Christophe Risacher

List of Publications by Year
in descending order

70 papers	6,935 citations	126907 33 h-index	123424 61 g-index
70 all docs	70 docs citations	70 times ranked	5349 citing authors

#	Article	IF	Citations
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
2	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618
3	ATLASGAL â€“ The APEX telescope large area survey of the galaxy at 870Â$mathsf{mu}$m. Astronomy and Astrophysics, 2009, 504, 415-427.	5.1	577
4	TheHerschel-Heterodyne Instrument for the Far-Infrared (HIFI). Astronomy and Astrophysics, 2010, 518, L6.	5.1	557
5	Water in Star-forming Regions with theHerschel Space Observatory(WISH). I.ÂOverview of Key Program and First Results. Publications of the Astronomical Society of the Pacific, 2011, 123, 138-170.	3.1	206
6	In-orbit performance ofHerschel-HIFI. Astronomy and Astrophysics, 2012, 537, A17.	5.1	205
7	A 1.3-THz Balanced Waveguide HEB Mixer for the APEX Telescope. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 89-98.	4.6	139
8	Astrophysical detection of the helium hydride ion HeH+. Nature, 2019, 568, 357-359.	27.8	136
9	A Swedish heterodyne facility instrument for the APEX telescope. Astronomy and Astrophysics, 2008, 490, 1157-1163.	5.1	128
10	The Earliest Phases of Star Formation (EPoS): aHerschelkey project. Astronomy and Astrophysics, 2013, 551, A98.	5.1	122
11	4.7-THz Superconducting Hot Electron Bolometer Waveguide Mixer. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 207-214.	3.1	101
12	Origin of the hot gas in low-mass protostars. Astronomy and Astrophysics, 2010, 518, L121.	5.1	89
13	Disruption of the Orion molecular core 1 by wind from the massive star Î¸1 Orionis C. Nature, 2019, 565, 618-621.	27.8	82
14	Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system. Astronomy and Astrophysics, 2010, 521, L35.	5.1	80
15	Water cooling of shocks in protostellar outflows. Astronomy and Astrophysics, 2010, 518, L120.	5.1	79
16	Sensitive limits on the abundance of cold water vapor inÂtheÂDMÂTauri protoplanetary disk. Astronomy and Astrophysics, 2010, 521, L33.	5.1	76
17	The upGREAT 1.9 THz multi-pixel high resolution spectrometer for the SOFIA Observatory. Astronomy and Astrophysics, 2016, 595, A34.	5.1	76
18	Water in low-mass star-forming regions withHerschel. Astronomy and Astrophysics, 2010, 521, L30.	5.1	72

#	Article	IF	Citations
19	The Earliest Phases of Star formation (EPoS) observed withHerschel: the dust temperature and density distributions of B68. Astronomy and Astrophysics, 2012, 547, A11.	5.1	70
20	The upGREAT Dual Frequency Heterodyne Arrays for SOFIA. Journal of Astronomical Instrumentation, 2018, 07, .	1.5	69
21	APEX-CHAMP⁺high-JCO observations of low-mass young stellar objects. Astronomy and Astrophysics, 2015, 576, A109.	5.1	66
22	Observations and modelling of CO and [Câ€‰i] in protoplanetary disks. Astronomy and Astrophysics, 2016, 588, A108.	5.1	64
23	First Supra-THz Heterodyne Array Receivers for Astronomy With the SOFIA Observatory. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 199-211.	3.1	59
24	Kuiper belts around nearby stars. Astronomy and Astrophysics, 2010, 518, A40.	5.1	56
25	GREAT confirms transient nature of the circum-nuclear disk. Astronomy and Astrophysics, 2012, 542, L21.	5.1	56
26	Waveguide-to-microstrip transition with integrated bias-T. IEEE Microwave and Wireless Components Letters, 2003, 13, 262-264.	3.2	49
27	Herschel/HIFI observations of high-JCO lines in the NGC 1333 low-mass star-forming region. Astronomy and Astrophysics, 2010, 521, L40.	5.1	47
28	Water vapor toward starless cores: TheHerschelview. Astronomy and Astrophysics, 2010, 521, L29.	5.1	45
29	Strong CH⁺J= 1â€“0 emission and absorption in DR21. Astronomy and Astrophysics, 2010, 518, L118.	5.1	45
30	Water in massive star-forming regions: HIFI observations of W3ÂIRS5. Astronomy and Astrophysics, 2010, 521, L37.	5.1	44
31	[Câ€‰II] emission from L1630 in the Orion B molecular cloud. Astronomy and Astrophysics, 2017, 606, A29.	5.1	42
32	A 0.8 mm heterodyne facility receiver for the APEX telescope. Astronomy and Astrophysics, 2006, 454, L17-L20.	5.1	38
33	Herschel/HIFI detections of hydrides towards AFGL 2591. Astronomy and Astrophysics, 2010, 521, L44.	5.1	36
34	APEX: the Atacama Pathfinder EXperiment. , 2006, 6267, 389.		33
35	Water abundance variations around high-mass protostars: HIFI observations of the DR21 region. Astronomy and Astrophysics, 2010, 518, L107.	5.1	32
36	Herschelobservations of the hydroxyl radical (OH) in young stellar objects. Astronomy and Astrophysics, 2010, 521, L36.	5.1	32

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37	Variations in H₂O⁺/H₂O ratios toward massive star-forming regions. Astronomy and Astrophysics, 2010, 521, L34.	5.1	31
38	The distribution of water in the high-mass star-forming region NGCÂ6334ÂI. Astronomy and Astrophysics, 2010, 521, L28.	5.1	30
39	A submillimetre search for cold extended debris disks in the $mathsf{eta}$ Pictoris moving group. Astronomy and Astrophysics, 2009, 508, 1057-1065.	5.1	27
40	q$^{mathsf{1}}$â€‰Eridani: a solar-type star with a planet and a dust belt. Astronomy and Astrophysics, 2008, 480, L47-L50.	5.1	26
41	The structure of the Cepheusâ€‰E protostellar outflow: The jet, the bowshock, and the cavity. Astronomy and Astrophysics, 2015, 581, A4.	5.1	25
42	Water abundances in high-mass protostellar envelopes:Herschelobservations with HIFI. Astronomy and Astrophysics, 2010, 521, L32.	5.1	23
43	A Proposed Heterodyne Receiver for the Origins Space Telescope. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 558-571.	3.1	23
44	SUPERCONDUCTING MICROSTRIP LINE MODEL STUDIES AT MILLIMETRE AND SUB-MILLIMETRE WAVES. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 27, 809-834.	0.6	21
45	Herschel-PACS spectroscopy of the intermediate mass protostar NGCÂ7129 FIRS 2. Astronomy and Astrophysics, 2010, 518, L86.	5.1	21
46	Micromachining approach in fabricating of THz waveguide components. Microelectronics Journal, 2005, 36, 683-686.	2.0	20
47	Carbon gas in SMC low-metallicity star-forming regions. Astronomy and Astrophysics, 2016, 589, A28.	5.1	20
48	Herschel/HIFI spectroscopy of the intermediate mass protostar NGCâ€‰7129 FIRSÂ2. Astronomy and Astrophysics, 2010, 521, L41.	5.1	18
49	Excitation of the molecular gas in the nuclear region of Mâ€‰82. Astronomy and Astrophysics, 2010, 521, L2.	5.1	17
50	Outflow forces in intermediate-mass star formation. Astronomy and Astrophysics, 2016, 587, A17.	5.1	17
51	A sideband separating mixer for 85-115 GHz. IEEE Microwave and Wireless Components Letters, 2004, 14, 256-258.	3.2	15
52	High-JCO emission in the Cepheus E protostellar outflow observed with SOFIA/GREAT. Astronomy and Astrophysics, 2012, 542, L9.	5.1	15
53	GaAs HEMT low-noise cryogenic amplifiers from C-band to X-band with 0.7-K/GHz noise temperature. IEEE Microwave and Wireless Components Letters, 2003, 13, 96-98.	3.2	14
54	Polarisation observations of VY Canis Majoris H₂O 5₃₂â€“4₄₁620.701ÂGHz maser emission with HIFI. Astronomy and Astrophysics, 2010, 521, L51.	5.1	12

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55	Heterodyne single-pixel facility instrumentation for the APEX Telescope. , 2006, , .		11
56	Facility heterodyne receiver for the Atacama Pathfinder Experiment Telescope. , 2007, , .		10
57	Velocity-resolved [ ] Emission from Cold Diffuse Clouds in the Interstellar Medium. Astrophysical Journal, 2018, 856, 96.	4.5	10
58	4GREATâ€"A Four-Color Receiver for High-Resolution Airborne Terahertz Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 194-204.	3.1	9
59	Ionized gas in the Scutum spiral arm as traced in [Nâ€‰ii] and [Câ€‰ii]. Astronomy and Astrophysics, 2017, 607, A59.	5.1	8
60	A 275â€“370 GHz Receiver Employing Novel Probe Structure. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 867-879.	0.6	6
61	A sideband separation SIS mixer for 275-370 GHz for the APEX Telescope. , 2006, 6275, 593.		4
62	The upGREAT heterodyne array receivers for far Infrared astronomy. , 2014, , .		3
63	Performance and Science Opportunities with the upGREAT Spectrometer onboard of SOFIA. EAS Publications Series, 2015, 75-76, 427-432.	0.3	3
64	Heterodyn receiver for the Origins Space Telescope concept 2. , 2018, , .		2
65	APEX: five years of operations. Proceedings of SPIE, 2010, , .	0.8	1
66	ATLASGAL: the APEX Telescope Large Area Survey of the Galaxy. EAS Publications Series, 2011, 52, 129-134.	0.3	1
67	Controlling the THz heterodyne — Lesson learned from HIFI/Herschel mission. , 2012, , .		1
68	SOFIA/GREAT [Câ€‰ii] observations in nearby clouds near the lines of sight towards B0355+508 and B0212+735. Astronomy and Astrophysics, 2017, 600, A94.	5.1	1
69	A 275- to 370-GHz SIS mixer for the APEX telescope. , 2004, 5498, 140.		0
70	Performance of a sideband separating SIS mixer for 85-115 GHz. , 2004, , .		0