

M Hilchenbach

List of Publications by Year in descending order

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79
papers

2,326
citations

218381

26
h-index

214527

47
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81
all docs

81
docs citations

81
times ranked

1956
citing authors

#	ARTICLE	IF	CITATIONS
1	D/H in the refractory organics of comet 67P/Churyumov-Gerasimenko measured by Rosetta/COSIMA. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4940-4951.	1.6	11
2	Optical properties of cometary particles collected by COSIMA: Assessing the differences between microscopic and macroscopic scales. Planetary and Space Science, 2020, 182, 104815.	0.9	4
3	Heliospheric Structure as Revealed by the 88 keV H ENA Spectra. Astrophysical Journal, 2020, 888, 1.	1.6	8
4	Compressive strength of comet 67P/Churyumov-Gerasimenko derived from Philae surface contacts. Astronomy and Astrophysics, 2019, 630, A2.	2.1	16
5	The footprint of cometary dust analogues II. Morphology as a tracer of tensile strength and application to dust collection by the Rosetta spacecraft. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3755-3765.	1.6	4
6	Synthesis of the morphological description of cometary dust at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A24.	2.1	100
7	H/C elemental ratio of the refractory organic matter in cometary particles of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A27.	2.1	22
8	The oxygen isotopic composition ($^{18}\text{O}/^{16}\text{O}$) in the dust of comet 67P/Churyumov-Gerasimenko measured by COSIMA on-board Rosetta. Monthly Notices of the Royal Astronomical Society, 2018, 477, 3836-3844.	1.6	10
9	The Castalia mission to Main Belt Comet 133P/Elst-Pizarro. Advances in Space Research, 2018, 62, 1947-1976.	1.2	27
10	Structure of the heliosheath from HSTOF energetic neutral atoms measurements. Astronomy and Astrophysics, 2018, 618, A26.	2.1	5
11	Evidence of sub-surface energy storage in comet 67P from the outburst of 2016 July 03. Monthly Notices of the Royal Astronomical Society, 2017, 469, s606-s625.	1.6	45
12	The footprint of cometary dust analogues I. Laboratory experiments of low-velocity impacts and comparison with Rosetta data. Monthly Notices of the Royal Astronomical Society, 2017, 469, S204-S216.	1.6	19
13	Suprathermal helium in corotating interaction regions: combined observations from SOHO/CELIAS/STOF and ACE/SWICS. Astronomy and Astrophysics, 2017, 599, A13.	2.1	9
14	Optical properties of cometary particles collected by the COSIMA mass spectrometer on-board Rosetta during the rendezvous phase around comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S535-S549.	1.6	17
15	COMET 67P/CHURYUMOV-GERASIMENKO: CLOSE-UP ON DUST PARTICLE FRAGMENTS. Astrophysical Journal Letters, 2016, 816, L32.	3.0	84
16	Typology of dust particles collected by the COSIMA mass spectrometer in the inner coma of 67P/Churyumov Gerasimenko. Icarus, 2016, 271, 76-97.	1.1	141
17	Analysis of COSIMA spectra: Bayesian approach. Geoscientific Instrumentation, Methods and Data Systems, 2015, 4, 139-148.	0.6	0
18	DENSITY AND CHARGE OF PRISTINE FLUFFY PARTICLES FROM COMET 67P/CHURYUMOV-GERASIMENKO. Astrophysical Journal Letters, 2015, 802, L12.	3.0	130

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19	The nonmagnetic nucleus of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 349, aaa5102.	6.0	52
20	COSIMA data analysis using multivariate techniques. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2015, 4, 45-56.	0.6	1
21	Solar wind He pickup ions as source of tens-of-keV/n neutral He atoms observed by the HSTOF/SOHO detector. <i>Astronomy and Astrophysics</i> , 2014, 563, A134.	2.1	6
22	Calibration measurements on the DEPFET Detectors for the MIXS instrument on BepiColombo. <i>Experimental Astronomy</i> , 2014, 37, 525-538.	1.6	15
23	HSTOF ENA observations and energetic ion distributions in the heliosheath. <i>Astronomy and Astrophysics</i> , 2012, 541, A14.	2.1	6
24	THICKNESS OF THE HELIOSHEATH, RETURN OF THE PICK-UP IONS, AND <i>VOYAGER 1</i> 'S CROSSING THE HELIOPAUSE. <i>Astrophysical Journal Letters</i> , 2010, 718, L185-L188.	3.0	18
25	The mercury imaging X-ray spectrometer (MIXS) on bepicolombo. <i>Planetary and Space Science</i> , 2010, 58, 79-95.	0.9	127
26	MIXS on BepiColombo and its DEPFET based focal plane instrumentation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 624, 540-547.	0.7	37
27	Energetic Ions and the Observations of the Heliosheath by means of ENA. , 2010, , .		0
28	Evidence for Iroshnikov-Kraichnan-Type Turbulence in the Solar Wind Upstream of Interplanetary Traveling Shocks. <i>Astrophysical Journal</i> , 2008, 675, L45-L48.	1.6	15
29	Imaging the heliosheath using HSTOF energetic neutral atoms andÂVoyagerÂ1 ion data. <i>Astronomy and Astrophysics</i> , 2008, 487, 329-335.	2.1	11
30	Cosima â€œ High Resolution Time-of-Flight Secondary Ion Mass Spectrometer for the Analysis of Cometary Dust Particles onboard Rosetta. <i>Space Science Reviews</i> , 2007, 128, 823-867.	3.7	139
31	Isotopic Composition of the Solar Wind Inferred from In-Situ Spacecraft Measurements. <i>Space Science Reviews</i> , 2007, 130, 173-182.	3.7	5
32	Isotopic Composition of the Solar Wind Inferred from In-Situ Spacecraft Measurements. <i>Space Sciences Series of ISSI</i> , 2007, , 173-182.	0.0	0
33	Estimating the Thickness of the Heliosheath from CELIAS/HSTOF and Voyager 1 Data. <i>Astrophysical Journal</i> , 2006, 647, L69-L72.	1.6	9
34	Observation of energy-dependent ionic charge states in impulsive solar energetic particle events. <i>Advances in Space Research</i> , 2006, 38, 493-497.	1.2	28
35	Heliospheric energetic neutral atoms as a means to determine the anomalous cosmic ray spectrum at the termination shock. <i>Astronomy and Astrophysics</i> , 2005, 431, 1061-1068.	2.1	4
36	On the â€œinjection problemâ€œ at the solar wind termination shock. <i>Astronomy and Astrophysics</i> , 2005, 439, 1-22.	2.1	24

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37	Studying the Heliosphere in Energetic Neutral H and He Atoms above 30 keV/amu. AIP Conference Proceedings, 2004, , .	0.3	0
38	On the Origin of Energetic Neutral Atoms Detected by the SOHO/CELIAS/HSTOF Sensor. AIP Conference Proceedings, 2004, , .	0.3	3
39	Anomalous helium ions as the source of energetic helium atoms in the outer heliosphere. Advances in Space Research, 2004, 34, 104-108.	1.2	7
40	A collimator design for monitoring heliospheric energetic neutral atoms at 1 AU. Advances in Space Research, 2004, 34, 213-218.	1.2	6
41	Probing diffusion parameters of suprathermal ions near heliospheric shocks. Advances in Space Research, 2004, 34, 157-160.	1.2	1
42	Suprathermal ions of solar and interstellar origin associated with the April 9 th 2001, CMEs. Advances in Space Research, 2004, 34, 161-165.	1.2	1
43	Hydromagnetic Wave Excitation Upstream of an Interplanetary Traveling Shock. Astrophysical Journal, 2004, 601, L99-L102.	1.6	52
44	On the source and acceleration of energetic He ⁺ : A long-term observation with ACE/SEPICA. Journal of Geophysical Research, 2003, 108, .	3.3	43
45	Charge-to-mass fractionation during injection and acceleration of suprathermal particles associated with the Bastille Day event: SOHO/CELIAS/HSTOF data. AIP Conference Proceedings, 2003, , .	0.3	3
46	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
47	Space-borne mass spectrometer instrumentation. International Journal of Mass Spectrometry, 2002, 215, 113-129.	0.7	8
48	Observations of heavy ion charge spectra in CME driven gradual solar energetic particle events. Advances in Space Research, 2002, 30, 111-117.	1.2	2
49	Space weather observations using the SOHO CELIAS complement of instruments. Journal of Geophysical Research, 2001, 106, 29963-29968.	3.3	7
50	Viewing corotating interaction regions globally using energetic neutral atoms. Journal of Geophysical Research, 2001, 106, 24907-24914.	3.3	16
51	Anomalous Cosmic Rays outside of the Termination Shock. COSPAR Colloquia Series, 2001, 11, 199-202.	0.2	0
52	Energetic Neutral Helium of Heliospheric Origin at 1AU. COSPAR Colloquia Series, 2001, 11, 219-222.	0.2	4
53	Energetic Neutral Hydrogen of Heliospheric Origin Observed with SOHO/CELIAS at 1 AU. COSPAR Colloquia Series, 2001, 11, 273-276.	0.2	15
54	Doppler Shifted Photon Emission expected due to Reactions of Energetic Protons with the LISM Atoms in the Heliosphere. COSPAR Colloquia Series, 2001, , 281-284.	0.2	2

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55	Anomalous cosmic rays and the generation of energetic neutrals in the region beyond the termination shock. <i>Astronomy and Astrophysics</i> , 2001, 368, 622-634.	2.1	24
56	Pick-up ions upstream and downstream of the termination shock. <i>Astronomy and Astrophysics</i> , 2001, 379, 601-610.	2.1	9
57	Imaging the global distribution of anomalous cosmic rays. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
58	The Solar Origin of Corotating Interaction Regions and Their Formation in the Inner Heliosphere. <i>Space Science Reviews</i> , 1999, 89, 141-178.	3.7	78
59	Origin, Injection, and Acceleration of CIR Particles: Observations Report of Working Group 6. <i>Space Science Reviews</i> , 1999, 89, 327-367.	3.7	33
60	Solar wind isotopic abundance ratios of ne, mg and si measured by SOHO/CELIAS/MTOF as diagnostic tool for the inner corona. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 415-419.	0.2	2
61	The iron, silicon and oxygen abundance in the solar wind measured with SOHO/CELIAS/MTOF. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 421-426.	0.2	1
62	Direct evidence of the interstellar gas flow velocity in the pickup ion cut-off as observed with SOHO CELIAS CTOF. <i>Geophysical Research Letters</i> , 1999, 26, 3181-3184.	1.5	28
63	The Solar Origin of Corotating Interaction Regions and their Formation in the Inner Heliosphere. <i>Space Sciences Series of ISSI</i> , 1999, , 141-178.	0.0	4
64	Origin, Injection, and Acceleration of CIR Particles: Observations. <i>Space Sciences Series of ISSI</i> , 1999, , 327-367.	0.0	10
65	Fractionation of SI, NE, and MG Isotopes in the Solar Wind as Measured by Soho/Celias/MTOF. <i>Space Science Reviews</i> , 1998, 85, 357-370.	3.7	39
66	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
67	Solar wind measurements with SOHO: The CELIAS/MTOF proton monitor. <i>Journal of Geophysical Research</i> , 1998, 103, 17205-17213.	3.3	58
68	Elemental composition of the January 6, 1997, CME. <i>Geophysical Research Letters</i> , 1998, 25, 2557-2560.	1.5	27
69	Iron freeze-in temperatures measured by SOHO/CELIAS/CTOF. <i>Journal of Geophysical Research</i> , 1998, 103, 17215-17222.	3.3	30
70	Magnesium isotopic composition as observed with the CELIAS/MTOF experiment on the SOHO spacecraft. <i>Journal of Geophysical Research</i> , 1998, 103, 26805-26812.	3.3	16
71	Detection of 55-80 keV Hydrogen Atoms of Heliospheric Origin by CELIAS/HSTOF onSOHO. <i>Astrophysical Journal</i> , 1998, 503, 916-922.	1.6	86
72	Isotopic Composition of Solar Wind Calcium: First in Situ Measurementby CELIAS/MTOF on board [ITAL]SOHO[/ITAL]. <i>Astrophysical Journal</i> , 1998, 498, L75-L78.	1.6	16

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73	Isotopic Composition of Solar Wind Nitrogen: First In Situ Determination with the CELIAS/MTOF Spectrometer on board [ITAL]SOHO[ITAL]. Astrophysical Journal, 1998, 507, L185-L188.	1.6	56
74	First Solar EUV Irradiances Obtained from SOHO by the CELIAS/SEM. , 1998, , 161-173.		37
75	Fractionation of Si, NE, and Mg Isotopes in the Solar Wind as Measured by SOHO/CELIAS/MTOF. Space Sciences Series of ISSI, 1998, , 357-370.	0.0	9
76	Isotopic composition of solar wind neon measured by CELIAS/MTOF on board SOHO. Journal of Geophysical Research, 1997, 102, 26895-26904.	3.3	60
77	Venus tail ray observation near Earth. Geophysical Research Letters, 1997, 24, 1163-1166.	1.5	31
78	CELIAS - Charge, Element and Isotope Analysis System for SOHO. Solar Physics, 1995, 162, 441-481.	1.0	272
79	The $^{34}\text{S}/^{32}\text{S}$ Isotopic Ratio Measured in the Dust of Comet 67P/Churyumov-Gerasimenko by Rosetta/COSIMA. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	1