

Christophe Risacher

List of Publications by Year in descending order

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70
papers

6,935
citations

126907

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123424

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70
docs citations

70
times ranked

5349
citing authors

#	ARTICLE	IF	CITATIONS
1	4GREAT – A Four-Color Receiver for High-Resolution Airborne Terahertz Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 194-204.	3.1	9
2	Astrophysical detection of the helium hydride ion HeH+. Nature, 2019, 568, 357-359.	27.8	136
3	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618
4	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
5	Disruption of the Orion molecular core 1 by wind from the massive star θ^1 Orionis C. Nature, 2019, 565, 618-621.	27.8	82
6	The upGREAT Dual Frequency Heterodyne Arrays for SOFIA. Journal of Astronomical Instrumentation, 2018, 07, .	1.5	69
7	A Proposed Heterodyne Receiver for the Origins Space Telescope. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 558-571.	3.1	23
8	Velocity-resolved [CII] Emission from Cold Diffuse Clouds in the Interstellar Medium. Astrophysical Journal, 2018, 856, 96.	4.5	10
9	Heterodyn receiver for the Origins Space Telescope concept 2. , 2018, , .		2
10	SOFIA/GREAT [CII] observations in nearby clouds near the lines of sight towards B0355+508 and B0212+735. Astronomy and Astrophysics, 2017, 600, A94.	5.1	1
11	[CII] emission from L1630 in the Orion B molecular cloud. Astronomy and Astrophysics, 2017, 606, A29.	5.1	42
12	Ionized gas in the Scutum spiral arm as traced in [NII] and [CII]. Astronomy and Astrophysics, 2017, 607, A59.	5.1	8
13	Observations and modelling of CO and [CII] in protoplanetary disks. Astronomy and Astrophysics, 2016, 588, A108.	5.1	64
14	The upGREAT 1.9 THz multi-pixel high resolution spectrometer for the SOFIA Observatory. Astronomy and Astrophysics, 2016, 595, A34.	5.1	76
15	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
16	Outflow forces in intermediate-mass star formation. Astronomy and Astrophysics, 2016, 587, A17.	5.1	17
17	Carbon gas in SMC low-metallicity star-forming regions. Astronomy and Astrophysics, 2016, 589, A28.	5.1	20
18	The structure of the Cepheus protostellar outflow: The jet, the bowshock, and the cavity. Astronomy and Astrophysics, 2015, 581, A4.	5.1	25

#	ARTICLE	IF	CITATIONS
19	4.7-THz Superconducting Hot Electron Bolometer Waveguide Mixer. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 207-214.	3.1	101
20	APEX-CHAMP high-JCO observations of low-mass young stellar objects. Astronomy and Astrophysics, 2015, 576, A109.	5.1	66
21	Performance and Science Opportunities with the upGREAT Spectrometer onboard of SOFIA. EAS Publications Series, 2015, 75-76, 427-432.	0.3	3
22	The upGREAT heterodyne array receivers for far Infrared astronomy. , 2014, , .		3
23	The Earliest Phases of Star Formation (EPoS): a Herschel key project. Astronomy and Astrophysics, 2013, 551, A98.	5.1	122
24	In-orbit performance of Herschel-HIFI. Astronomy and Astrophysics, 2012, 537, A17.	5.1	205
25	Controlling the THz heterodyne; Lesson learned from HIFI/Herschel mission. , 2012, , .		1
26	GREAT confirms transient nature of the circum-nuclear disk. Astronomy and Astrophysics, 2012, 542, L21.	5.1	56
27	The Earliest Phases of Star formation (EPoS) observed with Herschel: the dust temperature and density distributions of B68. Astronomy and Astrophysics, 2012, 547, A11.	5.1	70
28	High-JCO emission in the Cepheus E protostellar outflow observed with SOFIA/GREAT. Astronomy and Astrophysics, 2012, 542, L9.	5.1	15
29	Water in Star-forming Regions with the Herschel Space Observatory (WISH). I. Overview of Key Program and First Results. Publications of the Astronomical Society of the Pacific, 2011, 123, 138-170.	3.1	206
30	ATLASGAL: the APEX Telescope Large Area Survey of the Galaxy. EAS Publications Series, 2011, 52, 129-134.	0.3	1
31	APEX: five years of operations. Proceedings of SPIE, 2010, , .	0.8	1
32	Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system. Astronomy and Astrophysics, 2010, 521, L35.	5.1	80
33	Water abundance variations around high-mass protostars: HIFI observations of the DR21 region. Astronomy and Astrophysics, 2010, 518, L107.	5.1	32
34	Water abundances in high-mass protostellar envelopes: Herschel observations with HIFI. Astronomy and Astrophysics, 2010, 521, L32.	5.1	23
35	Sensitive limits on the abundance of cold water vapor in the Tauri protoplanetary disk. Astronomy and Astrophysics, 2010, 521, L33.	5.1	76
36	Variations in H ₂ O/H ₂ O ratios toward massive star-forming regions. Astronomy and Astrophysics, 2010, 521, L34.	5.1	31

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37	Water in massive star-forming regions: HIFI observations of W3IRS5. <i>Astronomy and Astrophysics</i> , 2010, 521, L37.	5.1	44
38	Excitation of the molecular gas in the nuclear region of M82. <i>Astronomy and Astrophysics</i> , 2010, 521, L2.	5.1	17
39	The distribution of water in the high-mass star-forming region NGC6334. <i>Astronomy and Astrophysics</i> , 2010, 521, L28.	5.1	30
40	Water vapor toward starless cores: The <i>Herschel</i> view. <i>Astronomy and Astrophysics</i> , 2010, 521, L29.	5.1	45
41	Strong CH ⁺ = 1 ¹ 0 emission and absorption in DR21. <i>Astronomy and Astrophysics</i> , 2010, 518, L118.	5.1	45
42	Water in low-mass star-forming regions with <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2010, 521, L30.	5.1	72
43	Kuiper belts around nearby stars. <i>Astronomy and Astrophysics</i> , 2010, 518, A40.	5.1	56
44	Water cooling of shocks in protostellar outflows. <i>Astronomy and Astrophysics</i> , 2010, 518, L120.	5.1	79
45	<i>Herschel</i> /HIFI observations of high-J CO lines in the NGC 1333 low-mass star-forming region. <i>Astronomy and Astrophysics</i> , 2010, 521, L40.	5.1	47
46	<i>Herschel</i> /HIFI detections of hydrides towards AFGL 2591. <i>Astronomy and Astrophysics</i> , 2010, 521, L44.	5.1	36
47	Origin of the hot gas in low-mass protostars. <i>Astronomy and Astrophysics</i> , 2010, 518, L121.	5.1	89
48	Herschel-PACS spectroscopy of the intermediate mass protostar NGC7129 FIRS 2. <i>Astronomy and Astrophysics</i> , 2010, 518, L86.	5.1	21
49	<i>Herschel</i> /HIFI spectroscopy of the intermediate mass protostar NGC7129 FIRS2. <i>Astronomy and Astrophysics</i> , 2010, 521, L41.	5.1	18
50	<i>Herschel</i> observations of the hydroxyl radical (OH) in young stellar objects. <i>Astronomy and Astrophysics</i> , 2010, 521, L36.	5.1	32
51	The <i>Herschel</i> -Heterodyne Instrument for the Far-Infrared (HIFI). <i>Astronomy and Astrophysics</i> , 2010, 518, L6.	5.1	557
52	Polarisation observations of VY Canis Majoris H ₂ O 5 ₃ 2 ₄ → 4 ₃ 2 ₁ 620.701 GHz maser emission with HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L51.	5.1	12
53	ATLASCAL – The APEX telescope large area survey of the galaxy at 870 μm. <i>Astronomy and Astrophysics</i> , 2009, 504, 415-427.	5.1	577
54	A 1.3-THz Balanced Waveguide HEB Mixer for the APEX Telescope. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009, 57, 89-98.	4.6	139

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55	A submillimetre search for cold extended debris disks in the η Pictoris moving group. <i>Astronomy and Astrophysics</i> , 2009, 508, 1057-1065.	5.1	27
56	ϵ Eridani: a solar-type star with a planet and a dust belt. <i>Astronomy and Astrophysics</i> , 2008, 480, L47-L50.	5.1	26
57	A Swedish heterodyne facility instrument for the APEX telescope. <i>Astronomy and Astrophysics</i> , 2008, 490, 1157-1163.	5.1	128
58	Facility heterodyne receiver for the Atacama Pathfinder Experiment Telescope. , 2007, , .		10
59	SUPERCONDUCTING MICROSTRIP LINE MODEL STUDIES AT MILLIMETRE AND SUB-MILLIMETRE WAVES. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007, 27, 809-834.	0.6	21
60	A 0.8 mm heterodyne facility receiver for the APEX telescope. <i>Astronomy and Astrophysics</i> , 2006, 454, L17-L20.	5.1	38
61	A sideband separation SIS mixer for 275-370 GHz for the APEX Telescope. , 2006, 6275, 593.		4
62	APEX: the Atacama Pathfinder Experiment. , 2006, 6267, 389.		33
63	Heterodyne single-pixel facility instrumentation for the APEX Telescope. , 2006, , .		11
64	Micromachining approach in fabricating of THz waveguide components. <i>Microelectronics Journal</i> , 2005, 36, 683-686.	2.0	20
65	A 275-370 GHz Receiver Employing Novel Probe Structure. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005, 26, 867-879.	0.6	6
66	A sideband separating mixer for 85-115 GHz. <i>IEEE Microwave and Wireless Components Letters</i> , 2004, 14, 256-258.	3.2	15
67	A 275- to 370-GHz SIS mixer for the APEX telescope. , 2004, 5498, 140.		0
68	Performance of a sideband separating SIS mixer for 85-115 GHz. , 2004, , .		0
69	GaAs HEMT low-noise cryogenic amplifiers from C-band to X-band with 0.7-K/GHz noise temperature. <i>IEEE Microwave and Wireless Components Letters</i> , 2003, 13, 96-98.	3.2	14
70	Waveguide-to-microstrip transition with integrated bias-T. <i>IEEE Microwave and Wireless Components Letters</i> , 2003, 13, 262-264.	3.2	49