

# Peter Wurz

## List of Publications by Year in descending order

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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	In Situ exploration of the giant planets. <i>Experimental Astronomy</i> , 2022, 54, 975-1013.	1.6	5
2	Exploration of Enceladus and Titan: investigating ocean worldsâ€™ evolution and habitability in the Saturn system. <i>Experimental Astronomy</i> , 2022, 54, 877-910.	1.6	3
3	Neutralized Solar Energetic Particles for SEP Forecasting: Feasibility Study of an Innovative Technique for Space Weather Applications. <i>Earth and Planetary Physics</i> , 2022, 6, 0-0.	0.4	2
4	3D Monte-Carlo simulation of Ganymedeâ€™s water exosphere. <i>Icarus</i> , 2022, 375, 114810.	1.1	13
5	Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2022, 658, A87.	2.1	1
6	Improved limit of detection of a high-resolution fs-LIMS instrument through mass-selective beam blanking. <i>International Journal of Mass Spectrometry</i> , 2022, 474, 116803.	0.7	1
7	Multiwavelength Ablation/Ionization and Mass Spectrometric Analysis of 1.88 Ga Gunflint Chert. <i>Astrobiology</i> , 2022, 22, 369-386.	1.5	4
8	Toward Detecting Polycyclic Aromatic Hydrocarbons on Planetary Objects with ORIGIN. <i>Planetary Science Journal</i> , 2022, 3, 43.	1.5	5
9	Particles and Photons as Drivers for Particle Release from the Surfaces of the Moon and Mercury. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	19
10	Analytical model for the sputtering of rough surfaces. <i>Surfaces and Interfaces</i> , 2022, 30, 101924.	1.5	13
11	The Case for a New Frontiersâ€™ Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. <i>Planetary Science Journal</i> , 2022, 3, 58.	1.5	12
12	The Exosphere as a Boundary: Origin and Evolution of Airless Bodies in the Inner Solar System and Beyond Including Planets with Silicate Atmospheres. <i>Space Science Reviews</i> , 2022, 218, 1.	3.7	6
13	VIS spectroscopy of NaCl â€“ water ice mixtures irradiated with 1 and 5 keV electrons under Europa's conditions: Formation of colour centres and Na colloids. <i>Icarus</i> , 2022, 379, 114977.	1.1	0
14	Callisto's Atmosphere and Its Space Environment: Prospects for the Particle Environment Package on Board JUICE. <i>Earth and Space Science</i> , 2022, 9, .	1.1	6
15	Automated, 3â€ and Subâ€ Micron Accurate Ablationâ€ Volume Determination by Inverse Molding and Xâ€ Ray Computed Tomography. <i>Advanced Science</i> , 2022, 9, e2200136.	5.6	6
16	High Mass Resolution fs-LIMS Imaging and Manifold Learning Reveal Insight Into Chemical Diversity of the 1.88 Ga Gunflint Chert. <i>Frontiers in Space Technologies</i> , 2022, 3, .	0.8	1
17	Correlation Network Analysis for Amino Acid Identification in Soil Samples With the ORIGIN Space-Prototype Instrument. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	2
18	The ORIGIN Space Instrument for Detecting Biosignatures and Habitability Indicators on a Venus Life Finder Mission. <i>Aerospace</i> , 2022, 9, 312.	1.1	8

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19	Interstellar Probe: Humanity's exploration of the Galaxy Begins. <i>Acta Astronautica</i> , 2022, 199, 364-373.	1.7	19
20	Determination of the microscopic mineralogy of inclusion in an amygdaloidal pillow basalt by fs-LIMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 80-91.	1.6	7
21	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.	3.7	26
22	Cadmium telluride as a potential conversion surface. <i>Journal of Applied Physics</i> , 2021, 129, 045303.	1.1	3
23	Description of the Mass Spectrometer for the Jupiter Icy Moons Explorer Mission. , 2021, , .		12
24	New Frontiers-class Uranus Orbiter: Exploring the feasibility of achieving multidisciplinary science with a mid-scale mission. , 2021, 53, .		0
25	Investigation of the Surface Composition by Laser Ablation/Ionization Mass Spectrometry. , 2021, , .		4
26	Joint Europa Mission (JEM): A Multiscale, Multi-Platform Mission to Characterize Europa's Habitability and Search for Extant Life. , 2021, 53, .		0
27	Current Progress in Femtosecond Laser Ablation/Ionisation Time-of-Flight Mass Spectrometry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2562.	1.3	16
28	The Case for a Return to Enceladus. , 2021, 53, .		5
29	Detecting the elemental and molecular signatures of life: Laser-based mass spectrometry technologies. , 2021, 53, .		3
30	Improved plasma stoichiometry recorded by laser ablation ionization mass spectrometry using a double-pulse femtosecond laser ablation ion source. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9094.	0.7	4
31	Characterization of femtosecond laser ablation processes on as-deposited SnAg solder alloy using laser ablation ionization mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106145.	1.5	2
32	Chlorine-bearing species and the <sup>37</sup> Cl/ <sup>35</sup> Cl isotope ratio in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 1020-1032.	1.6	1
33	The Science Case for a Return to Enceladus. <i>Planetary Science Journal</i> , 2021, 2, 132.	1.5	40
34	Quantitative elemental analysis with the LMS-GT; a next-generation LIMS-TOF instrument. <i>International Journal of Mass Spectrometry</i> , 2021, 470, 116662.	0.7	4
35	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.	3.7	32
36	On Topological Analysis of fs-LIMS Data. Implications for in Situ Planetary Mass Spectrometry. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 668163.	2.0	7

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37	Chemical identification of microfossils from the 1.88 Ga Gunflint chert: Towards empirical biosignatures using laser ablation ionization mass spectrometer. <i>Journal of Chemometrics</i> , 2021, 35, e3370.	0.7	7
38	Modeling of Possible Plume Mechanisms on Europa. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029690.	0.8	13
39	Creation of Lunar and Hermean analogue mineral powder samples for solar wind irradiation experiments and mid-infrared spectra analysis. <i>Icarus</i> , 2021, 365, 114492.	1.1	8
40	The chemical composition and homogeneity of the Allende matrix. <i>Planetary and Space Science</i> , 2021, 204, 105251.	0.9	9
41	Future Venus missions and flybys: A collection of possible measurements with mass spectrometers and plasma instruments. <i>Advances in Space Research</i> , 2021, 68, 3205-3217.	1.2	2
42	Design, characteristics and scientific tasks of the LASMA-LR laser ionization mass spectrometer onboard Luna-25 and Luna-27 space missions. <i>International Journal of Mass Spectrometry</i> , 2021, 469, 116676.	0.7	4
43	Regions of interest on Ganymede's and Callisto's surfaces as potential targets for ESA's JUICE mission. <i>Planetary and Space Science</i> , 2021, 208, 105324.	0.9	12
44	Laser Ablation Ionization Mass Spectrometry: A Space Prototype System for In Situ Sulphur Isotope Fractionation Analysis on Planetary Surfaces. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	8
45	Evolution of Mercury's Earliest Atmosphere. <i>Planetary Science Journal</i> , 2021, 2, 230.	1.5	5
46	Effects of methane on multi-wall carbon nanotube field emitter for a low energy ion source. <i>Measurement: Sensors</i> , 2021, 18, 100361.	1.3	0
47	Three-Dimensional Composition Analysis of SnAg Solder Bumps Using Ultraviolet Femtosecond Laser Ablation Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 1355-1362.	3.2	9
48	Chemical analysis of a lunar meteorite by laser ablation mass spectrometry. <i>Planetary and Space Science</i> , 2020, 182, 104816.	0.9	9
49	Mars Ion and Neutral Particle Analyzer (MINPA) for Chinese Mars Exploration Mission (Tianwen-1): Design and ground calibration. <i>Earth and Planetary Physics</i> , 2020, 4, 1-12.	0.4	17
50	Isotope abundance ratio measurements using femtosecond laser ablation ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4660.	0.7	10
51	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.	1.5	15
52	Investigating Mercury's Environment with the Two-Spacecraft BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	71
53	Future Missions Related to the Determination of the Elemental and Isotopic Composition of Earth, Moon and the Terrestrial Planets. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	8
54	Decisions and Trade-Offs in the Design of a Mass Spectrometer for Jupiter's Icy Moons. , 2020, , .		3

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55	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.	0.6	9
56	Chemical and Isotopic Composition Measurements on Atmospheric Probes Exploring Uranus and Neptune. Space Science Reviews, 2020, 216, 1.	3.7	5
57	The Deep Composition of Uranus and Neptune from In Situ Exploration and Thermochemical Modeling. Space Science Reviews, 2020, 216, 1.	3.7	16
58	Solar wind sputtering of lunar analogue material. Journal of Physics: Conference Series, 2020, 1412, 202006.	0.3	0
59	Dynamic Potential Sputtering of Lunar Analog Material by Solar Wind Ions. Astrophysical Journal, 2020, 891, 100.	1.6	22
60	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. Planetary and Space Science, 2020, 193, 104960.	0.9	15
61	ORIGIN: a novel and compact Laser Desorption " Mass Spectrometry system for sensitive in situ detection of amino acids on extraterrestrial surfaces. Scientific Reports, 2020, 10, 9641.	1.6	24
62	Rationale for BepiColombo Studies of Mercury's Surface and Composition. Space Science Reviews, 2020, 216, 1.	3.7	46
63	Performance of a Low Energy Ion Source with Carbon Nanotube Electron Emitters under the Influence of Various Operating Gases. Nanomaterials, 2020, 10, 354.	1.9	8
64	UV post-ionization laser ablation ionization mass spectrometry for improved nm-depth profiling resolution on Cr/Ni reference standard. Rapid Communications in Mass Spectrometry, 2020, 34, e8803.	0.7	16
65	Experimental Insights Into Space Weathering of Phobos: Laboratory Investigation of Sputtering by Atomic and Molecular Planetary Ions. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006583.	1.5	15
66	The Solar Orbiter Solar Wind Analyser (SWA) suite. Astronomy and Astrophysics, 2020, 642, A16.	2.1	141
67	Space weathering on the Moon: Farside-nearside solar wind precipitation asymmetry. Planetary and Space Science, 2019, 166, 9-22.	0.9	20
68	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 489, 594-607.	1.6	112
69	The LMS-GT instrument " a new perspective for quantification with the LIMS-TOF measurement technique. Journal of Analytical Atomic Spectrometry, 2019, 34, 2061-2073.	1.6	15
70	Three-Dimensional Modeling of Callisto's Surface Sputtered Exosphere Environment. Journal of Geophysical Research: Space Physics, 2019, 124, 7157-7169.	0.8	12
71	Detectability of biosignatures in a low-biomass simulation of martian sediments. Scientific Reports, 2019, 9, 9706.	1.6	19
72	Mercury's subsolar sodium exosphere: an ab initio calculation to interpret MASCS/UVVS observations from MESSENGER. Annales Geophysicae, 2019, 37, 455-470.	0.6	15

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73	Novel 2D binning approach for advanced LIMS depth profiling analysis. Journal of Analytical Atomic Spectrometry, 2019, 34, 1564-1570.	1.6	9
74	Experimenting with Mixtures of Water Ice and Dust as Analogues for Icy Planetary Material. Space Science Reviews, 2019, 215, 1.	3.7	29
75	Residual Gas Adsorption and Desorption in the Field Emission of Titanium-Coated Carbon Nanotubes. Materials, 2019, 12, 2937.	1.3	6
76	A comparison between the two lobes of comet 67P/Churyumov-Gerasimenko based on D/H ratios in H <sub>2</sub> O measured with the Rosetta/ROSINA DFMS. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4734-4740.	1.6	13
77	The upper atmosphere of Venus: Model predictions for mass spectrometry measurements. Planetary and Space Science, 2019, 170, 29-41.	0.9	8
78	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.	0.8	7
79	Model-free Maps of Interstellar Neutral Hydrogen Measured with IBEX between 2009 and 2018. Astrophysical Journal, 2019, 871, 52.	1.6	25
80	Heavy Ion Composition of Mercury's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 2603-2612.	0.8	13
81	<sup>16</sup> O/ <sup>18</sup> 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.	2.1	23
82	Two years with comet 67P/Churyumov-Gerasimenko: H <sub>2</sub> O, CO <sub>2</sub> , and CO as seen by the ROSINA/RTOF instrument of Rosetta. Astronomy and Astrophysics, 2019, 630, A33.	2.1	13
83	Comparison of neutral outgassing of comet 67P/Churyumov-Gerasimenko inbound and outbound beyond 3 AU from ROSINA/DFMS. Astronomy and Astrophysics, 2019, 630, A30.	2.1	8
84	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.	1.6	35
85	Review "Laser Ablation Ionization Mass Spectrometry (LIMS) for Analysis of Electrodeposited Cu Interconnects. Journal of the Electrochemical Society, 2019, 166, D3190-D3199.	1.3	17
86	A method for improvement of mass resolution and isotope accuracy for laser ablation time-of-flight mass spectrometers. Journal of Chemometrics, 2019, 33, e3081.	0.7	9
87	Radiation Pressure from Interstellar Hydrogen Observed by IBEX through Solar Cycle 24. Astrophysical Journal, 2019, 887, 217.	1.6	18
88	Lunar Atmosphere, Energetic Neutral Atoms. , 2019, , 1-6.		0
89	(Invited) Towards Spatially Resolved Chemical Analysis of Sn/Ag Solder Bumps By Means of Laser Ablation Ionization Mass Spectrometry (LIMS). ECS Meeting Abstracts, 2019, , .	0.0	0
90	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.	1.6	6

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91	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.	1.6	34
92	Combining Anisotropic Etching and PDMS Casting for Three-Dimensional Analysis of Laser Ablation Processes. <i>Analytical Chemistry</i> , 2018, 90, 2692-2700.	3.2	16
93	A low energy ion beam facility for mass spectrometer calibration: First results. <i>Review of Scientific Instruments</i> , 2018, 89, 013305.	0.6	3
94	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.	1.6	13
95	Towards a Global Unified Model of Europa's Tenuous Atmosphere. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	36
96	Insights into Laser Ablation Processes of Heterogeneous Samples: Toward Analysis of Through-Silicon-Vias. <i>Analytical Chemistry</i> , 2018, 90, 6666-6674.	3.2	9
97	Depth Profiling and Cross-Sectional Laser Ablation Ionization Mass Spectrometry Studies of Through-Silicon-Vias. <i>Analytical Chemistry</i> , 2018, 90, 5179-5186.	3.2	19
98	Scientific rationale for Uranus and Neptune in situ explorations. <i>Planetary and Space Science</i> , 2018, 155, 12-40.	0.9	69
99	Scattering of low-energetic atoms and molecules from a boron-doped CVD diamond surface. <i>Applied Surface Science</i> , 2018, 427, 427-433.	3.1	1
100	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. <i>Planetary and Space Science</i> , 2018, 155, 73-90.	0.9	26
101	0.2 to 10 keV electrons interacting with water ice: Radiolysis, sputtering, and sublimation. <i>Planetary and Space Science</i> , 2018, 155, 91-98.	0.9	23
102	SELMA mission: How do airless bodies interact with space environment? The Moon as an accessible laboratory. <i>Planetary and Space Science</i> , 2018, 156, 23-40.	0.9	5
103	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.	3.0	37
104	Noble Gas Abundance Ratios Indicate the Agglomeration of 67P/Churyumov-Gerasimenko from Warmed-up Ice. <i>Astrophysical Journal Letters</i> , 2018, 865, L11.	3.0	11
105	First Observation of Transport of Solar Wind Protons Scattered From Magnetic Anomalies Into the Near Lunar Wake: Observations by SARA/Chandrayaan-1. <i>Geophysical Research Letters</i> , 2018, 45, 8826-8833.	1.5	6
106	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	129
107	Synthesis of Molecular Oxygen via Irradiation of Ice Grains in the Protosolar Nebula. <i>Astrophysical Journal</i> , 2018, 858, 66.	1.6	11
108	First experimental data of sulphur ions sputtering water ice. <i>Icarus</i> , 2018, 312, 1-6.	1.1	13

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109	Velocity distribution function of Na released by photons from planetary surfaces. <i>Planetary and Space Science</i> , 2018, 159, 97-104.	0.9	16
110	Flight electronics of GC-mass spectrometer for investigation of volatiles in the lunar regolith. , 2018, , ,		7
111	Europa's ice-related atmosphere: The sputter contribution. <i>Icarus</i> , 2018, 311, 135-145.	1.1	34
112	Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2018, 4, eaar6297.	4.7	52
113	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. <i>Astrobiology</i> , 2018, 18, 1071-1080.	1.5	35
114	EGT's A sensitive time-of-flight mass spectrometer for multielement isotope gas analysis. <i>Journal of Mass Spectrometry</i> , 2018, 53, 1036-1045.	0.7	2
115	Solar wind sputtering of wollastonite as a lunar analogue material – Comparisons between experiments and simulations. <i>Icarus</i> , 2018, 314, 98-105.	1.1	30
116	Mass spectrometric analysis of the Mg plasma produced by double-pulse femtosecond laser irradiation. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1292-1303.	1.6	17
117	Sensitivity and fragmentation calibration of the time-of-flight mass spectrometer RTOF on board ESA's Rosetta mission. <i>Planetary and Space Science</i> , 2017, 135, 64-73.	0.9	22
118	On the in-situ detectability of Europa's water vapour plumes from a flyby mission. <i>Icarus</i> , 2017, 289, 270-280.	1.1	10
119	Toward Three-Dimensional Chemical Imaging of Ternary Cu-Sn-Pb Alloys Using Femtosecond Laser Ablation/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 1632-1641.	3.2	47
120	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. <i>Astronomy and Astrophysics</i> , 2017, 600, A77.	2.1	29
121	High-speed microstrip multi-anode multichannel plate detector system. <i>Review of Scientific Instruments</i> , 2017, 88, 045114.	0.6	35
122	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.	1.6	66
123	A New Method and Mass-Spectrometric Instrument for Extraterrestrial Microbial Life Detection Using the Elemental Composition Analyses of Martian Regolith and Permafrost/Ice. <i>Astrobiology</i> , 2017, 17, 448-458.	1.5	11
124	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 601, A123.	2.1	26
125	New suprathermal proton population around the Moon: Observation by SARA on Chandrayaan-1. <i>Geophysical Research Letters</i> , 2017, 44, 4540-4548.	1.5	2
126	Xenon isotopes in 67P/Churyumov-Gerasimenko show that comets contributed to Earth's atmosphere. <i>Science</i> , 2017, 356, 1069-1072.	6.0	161



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127	Solar wind scattering from the surface of Mercury: Lessons from the Moon. <i>Icarus</i> , 2017, 296, 39-48.	1.1	7
128	Sputtering of water ice films: A re-assessment with singly and doubly charged oxygen and argon ions, molecular oxygen, and electrons. <i>Icarus</i> , 2017, 291, 36-45.	1.1	17
129	Impact of Radiogenic Heating on the Formation Conditions of Comet 67P/Churyumov-Gerasimenko. <i>Astrophysical Journal Letters</i> , 2017, 839, L4.	3.0	19
130	Shielding an MCP Detector for a Space-Borne Mass Spectrometer Against the Harsh Radiation Environment in Jupiter's Magnetosphere. <i>IEEE Transactions on Nuclear Science</i> , 2017, 64, 605-613.	1.2	11
131	Isotopic composition of CO <sub>2</sub> in the coma of 67P/Churyumov-Gerasimenko measured with ROSINA/DFMS. <i>Astronomy and Astrophysics</i> , 2017, 605, A50.	2.1	35
132	Improved detection sensitivity for heavy trace elements using a miniature laser ablation ionisation mass spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2182-2188.	1.6	19
133	An Impacting Descent Probe for Europa and the Other Galilean Moons of Jupiter. <i>Earth, Moon and Planets</i> , 2017, 120, 113-146.	0.3	8
134	Halogens as tracers of protosolar nebula material in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1336-1345.	1.6	44
135	The Downwind Hemisphere of the Heliosphere: Eight Years of IBEX-Lo Observations. <i>Astrophysical Journal</i> , 2017, 851, 2.	1.6	35
136	Heliosheath Processes and the Structure of the Heliopause: Modeling Energetic Particles, Cosmic Rays, and Magnetic Fields. <i>Space Science Reviews</i> , 2017, 212, 193-248.	3.7	57
137	Fully automatic and precise data analysis developed for time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2017, 52, 580-590.	0.7	38
138	Testing the Radiation Hardness of Thick-Film Resistors for a Time-Of-Flight Mass Spectrometer at Jupiter with 18 MeV Protons. , 2017, , .		3
139	Mass spectrometry of planetary exospheres at high relative velocity: direct comparison of open- and closed-source measurements. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2017, 6, 1-8.	0.6	19
140	Evidence for distributed gas sources of hydrogen halides in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S695-S711.	1.6	27
141	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.	1.4	32
142	Towards matrix-free femtosecond laser desorption mass spectrometry for <i>in situ</i> space research. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1031-1036.	0.7	25
143	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.	3.0	71
144	FIP effect for minor heavy solar wind ions as seen with SOHO/CELIAS/MTOF. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0

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145	Laser Ablation/Ionisation Mass Spectrometry: Sensitive and Quantitative Chemical Depth Profiling of Solid Materials. <i>Chimia</i> , 2016, 70, 268.	0.3	18
146	THE ROLL-OVER OF HELIOSPHERIC NEUTRAL HYDROGEN BELOW 100 eV: OBSERVATIONS AND IMPLICATIONS. <i>Astrophysical Journal</i> , 2016, 821, 107.	1.6	31
147	Surface charging of thick porous water ice layers relevant for ion sputtering experiments. <i>Planetary and Space Science</i> , 2016, 126, 63-71.	0.9	11
148	Experimental investigation of the radiation shielding efficiency of a MCP detector in the radiation environment near Jupiter's moon Europa. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 383, 21-37.	0.6	13
149	Transport of solar wind plasma onto the lunar nightside surface. <i>Geophysical Research Letters</i> , 2016, 43, 10,586.	1.5	9
150	Mass spectrometric characterization of the Rosetta Spacecraft contamination. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
151	Ion chemistry in the coma of comet 67P near perihelion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S67-S77.	1.6	28
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