Franz Kerschbaum

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Photodetector Array Camera and Spectrometer (PACS) onÂtheÂ <i>Herschel</i> Space Observatory. Astronomy and Astrophysics, 2010, 518, L2.	5.1	1,880
2	A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209.	3.7	249
3	A far-infrared survey of bow shocks and detached shells around AGB stars and red supergiants. Astronomy and Astrophysics, 2012, 537, A35.	5.1	149
4	Unexpectedly large mass loss during the thermal pulse cycle of the red giant star R Sculptoris. Nature, 2012, 490, 232-234.	27.8	127
5	Mass loss rates of a sample of irregular and semiregular M-type AGB-variables. Astronomy and Astrophysics, 2002, 391, 1053-1067.	5.1	127
6	"Thermal―SiOÂradio line emission towards M-type AGB stars: A probe of circumstellar dust formation and dynamics. Astronomy and Astrophysics, 2003, 411, 123-147.	5.1	123
7	Dust shells around carbon Mira variables. Monthly Notices of the Royal Astronomical Society, 1998, 293, 18-42.	4.4	114
8	MESS (Mass-loss of Evolved StarS), a <i>Herschel</i> key program. Astronomy and Astrophysics, 2011, 526, A162.	5.1	93
9	<i>SPICA</i> —A Large Cryogenic Infrared Space Telescope: Unveiling the Obscured Universe. Publications of the Astronomical Society of Australia, 2018, 35, .	3.4	90
10	Warm water vapour in the sooty outflow from a luminous carbon star. Nature, 2010, 467, 64-67.	27.8	87
11	Infrared optical properties of spinels. Astronomy and Astrophysics, 2001, 373, 1125-1138.	5.1	85
12	The enigmatic nature of the circumstellar envelope and bow shock surrounding Betelgeuse as revealed by <i>Herschel</i> . Astronomy and Astrophysics, 2012, 548, A113.	5.1	76
13	The wonderful complexity of the Mira AB system. Astronomy and Astrophysics, 2014, 570, L14.	5.1	62
14	Oxygen-rich semiregular and irregular variables. Astronomy and Astrophysics, 1999, 138, 299-322.	2.1	60
15	On the origin of the 19.5 \$mathsf{mu}\$m feature. Astronomy and Astrophysics, 2002, 393, L7-L10.	5.1	59
16	Infrared Properties of Solid Titanium Oxides: Exploring Potential Primary Dust Condensates. Astrophysical Journal, Supplement Series, 2003, 149, 437-445.	7.7	50
17	Long period variables detected by ISO in the Small Magellanic Cloud. Astronomy and Astrophysics, 2003, 406, 51-63.	5.1	49
18	An independent distance estimate to CW Leonis. Astronomy and Astrophysics, 2012, 543, L8.	5.1	44

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19	A census of AGB stars in Local Group galaxies. Astronomy and Astrophysics, 2003, 403, 93-103.	5.1	43
20	Large granulation cells on the surface of the giant star π1 Gruis. Nature, 2018, 553, 310-312.	27.8	42
21	The wind of W Hydrae as seen by <i>Herschel</i> . Astronomy and Astrophysics, 2014, 561, A5.	5.1	41
22	Detection of anhydrous hydrochloric acid, HCl, in IRC +10216 withÂtheÂ <i>Herschel</i> SPIRE and PACS spectrometers. Astronomy and Astrophysics, 2010, 518, L136.	5.1	39
23	Probing the inner wind of AGB stars: Interferometric observations of SiO millimetre line emission from the oxygen-rich stars R Dor and L2 Pup. Astronomy and Astrophysics, 2004, 422, 651-663.	5.1	37
24	The Photodetector Array Camera and Spectrometer (PACS) for the Herschel Space Observatory. Proceedings of SPIE, 2008, , .	0.8	35
25	<i>Herschel's</i> view into Mira's head. Astronomy and Astrophysics, 2011, 531, L4.	5.1	35
26	ALMA sub-mm maser and dust distribution of VY Canis Majoris. Astronomy and Astrophysics, 2014, 572, L9.	5.1	35
27	Discovery of multiple dust shells beyond 1 arcmin in the circumstellar envelope of IRC +10216 using <i>Herschel</i> /PACS. Astronomy and Astrophysics, 2011, 534, A1.	5.1	34
28	Multi-colour light variation of AGB stars observed with ISO. Astronomy and Astrophysics, 2001, 375, 527-538.	5.1	33
29	The detached dust shells of AQ Andromedae, U Antliae, and TT Cygni. Astronomy and Astrophysics, 2010, 518, L140.	5.1	32
30	<i>Herschel</i> PACS and SPIRE imaging of CW Leonis. Astronomy and Astrophysics, 2010, 518, L141.	5.1	32
31	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
32	The circumstellar envelope around the S-type AGB star W Aql. Astronomy and Astrophysics, 2017, 605, A126.	5.1	31
33	Large-scale environments of binary AGB stars probed byÂ <i>Herschel</i> . Astronomy and Astrophysics, 2013, 549, A69.	5.1	30
34	Silicon in the dust formation zone of IRC +10216. Astronomy and Astrophysics, 2010, 518, L143.	5.1	29
35	The evolutionary state of Miras with changing pulsation periods. Astronomy and Astrophysics, 2011, 531, A88.	5.1	29
36	The SAFARI imaging spectrometer for the SPICA space observatory. Proceedings of SPIE, 2012, , .	0.8	29

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37	The wind of W Hydrae as seen by <i>Herschel</i> . Astronomy and Astrophysics, 2014, 570, A67.	5.1	29
38	A detailed view of the gas shell around R Sculptoris with ALMA. Astronomy and Astrophysics, 2016, 586, A5.	5.1	28
39	DEATHSTAR: Nearby AGB stars with the Atacama Compact Array. Astronomy and Astrophysics, 2020, 640, A133.	5.1	27
40	Lunar phases and survival of breast cancer patients – a statistical analysis of 3,757 cases. Breast Cancer Research and Treatment, 2001, 70, 131-135.	2.5	26
41	PACS and SPIRE spectroscopy of the red supergiant VY CMa. Astronomy and Astrophysics, 2010, 518, L145.	5.1	25
42	Reduction of the maximum mass-loss rate of OH/IR stars due to unnoticed binary interaction. Nature Astronomy, 2019, 3, 408-415.	10.1	24
43	XÂHerculis and TXÂPiscium: two cases of ISM interaction with stellar winds observed by <i>Herschel</i> . Astronomy and Astrophysics, 2011, 532, A135.	5.1	23
44	The extended molecular envelope of the asymptotic giant branch star <i>Ï€</i> ¹ Gruis as seen by ALMA. Astronomy and Astrophysics, 2017, 605, A28.	5.1	23
45	Bolometric corrections for cool giants based on near-infrared photometry. Astronomy and Astrophysics, 2010, 524, A87.	5.1	23
46	The ALMA detection of CO rotational line emission in AGB stars in the Large Magellanic Cloud. Astronomy and Astrophysics, 2016, 596, A50.	5.1	22
47	H2O in stellar atmospheres. Astronomy and Astrophysics, 2002, 395, 915-927.	5.1	21
48	Large-scale environments of binary AGB stars probed by <i>Herschel</i> . Astronomy and Astrophysics, 2014, 570, A113.	5.1	21
49	A census of AGB stars in Local Group galaxies. Astronomy and Astrophysics, 2001, 367, 557-565.	5.1	21
50	MATISSE: perspective of imaging in the mid-infrared at the VLTI. Proceedings of SPIE, 2008, , .	0.8	20
51	<i>Herschel</i> /PACS observations of the 69 <i>أ1/4</i> m band of crystalline olivine around evolved stars. Astronomy and Astrophysics, 2014, 565, A109.	5.1	20
52	Irregular variables of type Lb. New JHKL'M-photometry for 160 stars. Astronomy and Astrophysics, 1996, 118, 397-405.	2.1	20
53	An extensive \$Delta a\$-photometric survey of southern B and A type bright stars. Astronomy and Astrophysics, 1998, 130, 455-464.	2.1	20
54	Far-infrared spectra of hydrous silicates at low temperatures. Astronomy and Astrophysics, 2008, 492, 117-125.	5.1	18

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55	<i>Herschel</i> observations of extreme OH/IR stars. Astronomy and Astrophysics, 2015, 578, A115.	5.1	18
56	Long-period variables in NGC 147 and NGC 185. Astronomy and Astrophysics, 2011, 532, A78.	5.1	17
57	The VLTI/MIDI view on the inner mass loss of evolved stars from the <i>Herschel</i> MESS sample. Astronomy and Astrophysics, 2017, 600, A136.	5.1	16
58	A far-infrared survey of bow shocks and detached shells around AGB stars and red supergiants (<i>Corrigendum</i>). Astronomy and Astrophysics, 2012, 543, C1.	5.1	16
59	Constraints on the H ₂ O formation mechanism in the wind of carbon-rich AGB stars. Astronomy and Astrophysics, 2016, 588, A124.	5.1	15
60	Rings and filaments: The remarkable detached CO shell of U Antliae. Astronomy and Astrophysics, 2017, 605, A116.	5.1	15
61	<i>Herschel</i> spectral mapping of the Helix nebula (NGC 7293). Astronomy and Astrophysics, 2014, 566, A78.	5.1	14
62	The extended molecular envelope of the asymptotic giant branch star <i>Ï€</i> ¹ Gruis as seen by ALMA. Astronomy and Astrophysics, 2020, 633, A13.	5.1	13
63	ALMA observations of the variable ¹² CO/ ¹³ CO ratio around the asymptotic giant branch star R Sculptoris. Astronomy and Astrophysics, 2013, 556, L1.	5.1	13
64	The photodetector array camera and spectrometer (PACS) for the Herschel Space Observatory. , 2006, 6265, 69.		12
65	SAFARI new and improved: extending the capabilities of SPICA's imaging spectrometer. Proceedings of SPIE, 2014, , .	0.8	12
66	ALMA observations of the "fresh―carbon-rich AGB star TX Piscium. Astronomy and Astrophysics, 2019, 621, A50.	5.1	12
67	Near-infrared variability of a sample of galactic carbon Miras. Astronomy and Astrophysics, 2006, 460, 539-545.	5.1	10
68	The geometry of the close environment of SV Piscium as probed by VLTI/MIDI. Astronomy and Astrophysics, 2012, 541, A164.	5.1	10
69	Dusty shells surrounding the carbon variables S Scuti and RT Capricorni. Astronomy and Astrophysics, 2014, 566, A69.	5.1	10
70	A census of AGB stars in Local Group galaxies. Astronomy and Astrophysics, 2004, 427, 613-619.	5.1	10
71	Molecular line study of the S-type AGB star W Aquilae. Astronomy and Astrophysics, 2018, 617, A23.	5.1	9
72	Modelling the carbon AGB star R Sculptoris. Astronomy and Astrophysics, 2018, 614, A17.	5.1	9

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73	The photodetector array camera and spectrometer (PACS) for the Herschel Space Observatory. , 2004, ,		8
74	Infrared spectra of C-type variables with ISO. Symposium - International Astronomical Union, 1999, 191, 181-186.	0.1	5
75	On-board Data Processing to Lower Bandwidth Requirements on an Infrared Astronomy Satellite: Case of Herschel-PACS Camera. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	5
76	Fitting of dust spectra with genetic algorithms. Astronomy and Astrophysics, 2010, 516, A45.	5.1	4
77	Spectro-Imaging of the Asymmetric Inner Molecular and Dust Shell Region of the Mira Variable W Hya with MIDI/VLTI ¹ . Publications of the Astronomical Society of the Pacific, 2015, 127, 732-741.	3.1	4
78	DEATHSTAR: nearby AGB stars with the Atacama Compact Array. Astronomy and Astrophysics, 2021, 653, A53.	5.1	4
79	Dust Features of Visually Bright AGB Variables as Seen by ISO and IRAS. Astrophysics and Space Science, 1997, 251, 211-214.	1.4	3
80	The Pulsation of M-type Miras: Multi-Epoch ISO-SWS Observations and Dynamical Models. International Astronomical Union Colloquium, 2002, 185, 538-541.	0.1	3
81	Otto von Littrow and his spectrograph. Astronomische Nachrichten, 2009, 330, 574-577.	1.2	3
82	Improving Herschel imaging datasets. Proceedings of SPIE, 2014, , .	0.8	3
83	WFI electronics and on-board data processing. Proceedings of SPIE, 2016, , .	0.8	3
84	The design of the instrument control unit and its role within the data processing system of the ESA PLATO Mission. , 2018, , .		3
85	HERSCHEL/PACS on-board reduction flight software. Proceedings of SPIE, 2008, , .	0.8	2
86	O-rich SR and Mira variables in DENIS. Astrophysics and Space Science, 1994, 217, 137-138.	1.4	1
87	Synthetic Spectra of Long-Period Variables: A First Comparison with ISO Observations. Astrophysics and Space Science, 1997, 251, 243-246.	1.4	1
88	Dust Shells Around Carbon Mira Variables. Astrophysics and Space Science, 1997, 251, 89-96.	1.4	1
89	Atmospheric Structure and Mass Loss of O-rich Long Period Variables. A Confrontation of Models with ISO-SWS Observations. Symposium - International Astronomical Union, 1999, 191, 169-174.	0.1	1
90	Visual and Near-Infrared Photometry of Nearby Dwarf Spheroidals. Symposium - International Astronomical Union, 1999, 192, 455-458.	0.1	1

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91	<title>Data reduction concept for FIRST/PACS</title> ., 2000, , .		1
92	Gas and Dust Mass Loss of O-rich AGB-stars. , 0, , 171-189.		1
93	Herschel/PACS on-board reduction/compression software implementation. , 2004, , .		1
94	The Exoplanet Characterization Observatory (EChO): performance model <i>EclipseSim</i> and applications. Proceedings of SPIE, 2012, , .	0.8	1
95	On-board target acquisition for CHEOPS. Proceedings of SPIE, 2016, , .	0.8	1
96	Outburst OH maser activity in the envelopes of S Persei and VX Sagittarii. Astronomy and Astrophysics, 2010, 524, A99.	5.1	1
97	Dusty Giants going SAFARI. , 2009, , .		1
98	SAFARI: Imaging Spectrometer for the SPICA space observatory. , 2013, , .		1
99	Extended view on the dust shells around two carbon stars. Astronomy and Astrophysics, 2020, 644, A66.	5.1	1
100	CO observations of semiregular variables. Astrophysics and Space Science, 1995, 224, 499-500.	1.4	0
101	On the Nature of M stars with a 60 microns Excess. International Astronomical Union Colloquium, 1995, 155, 425-426.	0.1	Ο
102	Blackbody Fits of Semiregular Variables. International Astronomical Union Colloquium, 1995, 155, 407-408.	0.1	0
103	Molecular Features in ISO-SWS Spectra of O-Rich Long-Period Variables. Astrophysics and Space Science, 1997, 255, 255-256.	1.4	0
104	Dust Emission from AGB Stars ISO-SWS Observations of Long-Period Variables. Astrophysics and Space Science, 1997, 255, 445-446.	1.4	0
105	ISOCAM and DENIS Survey of 0.5 square degrees in the Bar of the LMC. Detection of the whole TP-AGB Star Population. Symposium - International Astronomical Union, 1999, 191, 561-566.	0.1	0
106	<title>Evaluation of FIRST/PACS data compression on ISO data</title> ., 2000, 4013, 253.		0
107	The Shape of Silicate Features in Semiregular and Mira Variables. Symposium - International Astronomical Union, 2000, 177, 539-539.	0.1	0
108	Comparison of C-Rich Mira, Semiregular, and Irregular Variables. Symposium - International Astronomical Union, 2000, 177, 547-547.	0.1	0

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109	A census of AGB stars in the Milky Way and M31 subgroups of dwarf-spheroidal galaxies. International Astronomical Union Colloquium, 2004, 193, 153-157.	0.1	0
110	A feasibility study of on-board data compression for infrared cameras of space observatories. , 2004, , .		0
111	Optics and the nature of light illustrated in the rare book collection of the Astronomy Library in Vienna. Astronomische Nachrichten, 2009, 330, 540-543.	1.2	Ο
112	Variable Red Giants. Proceedings of the International Astronomical Union, 2011, 7, 111-116.	0.0	0
113	LPVs in NGC 147 and NGC 185. EAS Publications Series, 2011, 48, 33-34.	0.3	0
114	To be or not to be asymmetric? VLTI and the mass loss geometry of red giants. Proceedings of SPIE, 2012, , .	0.8	0
115	EChO fine guidance sensor design and architecture. , 2014, , .		Ο
116	BASKET on-board software library. Proceedings of SPIE, 2014, , .	0.8	0
117	ALMA spectrum of the extreme OH/IR star OH 26.5+0.6. Proceedings of the International Astronomical Union, 2018, 14, 436-437.	0.0	Ο
118	The discovery of an asymmetric detached shell around the "fresh―carbon AGB star TX Psc. Proceedings of the International Astronomical Union, 2018, 14, 360-361.	0.0	0
119	Constraining convection across the AGB with high-angular-resolution observations. Proceedings of the International Astronomical Union, 2018, 14, 27-30.	0.0	Ο
120	Dust properties in the circumstellar environment of carbon stars. Proceedings of the International Astronomical Union, 2018, 14, 466-467.	0.0	0
121	LPVs as Possible Distance Indicators in NGC147 and NGC185. Thirty Years of Astronomical Discovery With UKIRT, 2012, , 169-172.	0.3	Ο
122	Near IR-Photometry of Semiregular Variables. , 1993, , 326-326.		0
123	Infrared Properties of Stars on the Asymptotic Giant Branch. Semiregular Variable Stars of Types SRa and SRb. Publications of the Astronomical Society of the Pacific, 1993, 105, 1496.	3.1	Ο
124	Dust Features of Visually Bright AGB Variables as Seen by ISO and IRAS. , 1997, , 211-214.		0
125	Molecular Features in ISO-SWS Spectra of O-Rich Long-Period Variables. , 1998, , 255-256.		0
126	Herschel and the invisible end of the rainbow. Proceedings of the International Astronomical Union, 2019, 15, 181-185.	0.0	0