

Kjetil Dohlen

List of Publications by Year in descending order

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126907

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#	ARTICLE	IF	CITATIONS
1	Calibration of quasi-static aberrations in exoplanet direct-imaging instruments with a Zernike phase-mask sensor. <i>Astronomy and Astrophysics</i> , 2022, 660, A140.	5.1	6
2	Imaging low-mass planets within the habitable zone of $\hat{\iota}$ Centauri. <i>Nature Communications</i> , 2021, 12, 922.	12.8	29
3	Direct characterization of young giant exoplanets at high spectral resolution by coupling SPHERE and CRRES+. <i>Astronomy and Astrophysics</i> , 2021, 646, A150.	5.1	24
4	HD 142527: quantitative disk polarimetry with SPHERE. <i>Astronomy and Astrophysics</i> , 2021, 648, A110.	5.1	19
5	Calibration of residual aberrations in exoplanet imagers with large numbers of degrees of freedom. <i>Astronomy and Astrophysics</i> , 2021, 649, A170.	5.1	6
6	The SPHERE infrared survey for exoplanets (SHINE). <i>Astronomy and Astrophysics</i> , 2021, 651, A70.	5.1	39
7	The SPHERE infrared survey for exoplanets (SHINE). <i>Astronomy and Astrophysics</i> , 2021, 651, A71.	5.1	47
8	The SPHERE infrared survey for exoplanets (SHINE). <i>Astronomy and Astrophysics</i> , 2021, 651, A72.	5.1	117
9	Wind-driven halo in high-contrast images. <i>Astronomy and Astrophysics</i> , 2020, 638, A98.	5.1	25
10	Polarimetric imaging mode of VLT/SPHERE/IRDIS. <i>Astronomy and Astrophysics</i> , 2020, 633, A63.	5.1	67
11	Polarimetric imaging mode of VLT/SPHERE/IRDIS. <i>Astronomy and Astrophysics</i> , 2020, 633, A64.	5.1	81
12	RefPlanets: Search for reflected light from extrasolar planets with SPHERE/ZIMPOL. <i>Astronomy and Astrophysics</i> , 2020, 634, A69.	5.1	14
13	K-Stacker: an algorithm to hack the orbital parameters of planets hidden in high-contrast imaging. <i>Astronomy and Astrophysics</i> , 2020, 639, A113.	5.1	6
14	Coronagraphic phase diversity through residual turbulence: performance study and experimental validation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 4307-4316.	4.4	9
15	Post-conjunction detection of $\langle i \rangle^2 \langle i \rangle$ Pictoris b with VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2019, 621, L8.	5.1	41
16	Hint of curvature in the orbital motion of the exoplanet 51 Eridani b using 3 yr of VLT/SPHERE monitoring. <i>Astronomy and Astrophysics</i> , 2019, 624, A118.	5.1	30
17	Calibration of quasi-static aberrations in exoplanet direct-imaging instruments with a Zernike phase-mask sensor. <i>Astronomy and Astrophysics</i> , 2019, 629, A11.	5.1	35
18	SPHERE: the exoplanet imager for the Very Large Telescope. <i>Astronomy and Astrophysics</i> , 2019, 631, A155.	5.1	361

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19	Origin of the asymmetry of the wind driven halo observed in high-contrast images. <i>Astronomy and Astrophysics</i> , 2018, 620, L10.	5.1	29
20	SPHERE/ZIMPOL high resolution polarimetric imager. <i>Astronomy and Astrophysics</i> , 2018, 619, A9.	5.1	78
21	Discovery of a planetary-mass companion within the gap of the transition disk around PDS 70. <i>Astronomy and Astrophysics</i> , 2018, 617, A44.	5.1	436
22	Discovery of a brown dwarf companion to the star HIP 64892. <i>Astronomy and Astrophysics</i> , 2018, 615, A160.	5.1	26
23	Fine cophasing of segmented aperture telescopes with ZELDA, a Zernike wavefront sensor in the diffraction-limited regime. <i>Astronomy and Astrophysics</i> , 2017, 603, A23.	5.1	19
24	Discovery of a warm, dusty giant planet around HIP 65426. <i>Astronomy and Astrophysics</i> , 2017, 605, L9.	5.1	172
25	SPHERE/ZIMPOL observations of the symbiotic system R Aquarii. <i>Astronomy and Astrophysics</i> , 2017, 602, A53.	5.1	37
26	The HIP 79977 debris disk in polarized light. <i>Astronomy and Astrophysics</i> , 2017, 607, A90.	5.1	40
27	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A55.	5.1	81
28	Calibration of quasi-static aberrations in exoplanet direct-imaging instruments with a Zernike phase-mask sensor. <i>Astronomy and Astrophysics</i> , 2016, 592, A79.	5.1	45
29	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A56.	5.1	90
30	SAXO: the extreme adaptive optics system of SPHERE (I) system overview and global laboratory performance. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2016, 2, 025003.	1.8	59
31	Shadows cast on the transition disk of HD 135344B. <i>Astronomy and Astrophysics</i> , 2016, 595, A113.	5.1	136
32	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A57.	5.1	129
33	Apodization in high-contrast long-slit spectroscopy. <i>Astronomy and Astrophysics</i> , 2016, 586, A144.	5.1	8
34	Performance of the VLT Planet Finder SPHERE. <i>Astronomy and Astrophysics</i> , 2015, 576, A121.	5.1	107
35	Fast-moving features in the debris disk around AU Microscopii. <i>Nature</i> , 2015, 526, 230-232.	27.8	95
36	Performance of the VLT Planet Finder SPHERE. <i>Astronomy and Astrophysics</i> , 2014, 572, A85.	5.1	66

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37	Wave-front sensor strategies for SPHERE: first on-sky results and future improvements. Proceedings of SPIE, 2014, , .	0.8	8
38	SPHERE eXtreme AO control scheme: final performance assessment and on sky validation of the first auto-tuned LQG based operational system. Proceedings of SPIE, 2014, , .	0.8	37
39	High-order myopic coronagraphic phase diversity (COFFEE) for wave-front control in high-contrast imaging systems. Optics Express, 2013, 21, 31751.	3.4	39
40	Prospects of detecting the polarimetric signature of the Earth-mass planet ϵ Centauri B b with SPHERE/ZIMPOL. Astronomy and Astrophysics, 2013, 556, A64.	5.1	17
41	Apodization in high-contrast long-slit spectroscopy. Astronomy and Astrophysics, 2013, 555, A49.	5.1	5
42	Speckle temporal stability in XAO coronagraphic images. Astronomy and Astrophysics, 2013, 554, A41.	5.1	34
43	Calibration of quasi-static aberrations in exoplanet direct-imaging instruments with a Zernike phase-mask sensor. Astronomy and Astrophysics, 2013, 555, A94.	5.1	83
44	Lab results of the circular phase mask concepts for high-contrast imaging of exoplanets. Proceedings of SPIE, 2012, , .	0.8	5
45	Active optics methods for exoplanet direct imaging. Astronomy and Astrophysics, 2012, 538, A139.	5.1	45
46	Improved achromatization of phase mask coronagraphs using colored apodization. Astronomy and Astrophysics, 2012, 538, A55.	5.1	22
47	On-sky multiwavelength phasing of segmented telescopes with the Zernike phase contrast sensor. Applied Optics, 2011, 50, 2708.	2.1	29
48	Apodized Lyot coronagraph for SPHERE/VLT. Experimental Astronomy, 2011, 30, 39-58.	3.7	113
49	Simulation of planet detection with the SPHERE integral field spectrograph. Astronomy and Astrophysics, 2011, 529, A131.	5.1	12
50	Experimental results with a second-generation Roddier & Roddier phase mask coronagraph. Astronomy and Astrophysics, 2010, 509, A8.	5.1	13
51	BIGRE: A LOW CROSS-TALK INTEGRAL FIELD UNIT TAILORED FOR EXTRASOLAR PLANETS IMAGING SPECTROSCOPY. Astrophysical Journal, 2009, 695, 1042-1057.	4.5	69
52	Design, analysis, and testing of a microdot apodizer for the Apodized Pupil Lyot Coronagraph. Astronomy and Astrophysics, 2009, 495, 363-370.	5.1	66
53	The infra-red dual imaging and spectrograph for SPHERE: design and performance. Proceedings of SPIE, 2008, , .	0.8	138
54	Exoplanet characterization with long slit spectroscopy. Astronomy and Astrophysics, 2008, 489, 1345-1354.	5.1	42

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55	High-order adaptive optics requirements for direct detection of extrasolar planets: Application to the SPHERE instrument. Optics Express, 2006, 14, 7515.	3.4	168
56	Phase masks in astronomy: From the Mach-Zehnder interferometer to coronagraphs. EAS Publications Series, 2004, 12, 33-44.	0.3	18
57	Achromatic dual-zone phase mask stellar coronagraph. Astronomy and Astrophysics, 2003, 403, 369-381.	5.1	58