometer for space plasma applications. International Journal of Mass Spectrometry and Ion Processes, 1995, 148, 77-96.	1.8	9
349	Development and calibration of major components for the STEREO/PLASTIC (plasma and suprathermal) Tj ETQq1 1.0,784314,rgBT /Over	2.6	9
350	The interstellar boundary explorer (IBEX): Update at the end of phase B. AIP Conference Proceedings, 2006, , .	0.4	9
351	A MEASUREMENT OF THE ADIABATIC COOLING INDEX FOR INTERSTELLAR HELIUM PICKUP IONS IN THE INNER HELIOSPHERE. Astrophysical Journal, 2009, 703, 325-329.	4.5	9
352	He Pickup Ions in the Inner Heliosphereâ€”Diagnostics of the Local Interstellar Gas and of Interplanetary Conditions. AIP Conference Proceedings, 2010, , .	0.4	9
353	Venusian bow shock as seen by the ASPERAâ€”4 ion instrument on Venus Express. Journal of Geophysical Research, 2010, 115, .	3.3	9
354	Negative ion formation during scattering of fast ions from diamond-like carbon surfaces. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 915-918.	1.4	9
355	Influence of Martian crustal magnetic anomalies on the emission of energetic neutral hydrogen atoms. Journal of Geophysical Research: Space Physics, 2014, 119, 8600-8609.	2.4	9
356	Transport of solar wind plasma onto the lunar nightside surface. Geophysical Research Letters, 2016, 43, 10,586.	4.0	9
357	Insights into Laser Ablation Processes of Heterogeneous Samples: Toward Analysis of Through-Silicon-Vias. Analytical Chemistry, 2018, 90, 6666-6674.	6.5	9
358	Novel 2D binning approach for advanced LIMS depth profiling analysis. Journal of Analytical Atomic Spectrometry, 2019, 34, 1564-1570.	3.0	9
359	A method for improvement of mass resolution and isotope accuracy for laser ablation time-of-flight mass spectrometers. Journal of Chemometrics, 2019, 33, e3081.	1.3	9
360	Three-Dimensional Composition Analysis of SnAg Solder Bumps Using Ultraviolet Femtosecond Laser Ablation Ionization Mass Spectrometry. Analytical Chemistry, 2020, 92, 1355-1362.	6.5	9

#	ARTICLE	IF	CITATIONS
361	Chemical analysis of a lunar meteorite by laser ablation mass spectrometry. Planetary and Space Science, 2020, 182, 104816.	1.7	9
362	Solar wind Helium ion interaction with Mg and Fe rich pyroxene as Mercury surface analogue. Nuclear Instruments & Methods in Physics Research B, 2020, 480, 10-15.	1.4	9
363	The chemical composition and homogeneity of the Allende matrix. Planetary and Space Science, 2021, 204, 105251.	1.7	9
364	Isotope effect in $^{13}\text{C}$ -substituted (central $\text{C}\rightarrow\text{C}$ ) $\text{I}^{\text{a}}$ -phase organic superconductors. Synthetic Metals, 1993, 56, 2314-2322.	3.9	8
365	Imaging ion outflow in the high-latitude magnetosphere using low-energy neutral atoms. Optical Engineering, 1993, 32, 3153.	1.0	8
366	Interstellar heliospheric probe/heliospheric boundary explorer mission – a mission to the outermost boundaries of the solar system. Experimental Astronomy, 2009, 24, 9-46.	3.7	8
367	HELIOSPHERIC ENERGETIC NEUTRAL HYDROGEN MEASURED WITH ASPERA-3 AND ASPERA-4. Astrophysical Journal, 2013, 775, 24.	4.5	8
368	Excess of l-alanine in amino acids synthesized in a plasma torch generated by a hypervelocity meteorite impact reproduced in the laboratory. Planetary and Space Science, 2016, 131, 70-78.	1.7	8
369	An Impacting Descent Probe for Europa and the Other Galilean Moons of Jupiter. Earth, Moon and Planets, 2017, 120, 113-146.	0.6	8
370	The upper atmosphere of Venus: Model predictions for mass spectrometry measurements. Planetary and Space Science, 2019, 170, 29-41.	1.7	8
371	Comparison of neutral outgassing of comet 67P/Churyumov-Gerasimenko inbound and outbound beyond 3 AU from ROSINA/DFMS. Astronomy and Astrophysics, 2019, 630, A30.	5.1	8
372	Future Missions Related to the Determination of the Elemental and Isotopic Composition of Earth, Moon and the Terrestrial Planets. Space Science Reviews, 2020, 216, 1.	8.1	8
373	Performance of a Low Energy Ion Source with Carbon Nanotube Electron Emitters under the Influence of Various Operating Gases. Nanomaterials, 2020, 10, 354.	4.1	8
374	Creation of Lunar and Hermean analogue mineral powder samples for solar wind irradiation experiments and mid-infrared spectra analysis. Icarus, 2021, 365, 114492.	2.5	8
375	Laser Ablation Ionization Mass Spectrometry: A Space Prototype System for In Situ Sulphur Isotope Fractionation Analysis on Planetary Surfaces. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	8
376	The ORIGIN Space Instrument for Detecting Biosignatures and Habitability Indicators on a Venus Life Finder Mission. Aerospace, 2022, 9, 312.	2.2	8
377	Space weather observations using the SOHO CELIAS complement of instruments. Journal of Geophysical Research, 2001, 106, 29963-29968.	3.3	7
378	Solar wind iron isotopic abundances: Results from SOHO/CELIAS/MTOF. AIP Conference Proceedings, 2001, . .	0.4	7

#	ARTICLE	IF	CITATIONS
379	NICE: an instrument for direct mass spectrometric measurement of interstellar neutral gas. Measurement Science and Technology, 2005, 16, 1667-1676.	2.6	7
380	Energetic neutral atom imaging mass spectroscopy of the Moon and Mercury environments. Advances in Space Research, 2006, 37, 38-44.	2.6	7
381	Laser Mass Spectrometry in Planetary Science. , 2009, , .		7
382	Statistical analysis of the observations of the MEX/ASPERA-3 NPI in the shadow. Planetary and Space Science, 2009, 57, 1000-1007.	1.7	7
383	Solar wind scattering from the surface of Mercury: Lessons from the Moon. Icarus, 2017, 296, 39-48.	2.5	7
384	Flight electronics of GC-mass spectrometer for investigation of volatiles in the lunar regolith. , 2018, , .		7
385	Energy Spectral Properties of Hydrogen Energetic Neutral Atoms Emitted From the Dayside Atmosphere of Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 4104-4113.	2.4	7
386	Determination of the microscopic mineralogy of inclusion in an amygdaloidal pillow basalt by fs-LIMS. Journal of Analytical Atomic Spectrometry, 2021, 36, 80-91.	3.0	7
387	On Topological Analysis of fs-LIMS Data. Implications for in Situ Planetary Mass Spectrometry. Frontiers in Artificial Intelligence, 2021, 4, 668163.	3.4	7
388	Chemical identification of microfossils from the 1.88â€‰Ga Gunflint chert: Towards empirical biosignatures using laser ablation ionization mass spectrometer. Journal of Chemometrics, 2021, 35, e3370.	1.3	7
389	Synthesis, separation, characterization, fragmentation, and aggregation of giant fullerenes. International Journal of Mass Spectrometry and Ion Processes, 1994, 138, 149-157.	1.8	6
390	Composition of magnetic cloud plasmas during 1997 and 1998. AIP Conference Proceedings, 2001, , .	0.4	6
391	Secondary electron emission of chemical-vapor-deposited diamond by impact of slow H+, D+, H2+, C+, O+, and O2+ ions. Journal of Applied Physics, 2005, 98, 034906.	2.5	6
392	Sulfur Abundance in the Slow Solar Wind. Astronomical Journal, 2007, 134, 2451-2454.	4.7	6
393	Scattering of light molecules from thin Al2O3 films. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2571-2574.	1.4	6
394	Global plasma simulation of charge state distribution inside a 2.45â€‰GHz ECR plasma with experimental verification. Plasma Sources Science and Technology, 2010, 19, 045024.	3.1	6
395	Erosion Processes Affecting Interplanetary Dust Grains. Astrophysics and Space Science Library, 2012, , 161-178.	2.7	6
396	The Genesis Solar Wind Concentrator: Flight and Post-Flight Conditions and Modeling of Instrumental Fractionation. Space Science Reviews, 2013, 175, 93-124.	8.1	6

#	ARTICLE	IF	CITATIONS
397	The free escape continuum of diffuse ions upstream of the Earth's quasi-parallel bow shock. Journal of Geophysical Research: Space Physics, 2013, 118, 4425-4434.	2.4	6
398	IMPACT OF PLANETARY GRAVITATION ON HIGH-PRECISION NEUTRAL ATOM MEASUREMENTS. Astrophysical Journal, Supplement Series, 2015, 220, 35.	7.7	6
399	Emission of energetic neutral atoms from water ice under Ganymede surface-like conditions. Icarus, 2016, 269, 91-97.	2.5	6
400	First Observation of Transport of Solar Wind Protons Scattered From Magnetic Anomalies Into the Near Lunar Wake: Observations by SARA/Chandrayaan-1. Geophysical Research Letters, 2018, 45, 8826-8833.	4.0	6
401	Residual Gas Adsorption and Desorption in the Field Emission of Titanium-Coated Carbon Nanotubes. Materials, 2019, 12, 2937.	2.9	6
402	Understanding Interplanetary Coronal Mass Ejection Signatures. Space Sciences Series of ISSI, 2006, , 177-216.	0.0	6
403	IBEX—Interstellar Boundary Explorer. , 2009, , 11-33.		6
404	An Empirical Model of Energetic Neutral Atom Imaging of the Heliosphere and Its Implications for Future Heliospheric Missions at Great Heliocentric Distances. Astrophysical Journal, 2019, 886, 70.	4.5	6
405	The Exosphere as a Boundary: Origin and Evolution of Airless Bodies in the Inner Solar System and Beyond Including Planets with Silicate Atmospheres. Space Science Reviews, 2022, 218, 1.	8.1	6
406	Callisto's Atmosphere and Its Space Environment: Prospects for the Particle Environment Package on Board JUICE. Earth and Space Science, 2022, 9, .	2.6	6
407	Automated, 3- and Sub-Micron Accurate Ablation-Volume Determination by Inverse Molding and X-Ray Computed Tomography. Advanced Science, 2022, 9, e2200136.	11.2	6
408	Influence of SF <sub>6</sub> coverage on the sputtering behaviour of Cr-targets. Nuclear Instruments & Methods in Physics Research B, 1987, 19-20, 92-96.	1.4	5
409	The Central Bond $\langle^{13}\text{C} = \langle^{13}\text{C} \rangle \text{Isotope Effect for Superconductivity in the High-T}_c \text{-(ET)}_2\text{-I}_3 \text{ Phase and its Implications Regarding the Superconducting Pairing Mechanism in TTF-Based Organic Superconductors. Molecular Crystals and Liquid Crystals, 1993, 234, 127-136.}$	0.3	5
410	Imaging ion outflow in the high-latitude magnetosphere using low-energy neutral atoms. , 1993, 2008, 83.		5
411	The Fe/O elemental abundance ratio in the solar wind. , 1999, , .		5
412	Determination of Sulfur Abundance in the Solar Wind. Space Science Reviews, 2007, 130, 329-333.	8.1	5
413	The Mars Environment Analogue Platform long duration balloon flight. Advances in Space Research, 2009, 44, 308-312.	2.6	5
414	Temporal Evolution of the Solar-Wind Electron Core Density at Solar Minimum by Correlating SWEA Measurements from STEREO A and B. Solar Physics, 2010, 266, 369-377.	2.5	5

#	ARTICLE	IF	CITATIONS
415	Investigation of sputtering of thin diamond-like carbon (DLC) target foils by low energy light ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 429-433.	1.6	5
416	Test Facility to Study Surface-Interaction Processes for Particle Detection in Space. Journal of Spacecraft and Rockets, 2013, 50, 402-410.	1.9	5
417	SELMA mission: How do airless bodies interact with space environment? The Moon as an accessible laboratory. Planetary and Space Science, 2018, 156, 23-40.	1.7	5
418	Chemical and Isotopic Composition Measurements on Atmospheric Probes Exploring Uranus and Neptune. Space Science Reviews, 2020, 216, 1.	8.1	5
419	The Case for a Return to Enceladus. , 2021, 53, .		5
420	In Situ exploration of the giant planets. Experimental Astronomy, 2022, 54, 975-1013.	3.7	5
421	Effects in the Inner Heliosphere Caused by Changing Conditions in the Galactic Environment. , 2006, , 209-258.		5
422	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. , 2008, , 437-486.		5
423	The Interstellar Boundary Explorer High Energy (IBEX-Hi) Neutral Atom Imager. , 2009, , 75-103.		5
424	THE SUB-KEV ATOM REFLECTING ANALYZER (SARA) EXPERIMENT ABOARD CHANDRAYAAN-1 MISSION: INSTRUMENT AND OBSERVATIONS. , 0, , 151-161.		5
425	Evolution of Mercury's Earliest Atmosphere. Planetary Science Journal, 2021, 2, 230.	3.6	5
426	Toward Detecting Polycyclic Aromatic Hydrocarbons on Planetary Objects with ORIGIN. Planetary Science Journal, 2022, 3, 43.	3.6	5
427	Spectrometric Characterization of Purified C <sub>60</sub> and C <sub>70</sub> . Materials Research Society Symposia Proceedings, 1990, 206, 679.	0.1	4
428	<title>Mass spectrograph for imaging low-energy neutral atoms</title>. , 1993, 2008, 105.		4
429	6-1¼m pore microchannel plate detectors for the ROSETTA-RTOF experiment. , 2000, , .		4
430	Interstellar Pathfinder â€” A Mission to the Inner Edge of the Interstellar Medium. AIP Conference Proceedings, 2003, , .	0.4	4
431	Scattering of light molecules from Al <sub>2</sub> O <sub>3</sub> surfaces. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 76-80.	1.4	4
432	Identification of the ECR zone in the SWISSCASE ECR ion source. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4788-4793.	1.4	4

#	ARTICLE	IF	CITATIONS
433	Proton Enhancement and Decreased O <sup>6+</sup> •H at the Heliospheric Current Sheet: Implications for the Origin of Slow Solar Wind. AIP Conference Proceedings, 2010, , .	0.4	4
434	Spacecraft outgassing, a largely underestimated phenomenon. , 2011, , .		4
435	A simple 3D plasma instrument with an electrically adjustable geometric factor for space research. Measurement Science and Technology, 2012, 23, 025901.	2.6	4
436	INTERACTION OF SOLAR WIND WITH MOON: AN OVERVIEW ON THE RESULTS FROM THE SARA EXPERIMENT ABOARD CHANDRAYAAN-1. , 2012, , 35-55.		4
437	On the surface characterization of an Al <sub>2</sub> O <sub>3</sub> charge state conversion surface using ion scattering and atomic force microscope measurements. Applied Surface Science, 2012, 258, 7292-7298.	6.1	4
438	ELENA microchannel plate detector: absolute detection efficiency for low energy neutral atoms. Optical Engineering, 2013, 52, 051206.	1.0	4
439	Isochronous Mass Spectrometer for Space Plasma Applications. Geophysical Monograph Series, 0, , 229-235.	0.1	4
440	Dust environment of an airless object: A phase space study with kinetic models. Planetary and Space Science, 2016, 120, 56-69.	1.7	4
441	Investigation of the Surface Composition by Laser Ablation/Ionization Mass Spectrometry. , 2021, , .		4
442	Improved plasma stoichiometry recorded by laser ablation ionization mass spectrometry using a double-pulse femtosecond laser ablation ion source. Rapid Communications in Mass Spectrometry, 2021, 35, e9094.	1.5	4
443	Quantitative elemental analysis with the LMS-CT; a next-generation LIMS-TOF instrument. International Journal of Mass Spectrometry, 2021, 470, 116662.	1.5	4
444	Design, characteristics and scientific tasks of the LASMA-LR laser ionization mass spectrometer onboard Luna-25 and Luna-27 space missions. International Journal of Mass Spectrometry, 2021, 469, 116676.	1.5	4
445	Determination of the Ar/Ca solar wind elemental abundance ratio using SOHO/CELIAS/MTOF. AIP Conference Proceedings, 2001, , .	0.4	4
446	Multiwavelength Ablation/Ionization and Mass Spectrometric Analysis of 1.88 Ga Gunflint Chert. Astrobiology, 2022, 22, 369-386.	3.0	4
447	Optical signal coupling in microchannel plate detectors with a subnanosecond performance. Review of Scientific Instruments, 2001, 72, 3225-3229.	1.3	3
448	Composition of magnetic cloud plasmas during 1997 and 1998. AIP Conference Proceedings, 2003, , .	0.4	3
449	An Interstellar Neutral Atom Detector (INAD). AIP Conference Proceedings, 2003, , .	0.4	3
450	Effect of Coronal Mass Ejection Interactions on the SOHO/CELIAS/MTOF Measurements. Proceedings of the International Astronomical Union, 2004, 2004, 409-413.	0.0	3

#	ARTICLE	IF	CITATIONS
451	Holmström et al. reply. Nature, 2008, 456, E1-E2.	27.8	3
452	A LENA Instrument onboard BepiColombo and Chandrayaan-1. , 2009, , .		3
453	A Residual Source of Energetic Neutral Atoms Across the Sky Obtained by the Neutral Particle Detector on board Venus Express. , 2009, , .		3
454	Characterization of the gaseous spacecraft environment of Rosetta by ROSINA. , 2011, , .		3
455	Io Volcano Observer's (IVO) integrated approach to optimizing system design for radiation challenges. , 2012, , .		3
456	Testing the Radiation Hardness of Thick-Film Resistors for a Time-Of-Flight Mass Spectrometer at Jupiter with 18 MeV Protons. , 2017, , .		3
457	A low energy ion beam facility for mass spectrometer calibration: First results. Review of Scientific Instruments, 2018, 89, 013305.	1.3	3
458	Decisions and Trade-Offs in the Design of a Mass Spectrometer for Jupiter's Icy Moons. , 2020, , .		3
459	Cadmium telluride as a potential conversion surface. Journal of Applied Physics, 2021, 129, 045303.	2.5	3
460	Detecting the elemental and molecular signatures of life: Laser-based mass spectrometry technologies. , 2021, 53, .		3
461	Exploration of Enceladus and Titan: investigating ocean worldsâ€™ evolution and habitability in the Saturn system. Experimental Astronomy, 2022, 54, 877-910.	3.7	3
462	Energetic Hydrogen and Oxygen Atoms Observed on the Nightside of Mars. , 2007, , 267-297.		3
463	Different Processes for Desorption of Ground- and Excited-State Atoms Under Electron Bombardment of Alkali-Halides. Springer Series in Surface Sciences, 1990, , 289-296.	0.3	3
464	Surface ionization with cesiated converters for space applications. Geophysical Monograph Series, 1998, , 289-295.	0.1	3
465	Photodetachment from laser-desorbed Ca <sup>2+</sup> . Chemical Physics, 1993, 176, 185-193.	1.9	2
466	<title>High-latitude ion transport and energetic explorer (HI-LITE): a mission to investigate ion outflow from the high-latitude ionosphere</title>. , 1993, , .		2
467	Sun, solar wind, meteorites and interstellar medium: What are the compositional relations?. AIP Conference Proceedings, 2001, , .	0.4	2
468	Measurement of neutral atoms and ions in Mercury's exosphere. Planetary and Space Science, 2001, 49, 1655-1658.	1.7	2

#	ARTICLE	IF	CITATIONS
469	Energetic neutral atoms from the heliosheath. AIP Conference Proceedings, 2006, , .	0.4	2
470	Field structure and electron life times in the MEFISTO electron cyclotron resonance ion source. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 820-828.	1.4	2
471	Solar wind elemental abundances related to the Sun's open magnetic flux. Astronomy and Astrophysics, 2009, 505, 1237-1244.	5.1	2
472	Diagnostics of corotating interaction regions with the kinetic properties of iron ions as determined with STEREO/PLASTIC. Annales Geophysicae, 2010, 28, 491-497.	1.6	2
473	Studying the Lunarâ€”Solar Wind Interaction with the SARA Experiment aboard the Indian Lunar Mission Chandrayaan-1. AIP Conference Proceedings, 2010, , .	0.4	2
474	Kinetic temperatures of iron ions in the solar wind observed with STEREOâ”•PLASTIC. , 2010, , .		2
475	ELENA MCP detector: absolute detection efficiency for low-energy neutral atoms. Proceedings of SPIE, 2012, , .	0.8	2
476	Self-supporting CVD diamond charge state conversion surfaces for high resolution imaging of low-energy neutral atoms in space plasmas. Applied Surface Science, 2014, 313, 293-303.	6.1	2
477	Mass spectrometric characterization of the Rosetta Spacecraft contamination. Proceedings of SPIE, 2016, , .	0.8	2
478	New suprathermal proton population around the Moon: Observation by SARA on Chandrayaanâ”•1. Geophysical Research Letters, 2017, 44, 4540-4548.	4.0	2
479	EGTâ”•A sensitive timeâ”•ofâ”•flight mass spectrometer for multielement isotope gas analysis. Journal of Mass Spectrometry, 2018, 53, 1036-1045.	1.6	2
480	Characterization of femtosecond laser ablation processes on as-deposited SnAg solder alloy using laser ablation ionization mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 180, 106145.	2.9	2
481	Future Venus missions and flybys: A collection of possible measurements with mass spectrometers and plasma instruments. Advances in Space Research, 2021, 68, 3205-3217.	2.6	2
482	Neutralized Solar Energetic Particles for SEP Forecasting: Feasibility Study of an Innovative Technique for Space Weather Applications. Earth and Planetary Physics, 2022, 6, 0-0.	1.1	2
483	The Hydrogen Exospheric Density Profile Measured with ASPERA-3/NPD. , 2007, , 447-467.		2
484	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. , 2007, , 113-164.		2
485	Rosetta Orbiter Spectrometer for Ion and Neutral Analysis ROSINA. , 2009, , 1-52.		2
486	Processes that Promote and Deplete the Exosphere ofâ”•Mercury. Space Sciences Series of ISSI, 2008, , 251-327.	0.0	2

#	ARTICLE	IF	CITATIONS
487	FULLERENES AND GIANT FULLERENES: SYNTHESIS, SEPARATION, AND MASS SPECTROMETRIC CHARACTERIZATION. , 1993, , 29-44.		2
488	Sample return of primitive matter from the outer Solar System. Experimental Astronomy, 0, , 1.	3.7	2
489	The IBEX-Lo Sensor. , 2009, , 117-147.		2
490	IBEX Backgrounds and Signal-to-Noise Ratio. , 2009, , 173-206.		2
491	Correlation Network Analysis for Amino Acid Identification in Soil Samples With the ORIGIN Space-Prototype Instrument. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	2
492	Effects of Solar Magnetic Activity on the Charge States of Minor Ions of Solar Wind. Astrophysical Journal, 2008, 678, L145-L148.	4.5	1
493	INTERSTELLAR NEUTRAL ATOMS AT 1 AU OBSERVED BY THE IMAGE/LENA IMAGER. Astrophysical Journal, 2009, 698, 1117-1121.	4.5	1
494	SERENA: a Novel Instrument Package on board BepiColombo-MPO to study Neutral and Ionized Particles in the Hermean Environment. , 2009, , .		1
495	The transterminator ion flow at Venus at solar minimum. Planetary and Space Science, 2012, 73, 341-346.	1.7	1
496	Scattering of low-energetic atoms and molecules from a boron-doped CVD diamond surface. Applied Surface Science, 2018, 427, 427-433.	6.1	1
497	Chlorine-bearing species and the $^{37}\text{Cl}/^{35}\text{Cl}$ isotope ratio in the coma of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1020-1032.	4.4	1
498	Auroral Plasma Acceleration above Martian Magnetic Anomalies. , 2007, , 333-354.		1
499	Locations of Atmospheric Photoelectron Energy Peaks Within the Mars Environment. , 2007, , 389-402.		1
500	Mercury's Surface Composition and Character as Measured by Ground-Based Observations. Space Sciences Series of ISSI, 2008, , 217-249.	0.0	1
501	Diagnosing the Neutral Interstellar Gas Flow at 1 AU with IBEX-Lo. , 2009, , 149-172.		1
502	Imaging low-energy (<1 keV) neutral atoms: Ion-optical design. Geophysical Monograph Series, 1998, , 263-268.	0.1	1
503	Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2022, 658, A87.	5.1	1
504	Improved limit of detection of a high-resolution fs-LIMS instrument through mass-selective beam blanking. International Journal of Mass Spectrometry, 2022, 474, 116803.	1.5	1

#	ARTICLE	IF	CITATIONS
505	Plasma-neutral gas interactions in various space environments: Assessment beyond simplified approximations as a Voyage 2050 theme. <i>Experimental Astronomy</i> , 0, , 1.	3.7	1
506	High Mass Resolution fs-LIMS Imaging and Manifold Learning Reveal Insight Into Chemical Diversity of the 1.88ÅGa Gunflint Chert. <i>Frontiers in Space Technologies</i> , 2022, 3, .	1.4	1
507	The influence of superthermal electrons on the derivation of coronal electron temperatures from solar wind motor ion charge states. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 407-414.	0.2	0
508	FIP effect for minor heavy solar wind ions as seen with SOHO/CELIAS/MTOF. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
509	Solar wind sputtering of lunar analogue material. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 202006.	0.4	0
510	New Frontiers-class Uranus Orbiter: Exploring the feasibility of achieving multidisciplinary science with a mid-scale mission. , 2021, 53, .		0
511	Joint Europa Mission (JEM): A Multiscale, Multi-Platform Mission to Characterize Europa's Habitability and Search for Extant Life. , 2021, 53, .		0
512	Determination of Sulfur Abundance in the Solar Wind. <i>Space Sciences Series of ISSI</i> , 2007, , 329-333.	0.0	0
513	IMF Direction Derived from Cycloid-Like Ion Distributions Observed by Mars Express. , 2007, , 239-266.		0
514	Nickel Isotopic Composition and Nickel/Iron Ratio in the Solar Wind: Results from SOHO/CELIAS/MTOF. <i>Space Sciences Series of ISSI</i> , 2007, , 317-321.	0.0	0
515	Solar Wind Composition Associated with the Solar Activity. , 0, , .		0
516	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. <i>Space Sciences Series of ISSI</i> , 2016, , 27-89.	0.0	0
517	Plasma Sources in Planetary Magnetospheres: Mercury. <i>Space Sciences Series of ISSI</i> , 2016, , 91-144.	0.0	0
518	Lunar Atmosphere, Energetic Neutral Atoms. , 2019, , 1-6.		0
519	(Invited) Towards Spatially Resolved Chemical Analysis of Sn/Ag Solder Bumps By Means of Laser Ablation Ionization Mass Spectrometry (LIMS). <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
520	Effects of methane on multi-wall carbon nanotube field emitter for a low energy ion source. <i>Measurement: Sensors</i> , 2021, 18, 100361.	1.7	0
521	VIS spectroscopy of NaCl + water ice mixtures irradiated with 1 and 5 Å eV electrons under Europa's conditions: Formation of colour centres and Na colloids. <i>Icarus</i> , 2022, 379, 114977.	2.5	0