

Susanne F Wampfler

List of Publications by Year in descending order

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77
papers

3,844
citations

101543

36
h-index

128289

60
g-index

77
all docs

77
docs citations

77
times ranked

1862
citing authors

#	ARTICLE	IF	CITATIONS
1	The ALMA Protostellar Interferometric Line Survey (PILS). <i>Astronomy and Astrophysics</i> , 2016, 595, A117.	5.1	267
2	Water in star-forming regions with <i>Herschel</i> (WISH). <i>Astronomy and Astrophysics</i> , 2012, 542, A8.	5.1	207
3	Water in Star-forming Regions with the <i>Herschel</i> Space Observatory (WISH). I. Overview of Key Program and First Results. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 138-170.	3.1	206
4	Sulphur-bearing species in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S253-S273.	4.4	137
5	The ALMA-PILS survey: isotopic composition of oxygen-containing complex organic molecules toward IRAS 16293-2422B. <i>Astronomy and Astrophysics</i> , 2018, 620, A170.	5.1	124
6	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
7	The ALMA-PILS survey: First detections of deuterated formamide and deuterated isocyanic acid in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2016, 590, L6.	5.1	106
8	Water in star-forming regions with <i>Herschel</i> (WISH). <i>Astronomy and Astrophysics</i> , 2013, 552, A141.	5.1	98
9	Water in star-forming regions: physics and chemistry from clouds to disks as probed by <i>Herschel</i> spectroscopy. <i>Astronomy and Astrophysics</i> , 2021, 648, A24.	5.1	98
10	Origin of the hot gas in low-mass protostars. <i>Astronomy and Astrophysics</i> , 2010, 518, L121.	5.1	89
11	The ALMA-PILS survey: First detections of ethylene oxide, acetone and propanal toward the low-mass protostar IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2017, 597, A53.	5.1	89
12	Protostellar and cometary detections of organohalogens. <i>Nature Astronomy</i> , 2017, 1, 703-708.	10.1	89
13	The ALMA-PILS survey: inventory of complex organic molecules towards IRAS 16293-2422 A. <i>Astronomy and Astrophysics</i> , 2020, 635, A48.	5.1	87
14	The ALMA-PILS survey: detection of CH ₃ NCO towards the low-mass protostar IRAS 16293-2422 and laboratory constraints on its formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2219-2229.	4.4	83
15	Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system. <i>Astronomy and Astrophysics</i> , 2010, 521, L35.	5.1	80
16	Water cooling of shocks in protostellar outflows. <i>Astronomy and Astrophysics</i> , 2010, 518, L120.	5.1	79
17	Water in star-forming regions with <i>Herschel</i> : highly excited molecular emission from the NGC 1333 IRAS 4B outflow. <i>Astronomy and Astrophysics</i> , 2012, 540, A84.	5.1	79
18	Evidence of ammonium salts in comet 67P as explanation for the nitrogen depletion in cometary comae. <i>Nature Astronomy</i> , 2020, 4, 533-540.	10.1	79

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19	The ALMA-PILS survey: complex nitriles towards IRAS 16293â€“2422. <i>Astronomy and Astrophysics</i> , 2018, 616, A90.	5.1	77
20	Sensitive limits on the abundance of cold water vapor in the ρ Aurigae protoplanetary disk. <i>Astronomy and Astrophysics</i> , 2010, 521, L33.	5.1	76
21	The ALMA-PILS survey: the sulphur connection between protostars and comets: IRAS 16293â€“2422 B and 67P/Churyumovâ€“Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4949-4964.	4.4	74
22	Water in low-mass star-forming regions with <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2010, 521, L30.	5.1	72
23	The complete far-infrared and submillimeter spectrum of the Class 0 protostar Serpens SMM1 obtained with <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2012, 548, A77.	5.1	66
24	The ALMA-PILS Survey: Formaldehyde deuteration in warm gas on small scales toward IRAS 16293â€“2422 B. <i>Astronomy and Astrophysics</i> , 2018, 610, A54.	5.1	58
25	Detection of glycolaldehyde toward the solar-type protostar NGC 1333 IRAS2A. <i>Astronomy and Astrophysics</i> , 2015, 576, A5.	5.1	51
26	<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
27	Water vapor toward starless cores: The <i>Herschel</i> view. <i>Astronomy and Astrophysics</i> , 2010, 521, L29.	5.1	45
28	Water in massive star-forming regions: HIFI observations of W3 IRS5. <i>Astronomy and Astrophysics</i> , 2010, 521, L37.	5.1	44
29	First detection of cyanamide (NH_2CN) towards solar-type protostars. <i>Astronomy and Astrophysics</i> , 2018, 612, A107.	5.1	44
30	The ALMA-PILS survey: 3D modeling of the envelope, disks and dust filament of IRAS 16293â€“2422. <i>Astronomy and Astrophysics</i> , 2018, 612, A72.	5.1	43
31	The ALMA-PILS survey: Stringent limits on small amines and nitrogen-oxides towards IRAS 16293â€“2422B. <i>Astronomy and Astrophysics</i> , 2018, 619, A28.	5.1	42
32	Observations of nitrogen isotope fractionation in deeply embedded protostars. <i>Astronomy and Astrophysics</i> , 2014, 572, A24.	5.1	40
33	Volatile Species in Comet 67P/Churyumov-Gerasimenko: Investigating the Link from the ISM to the Terrestrial Planets. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1792-1811.	2.7	39
34	The ALMA-PILS survey: the first detection of doubly deuterated methyl formate (CHD_2OCHO) in the ISM. <i>Astronomy and Astrophysics</i> , 2019, 623, A69.	5.1	39
35	OH far-infrared emission from low- and intermediate-mass protostars surveyed with <i>Herschel</i> -PACS. <i>Astronomy and Astrophysics</i> , 2013, 552, A56.	5.1	39
36	The ALMA-PILS survey: First detection of nitrous acid (HONO) in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2019, 623, L13.	5.1	37

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37	<i>Herschel</i> /HIFI detections of hydrides towards AFGL 2591. <i>Astronomy and Astrophysics</i> , 2010, 521, L44.	5.1	36
38	Aliphatic and aromatic hydrocarbons in comet 67P/Churyumov-Gerasimenko seen by ROSINA. <i>Astronomy and Astrophysics</i> , 2019, 630, A31.	5.1	36
39	Observational evidence for dissociative shocks in the inner 100 AU of low-mass protostars using <i>Herschel</i> -HIFI. <i>Astronomy and Astrophysics</i> , 2013, 557, A23.	5.1	35
40	Shockingly low water abundances in <i>Herschel</i> /PACS observations of low-mass protostars in Perseus. <i>Astronomy and Astrophysics</i> , 2014, 572, A9.	5.1	35
41	Isotopic composition of CO ₂ in the coma of 67P/Churyumov-Gerasimenko measured with ROSINA/DFMS. <i>Astronomy and Astrophysics</i> , 2017, 605, A50.	5.1	35
42	Water abundance variations around high-mass protostars: HIFI observations of the DR21 region. <i>Astronomy and Astrophysics</i> , 2010, 518, L107.	5.1	32
43	<i>Herschel</i> observations of the hydroxyl radical (OH) in young stellar objects. <i>Astronomy and Astrophysics</i> , 2010, 521, L36.	5.1	32
44	Variations in H ₂ O ⁺ /H ₂ O ratios toward massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 521, L34.	5.1	31
45	The ALMA-PILS survey: first detection of methyl isocyanide (CH ₃ NC) in a solar-type protostar. <i>Astronomy and Astrophysics</i> , 2018, 617, A95.	5.1	31
46	The ALMA-PILS survey: first detection of the unsaturated 3-carbon molecules Propenal (C ₂ H ₃ CHO) and Propylene (C ₃ H ₆) towards IRAS 16293â€”2422 B. <i>Astronomy and Astrophysics</i> , 2021, 645, A53.	5.1	28
47	The ALMA-PILS survey: gas dynamics in IRAS 16293â”2422 and the connection between its two protostars. <i>Astronomy and Astrophysics</i> , 2019, 626, A93.	5.1	27
48	Warm gas towards young stellar objects in Corona Australis. <i>Astronomy and Astrophysics</i> , 2014, 565, A29.	5.1	26
49	Water in star-forming regions with <i>Herschel</i> (WISH). <i>Astronomy and Astrophysics</i> , 2016, 590, A105.	5.1	26
50	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 601, A123.	5.1	26
51	Origin of warm and hot gas emission from low-mass protostars: <i>Herschel</i> -HIFI observations of CO <i>J</i> = 16â€”15. <i>Astronomy and Astrophysics</i> , 2017, 605, A93.	5.1	25
52	Water abundances in high-mass protostellar envelopes: <i>Herschel</i> observations with HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L32.	5.1	23
53	First hyperfine resolved far-infrared OH spectrum from a star-forming region. <i>Astronomy and Astrophysics</i> , 2011, 531, L16.	5.1	23
54	¹⁶ O/ ¹⁸ O ratio in water in the coma of comet 67P/Churyumov-Gerasimenko measured with the Rosetta/ROSINA double-focusing mass spectrometer. <i>Astronomy and Astrophysics</i> , 2019, 630, A29.	5.1	23

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55	Linking interstellar and cometary O ₂ : a deep search for ¹⁶ O ¹⁸ O in the solar-type protostar IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2018, 618, A11.	5.1	22
56	Herschel-PACS spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2. <i>Astronomy and Astrophysics</i> , 2010, 518, L86.	5.1	21
57	CHO-Bearing Molecules in Comet 67P/Churyumov-Gerasimenko. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1854-1861.	2.7	20
58	Herschel/HIFI spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2. <i>Astronomy and Astrophysics</i> , 2010, 521, L41.	5.1	18
59	Sulphur isotope mass-independent fractionation observed in comet 67P/Churyumov-Gerasimenko by Rosetta/ROSINA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S787-S803.	4.4	16
60	High D/H ratios in water and alkanes in comet 67P/Churyumov-Gerasimenko measured with Rosetta/ROSINA DFMS. <i>Astronomy and Astrophysics</i> , 2022, 662, A69.	5.1	16
61	High-JCO emission in the Cepheus E protostellar outflow observed with SOFIA/GREAT. <i>Astronomy and Astrophysics</i> , 2012, 542, L9.	5.1	15
62	First in situ detection of the CN radical in comets and evidence for a distributed source. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2239-2248.	4.4	15
63	Identification and characterization of a new ensemble of cometary organic molecules. <i>Nature Communications</i> , 2022, 13, .	12.8	15
64	A divergent heritage for complex organics in Isheyev lithic clasts. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 119-148.	3.9	14
65	A comparison between the two lobes of comet 67P/Churyumov-Gerasimenko based on D/H ratios in H ₂ O measured with the Rosetta/ROSINA DFMS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4734-4740.	4.4	13
66	The ALMA-PILS survey: propyne (CH ₃ CCH) in IRAS 16293-2422. <i>Astronomy and Astrophysics</i> , 2019, 631, A137.	5.1	13
67	Molecule-dependent oxygen isotopic ratios in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5855-5862.	4.4	13
68	Cyanogen, cyanoacetylene, and acetonitrile in comet 67P and their relation to the cyano radical. <i>Astronomy and Astrophysics</i> , 2021, 647, A22.	5.1	13
69	Ammonium Salts as a Source of Small Molecules Observed with High-Resolution Electron-Impact Ionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5805-5814.	2.5	12
70	Neutral and Ionized Hydrides in Star-Forming Regions. Observations with Herschel/HIFI. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9840-9847.	2.5	9
71	Exploring the Origins of Earth's Nitrogen: Astronomical Observations of Nitrogen-bearing Organics in Protostellar Environments. <i>Astrophysical Journal</i> , 2018, 866, 156.	4.5	8
72	Detection of volatiles undergoing sublimation from 67P/Churyumov-Gerasimenko coma particles using ROSINA/COPS. <i>Astronomy and Astrophysics</i> , 2021, 645, A38.	5.1	7

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73	Challenging shock models with SOFIA OH observations in the high-mass star-forming region Cepheus A. <i>Astronomy and Astrophysics</i> , 2016, 585, A45.	5.1	5
74	Tracing FUV Radiation in the Embedded Phase of Star Formation. <i>EAS Publications Series</i> , 2011, 52, 239-244.	0.3	3
75	Detection of volatiles undergoing sublimation from 67P/Churyumov-Gerasimenko coma particles using ROSINA/COPS. <i>Astronomy and Astrophysics</i> , 2021, 651, A26.	5.1	3
76	Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2022, 658, A87.	5.1	1
77	WISHes coming true: water in low-mass star-forming regions with Herschel. <i>EAS Publications Series</i> , 2011, 52, 177-180.	0.3	0