Denis DefrÃ"re

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Atmospheric characterization of terrestrial exoplanets in the mid-infrared: biosignatures, habitability, and diversity. Experimental Astronomy, 2022, 54, 1197-1221.	3.7	21
2	Large Binocular Telescope Search for Companions and Substructures in the (Pre)transitional Disk of AB Aurigae. Astrophysical Journal, 2022, 926, 71.	4.5	2
3	Detection of Near-infrared Water Ice at the Surface of the (Pre)Transitional Disk of AB Aur: Informing Icy Grain Abundance, Composition, and Size. Astronomical Journal, 2022, 163, 145.	4.7	9
4	Unveiling exozodiacal light. Physics Today, 2022, 75, 46-52.	0.3	2
5	The HOSTS Survey: Evidence for an Extended Dust Disk and Constraints on the Presence of Giant Planets in the Habitable Zone of β Leo. Astronomical Journal, 2021, 161, 186.	4.7	5
6	A near-infrared interferometric survey of debris-disk stars. Astronomy and Astrophysics, 2021, 651, A45.	5.1	9
7	Resolving Io's Volcanoes from a Mutual Event Observation at the Large Binocular Telescope. Planetary Science Journal, 2021, 2, 227.	3.6	5
8	Keck/NIRC2 L'-band Imaging of Jovian-mass Accreting Protoplanets around PDS 70. Astronomical Journal, 2020, 159, 263.	4.7	51
9	The HOSTS Survey for Exozodiacal Dust: Observational Results from the Complete Survey. Astronomical Journal, 2020, 159, 177.	4.7	57
10	Implementing multiwavelength fringe tracking for the Large Binocular Telescope Interferometer's phase sensor, PHASECam. Journal of Astronomical Telescopes, Instruments, and Systems, 2020, 6, 1.	1.8	2
11	Exoplanet detection yield of a space-based Bracewell interferometer from small to medium satellites. Journal of Astronomical Telescopes, Instruments, and Systems, 2020, 6, .	1.8	5
12	Overview and prospects of the LBTI beyond the completed HOSTS survey. , 2020, , .		2
13	Towards the development of mid-infrared integrated optics in the renewed context of high-contrast interferometry. , 2020, , .		Ο
14	Performance study of interferometric small-sats to detect exoplanets: updated exoplanet yield and application to nearby exoplanets. , 2020, , .		0
15	Review and scientific prospects of high-contrast optical stellar interferometry. , 2020, , .		Ο
16	MARVEL, a four-telescope array for high-precision radial-velocity monitoring. , 2020, , .		0
17	Preparatory studies for a mid-infrared nulling interferometry experiment at cryogenic conditions. , 2020, , .		0
18	Optimizing MARVEL for the radial velocity follow up of TESS and PLATO transiting exoplanets. , 2020, , .		0

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19	Deep Exploration of ϵ Eridani with Keck Ms-band Vortex Coronagraphy and Radial Velocities: Mass and Orbital Parameters of the Giant Exoplanet*. Astronomical Journal, 2019, 157, 33.	4.7	53
20	Searching for Atmospheric Bioindicators in Planets around the Two Nearby Stars, Proxima Centauri and Epsilon Eridani—Test Cases for Retrieval of Atmospheric Gases with Infrared Spectroscopy. Astrobiology, 2019, 19, 797-810.	3.0	6
21	Constraints on HD 113337 fundamental parameters and planetary system. Astronomy and Astrophysics, 2019, 627, A44.	5.1	7
22	Development of a space-based nulling interferometer to detect and characterize exoplanets. , 2019, , .		0
23	A recent history of science cases for optical interferometry. Experimental Astronomy, 2018, 46, 389-399.	3.7	2
24	Prospects for the characterisation of exo-zodiacal dust with the VLTI. Experimental Astronomy, 2018, 46, 401-411.	3.7	4
25	Interferometric Space Missions for Exoplanet Science: Legacy of Darwin/TPF. , 2018, , 1229-1255.		2
26	The HOSTS Survey—Exozodiacal Dust Measurements for 30 Stars. Astronomical Journal, 2018, 155, 194.	4.7	78
27	Space-based infrared interferometry to study exoplanetary atmospheres. Experimental Astronomy, 2018, 46, 543-560.	3.7	25
28	The LEECH Exoplanet Imaging Survey: Limits on Planet Occurrence Rates under Conservative Assumptions. Astronomical Journal, 2018, 156, 286.	4.7	44
29	The path towards high-contrast imaging with the VLTI: the Hi-5 project. Experimental Astronomy, 2018, 46, 475-495.	3.7	28
30	Discovery of a point-like source and a third spiral arm in the transition disk around the Herbig Ae star MWC 758. Astronomy and Astrophysics, 2018, 611, A74.	5.1	70
31	An H-band Vector Vortex Coronagraph for the Subaru Coronagraphic Extreme Adaptive Optics System. Publications of the Astronomical Society of the Pacific, 2018, 130, 035001.	3.1	10
32	Exoplanet science with a space-based mid-infrared nulling interferometer. , 2018, , .		21
33	Characterizing the atmosphere of Proxima b with a space-based mid-infrared nulling interferometer. , 2018, , .		2
34	The HOSTS survey for exo-zodiacal dust: preliminary results and future prospects. , 2018, , .		6
35	Image-plane fringe tracker for adaptive-optics assisted long baseline interferometry. , 2018, , .		2

Planet formation imager: project update. , 2018, , .

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37	A two-band approach to \hat{nl} phase error corrections with LBTI's PHASECam. , 2018, , .		2
38	Hi-5: a potential high-contrast thermal near-infrared imager for the VLTI. , 2018, , .		0
39	Multi-phase volcanic resurfacing at Loki Patera on Io. Nature, 2017, 545, 199-202.	27.8	26
40	VIP: Vortex Image Processing Package for High-contrast Direct Imaging. Astronomical Journal, 2017, 154, 7.	4.7	129
41	The LBTI Fizeau imager – II. Sensitivity of the PSF and the MTF to adaptive optics errors and to piston errors. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3288-3297.	4.4	5
42	THE W. M. KECK OBSERVATORY INFRARED VORTEX CORONAGRAPH AND A FIRST IMAGE OF HIP 79124 B. Astronomical Journal, 2017, 153, 43.	4.7	74
43	CHARACTERIZATION OF THE INNER DISK AROUND HD 141569 A FROM KECK/NIRC2 L-BAND VORTEX CORONAGRAPHY. Astronomical Journal, 2017, 153, 44.	4.7	59
44	The LBTI Fizeau imager – I. Fundamental gain in high-contrast imaging. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2544-2553.	4.4	4
45	Delay Compensation for Real Time Disturbance Estimation at Extremely Large Telescopes. IEEE Transactions on Control Systems Technology, 2017, 25, 1384-1393.	5.2	20
46	Exozodiacal clouds: hot and warm dust around main sequence stars. The Astronomical Review, 2017, 13, 69-111.	4.0	28
47	Interferometric Space Missions for Exoplanet Science: Legacy of Darwin/TPF. , 2017, , 1-27.		1
48	TWO SMALL TEMPERATE PLANETS TRANSITING NEARBY M DWARFS IN K2 CAMPAIGNS 0 AND 1* †‡. Astrophysical Journal, 2016, 818, 87.	4.5	47
49	Precise radial velocities of giant stars. Astronomy and Astrophysics, 2016, 595, A55.	5.1	18
50	197 CANDIDATES AND 104 VALIDATED PLANETS IN K2's FIRST FIVE FIELDS. Astrophysical Journal, Supplement Series, 2016, 226, 7.	7.7	177
51	The path to interferometry in space. Proceedings of SPIE, 2016, , .	0.8	2
52	Imaging protoplanets: observing transition disks with non-redundant masking. Proceedings of SPIE, 2016, , .	0.8	10
53	Making high-accuracy null depth measurements for the LBTI exozodi survey. Proceedings of SPIE, 2016, ,	0.8	10
54	Overview of LBTI: a multipurpose facility for high spatial resolution observations. Proceedings of SPIE, 2016, , .	0.8	37

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55	Simultaneous water vapor and dry air optical path length measurements and compensation with the large binocular telescope interferometer. Proceedings of SPIE, 2016, , .	0.8	6
56	Three years of harvest with the vector vortex coronagraph in the thermal infrared. Proceedings of SPIE, 2016, , .	0.8	37
57	Enabling the direct detection of earth-sized exoplanets with the LBTI HOSTS project: a progress report. Proceedings of SPIE, 2016, , .	0.8	3
58	THE INNER DEBRIS STRUCTURE IN THE FOMALHAUT PLANETARY SYSTEM*. Astrophysical Journal, 2016, 818, 45.	4.5	40
59	Commissioning and first light results of an L'-band vortex coronagraph with the Keck II adaptive optics NIRC2 science instrument. Proceedings of SPIE, 2016, , .	0.8	6
60	THE LEECH EXOPLANET IMAGING SURVEY: CHARACTERIZATION OF THE COLDEST DIRECTLY IMAGED EXOPLANET, GJ 504 b, AND EVIDENCE FOR SUPERSTELLAR METALLICITY*. Astrophysical Journal, 2016, 817, 166.	4.5	68
61	OVMS-plus at the LBT: disturbance compensation simplified. Proceedings of SPIE, 2016, , .	0.8	8
62	NULLING DATA REDUCTION AND ON-SKY PERFORMANCE OF THE LARGE BINOCULAR TELESCOPE INTERFEROMETER. Astrophysical Journal, 2016, 824, 66.	4.5	70
63	MODELS OF THE η CORVI DEBRIS DISK FROM THE KECK INTERFEROMETER, SPITZER, AND HERSCHEL. Astrophysical Journal, 2016, 817, 165.	4.5	16
64	THE LEECH EXOPLANET IMAGING SURVEY: ORBIT AND COMPONENT MASSES OF THE INTERMEDIATE-AGE, LATE-TYPE BINARY NO UMa* â€. Astrophysical Journal, 2016, 818, 1.	4.5	41
65	A near-infrared interferometric survey of debris-disc stars. Astronomy and Astrophysics, 2016, 595, A44.	5.1	31
66	HUNTING FOR PLANETS IN THE HL TAU DISK. Astrophysical Journal Letters, 2015, 812, L38.	8.3	52
67	The LEECH Exoplanet Imaging Survey. Further constraints on the planet architecture of the HR 8799 system. Astronomy and Astrophysics, 2015, 576, A133.	5.1	50
68	Exoplanet science with the LBTI: instrument status and plans. Proceedings of SPIE, 2015, , .	0.8	2
69	EXO-ZODI MODELING FOR THE LARGE BINOCULAR TELESCOPE INTERFEROMETER. Astrophysical Journal, Supplement Series, 2015, 216, 23.	7.7	27
70	FIRST-LIGHT LBT NULLING INTERFEROMETRIC OBSERVATIONS: WARM EXOZODIACAL DUST RESOLVED WITHIN A FEW AU OF η Crv. Astrophysical Journal, 2015, 799, 42.	4.5	42
71	TARGET SELECTION FOR THE LBTI EXOZODI KEY SCIENCE PROGRAM. Astrophysical Journal, Supplement Series, 2015, 216, 24.	7.7	23
72	IMPACT OF <i>η</i> _{Earth} ON THE CAPABILITIES OF AFFORDABLE SPACE MISSIONS TO DETECT BIOSIGNATURES ON EXTRASOLAR PLANETS. Astrophysical Journal, 2015, 808, 194.	4.5	18

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73	SPATIALLY RESOLVED M-BAND EMISSION FROM IO'S LOKI PATERA–FIZEAU IMAGING AT THE 22.8 m LBT. Astronomical Journal, 2015, 149, 175.	4.7	20
74	First light with ALES: A 2-5 micron adaptive optics Integral Field Spectrograph for the LBT. Proceedings of SPIE, 2015, , .	0.8	17
75	Accreting protoplanets in the LkCa 15 transition disk. Nature, 2015, 527, 342-344.	27.8	249
76	The LEECH Exoplanet Imaging Survey. Further constraints on the planet architecture of the HR 8799 system <i>(Corrigendum)</i> . Astronomy and Astrophysics, 2015, 579, C2.	5.1	10
77	A near-infrared interferometric survey of debris-disk stars. Astronomy and Astrophysics, 2014, 570, A128.	5.1	73
78	CHARACTERIZATION OF THE BENCHMARK BINARY NLTT 33370 [,] . Astrophysical Journal, 2014, 783, 27.	4.5	20
79	Unveiling new stellar companions from the PIONIER exozodi survey. , 2014, , .		0
80	Large binocular telescope interferometer adaptive optics: on-sky performance and lessons learned. Proceedings of SPIE, 2014, , .	0.8	20
81	L'-band AGPM vector vortex coronagraph's first light on LBTI/LMIRCam. Proceedings of SPIE, 2014, , .	0.8	12
82	The LBTI hunt for observable signatures of terrestrial systems (HOSTS) survey: a key NASA science program on the road to exoplanet imaging missions. Proceedings of SPIE, 2014, , .	0.8	4
83	Co-phasing the Large Binocular Telescope: status and performance of LBTI/PHASECam. Proceedings of SPIE, 2014, , .	0.8	10
84	High contrast imaging at the LBT: the LEECH exoplanet imaging survey. Proceedings of SPIE, 2014, , .	0.8	11
85	Fizeau interferometric imaging of Io volcanism with LBTI/LMIRcam. Proceedings of SPIE, 2014, , .	0.8	9
86	Commissioning the LBTI for use as a nulling interferometer and coherent imager. , 2014, , .		11
87	The VORTEX project: first results and perspectives. Proceedings of SPIE, 2014, , .	0.8	2
88	MID-INFRARED HIGH-CONTRAST IMAGING OF HD 114174 B: AN APPARENT AGE DISCREPANCY IN A "SIRIUS-L BINARY SYSTEM. Astrophysical Journal Letters, 2014, 783, L25.	IKĘ― 8.3	15
89	DOES THE DEBRIS DISK AROUND HD 32297 CONTAIN COMETARY GRAINS?,. Astrophysical Journal, 2014, 783, 21.	4.5	57
90	DIRECTLY IMAGED L-T TRANSITION EXOPLANETS IN THE MID-INFRARED [,] . Astrophysical Journal, 2014, 792, 17.	4.5	112

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91	CONSTRAINING THE EXOZODIACAL LUMINOSITY FUNCTION OF MAIN-SEQUENCE STARS: COMPLETE RESULTS FROM THE KECK NULLER MID-INFRARED SURVEYS. Astrophysical Journal, 2014, 797, 119.	4.5	69
92	Characterization of the gaseous companion <i>κ</i> Andromedae b. Astronomy and Astrophysics, 2014, 562, A111.	5.1	44
93	Searching for faint companions with VLTI/PIONIER. Astronomy and Astrophysics, 2014, 570, A127.	5.1	22
94	Operation and performance of the mid-infrared camera, NOMIC, on the Large Binocular Telescope. Proceedings of SPIE, 2014, , .	0.8	11
95	Parasitic interference in nulling interferometry. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1286-1295.	4.4	0
96	The Large Binocular Telescope Interferometer & Adaptive Optics System: On-sky Performance and Results. Proceedings of the International Astronomical Union, 2013, 8, 26-27.	0.0	1
97	Unraveling the Mystery of Exozodiacal Dust. Proceedings of the International Astronomical Union, 2013, 8, 338-339.	0.0	1
98	LEECH: A 100 Night Exoplanet Imaging Survey at the LBT. Proceedings of the International Astronomical Union, 2013, 8, 70-71.	0.0	2
99	Searching for Faint Exozodiacal Disks: Keck Results and LBTI Status. Proceedings of the International Astronomical Union, 2013, 8, 332-333.	0.0	0
100	An interferometric study of the Fomalhaut inner debris disk. Astronomy and Astrophysics, 2013, 555, A146.	5.1	54
101	A near-infrared interferometric survey of debris-disc stars. Astronomy and Astrophysics, 2013, 555, A104.	5.1	94
102	Keck Interferometer Nuller science highlights. Proceedings of SPIE, 2012, , .	0.8	0
103	Parasitic interference in classical and nulling stellar interferometry. Proceedings of SPIE, 2012, , .	0.8	0
104	Studying hot exozodiacal dust with near-infrared interferometry. , 2012, , .		1
105	Direct imaging of exoEarths embedded in clumpy debris disks. Proceedings of SPIE, 2012, , .	0.8	12
106	Hot circumstellar material resolved around <i>β</i> ÂPic with VLTI/PIONIER. Astronomy and Astrophysics, 2012, 546, L9.	5.1	31
107	Hot exozodiacal dust resolved around Vega with IOTA/IONIC. Astronomy and Astrophysics, 2011, 534, A5.	5.1	49
108	Nulling interferometry: impact of exozodiacal clouds on the performance of future life-finding space missions. Astronomy and Astrophysics, 2010, 509, A9.	5.1	49

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#	Article	IF	CITATIONS
109	Exozodiacal discs with ALADDIN: how faint can we detect them?. EAS Publications Series, 2010, 40, 257-262.	0.3	0
110	Direct imaging of Earth-like planets: why we care about exozodis. Proceedings of SPIE, 2010, , .	0.8	2
111	Potential of balloon payloads for in flight validation of direct and nulling interferometry concepts. Proceedings of SPIE, 2010, , .	0.8	1
112	The planar optics phase sensor: a study for the VLTI 2nd generation fringe tracker. , 2010, , .		1
113	The Search for Worlds Like Our Own. Astrobiology, 2010, 10, 5-17.	3.0	16
114	Darwin—an experimental astronomy mission to search for extrasolar planets. Experimental Astronomy, 2009, 23, 435-461.	3.7	74
115	PEGASE, an infrared interferometer to study stellar environments and low mass companions around nearby stars. Experimental Astronomy, 2009, 23, 403-434.	3.7	21
116	<i>Darwin</i> —A Mission to Detect and Search for Life on Extrasolar Planets. Astrobiology, 2009, 9, 1-22.	3.0	112
117	Polar-interferometry: what can be learnt from the IOTA/IONIC experiment. Proceedings of SPIE, 2008, , .	0.8	3
118	Earth-like planets: science performance predictions for future nulling interferometry missions. , 2008, , .		1
119	Science case for 1 mas spectro-imagining in the near-infrared. , 2008, , .		0
120	High dynamic range interferometric observations of exozodiacal discs: performance comparison between ground, space, and Antarctica. Proceedings of SPIE, 2008, , .	0.8	0
121	Nulling interferometry: performance comparison between space and ground-based sites for exozodiacal disc detection. Astronomy and Astrophysics, 2008, 490, 435-445.	5.1	13
122	A near-infrared interferometric survey of debris disc stars. Astronomy and Astrophysics, 2008, 487, 1041-1054.	5.1	53
123	Pioneer Anomaly: What Can We Learn from LISA?. Astrophysics and Space Science Library, 2008, , 605-629.	2.7	0
124	Potential of space-based infrared Bracewell interferometers for planet detection. , 2007, , .		1
125	Fresnel rhombs as achromatic phase shifters for infrared nulling interferometry. Optics Express, 2007, 15, 12850.	3.4	29
126	A near-infrared interferometric survey of debris disk stars. Astronomy and Astrophysics, 2007, 475, 243-250.	5.1	95

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127	The 4m international liquid mirror telescope (ILMT). , 2006, , .		4