

Kjetil Dohlen

List of Publications by Year in descending order

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57
papers

3,632
citations

126907

33
h-index

138484

58
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58
all docs

58
docs citations

58
times ranked

1722
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	SPHERE: the exoplanet imager for the Very Large Telescope. <i>Astronomy and Astrophysics</i> , 2019, 631, A155.	5.1	361
3	Discovery of a warm, dusty giant planet around HIP 65426. <i>Astronomy and Astrophysics</i> , 2017, 605, L9.	5.1	172
4	High-order adaptive optics requirements for direct detection of extrasolar planets: Application to the SPHERE instrument. <i>Optics Express</i> , 2006, 14, 7515.	3.4	168
5	The infra-red dual imaging and spectrograph for SPHERE: design and performance. <i>Proceedings of SPIE</i> , 2008, , .	0.8	138
6	Shadows cast on the transition disk of HD 135344B. <i>Astronomy and Astrophysics</i> , 2016, 595, A113.	5.1	136
7	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A57.	5.1	129
8	The SPHERE infrared survey for exoplanets (SHINE). <i>Astronomy and Astrophysics</i> , 2021, 651, A72.	5.1	117
9	Apodized Lyot coronagraph for SPHERE/VLT. <i>Experimental Astronomy</i> , 2011, 30, 39-58.	3.7	113
10	Performance of the VLT Planet Finder SPHERE. <i>Astronomy and Astrophysics</i> , 2015, 576, A121.	5.1	107
11	Fast-moving features in the debris disk around AU Microscopii. <i>Nature</i> , 2015, 526, 230-232.	27.8	95
12	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A56.	5.1	90
13	Calibration of quasi-static aberrations in exoplanet direct-imaging instruments with a Zernike phase-mask sensor. <i>Astronomy and Astrophysics</i> , 2013, 555, A94.	5.1	83
14	First light of the VLT planet finder SPHERE. <i>Astronomy and Astrophysics</i> , 2016, 587, A55.	5.1	81
15	Polarimetric imaging mode of VLT/SPHERE/IRDIS. <i>Astronomy and Astrophysics</i> , 2020, 633, A64.	5.1	81
16	SPHERE/ZIMPOL high resolution polarimetric imager. <i>Astronomy and Astrophysics</i> , 2018, 619, A9.	5.1	78
17	BIGRE: A LOW CROSS-TALK INTEGRAL FIELD UNIT TAILORED FOR EXTRASOLAR PLANETS IMAGING SPECTROSCOPY. <i>Astrophysical Journal</i> , 2009, 695, 1042-1057.	4.5	69
18	Polarimetric imaging mode of VLT/SPHERE/IRDIS. <i>Astronomy and Astrophysics</i> , 2020, 633, A63.	5.1	67

#	ARTICLE	IF	CITATIONS
19	Performance of the VLT Planet Finder SPHERE. <i>Astronomy and Astrophysics</i> , 2014, 572, A85.	5.1	66
20	Design, analysis, and testing of a microdot apodizer for the Apodized Pupil Lyot Coronagraph. <i>Astronomy and Astrophysics</i> , 2009, 495, 363-370.	5.1	66
21	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
22	Achromatic dual-zone phase mask stellar coronagraph. <i>Astronomy and Astrophysics</i> , 2003, 403, 369-381.	5.1	58
23	The SPHERE infrared survey for exoplanets (SHINE). <i>Astronomy and Astrophysics</i> , 2021, 651, A71.	5.1	47
24	Active optics methods for exoplanet direct imaging. <i>Astronomy and Astrophysics</i> , 2012, 538, A139.	5.1	45
25	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
26	Exoplanet characterization with long slit spectroscopy. <i>Astronomy and Astrophysics</i> , 2008, 489, 1345-1354.	5.1	42
27	Post-conjunction detection of $\hat{\rho}^2$ Pictoris b with VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2019, 621, L8.	5.1	41
28	The HIP 79977 debris disk in polarized light. <i>Astronomy and Astrophysics</i> , 2017, 607, A90.	5.1	40
29	High-order myopic coronagraphic phase diversity (COFFEE) for wave-front control in high-contrast imaging systems. <i>Optics Express</i> , 2013, 21, 31751.	3.4	39
30	The SPHERE infrared survey for exoplanets (SHINE). <i>Astronomy and Astrophysics</i> , 2021, 651, A70.	5.1	39
31	SPHERE eXtreme AO control scheme: final performance assessment and on sky validation of the first auto-tuned LQG based operational system. <i>Proceedings of SPIE</i> , 2014, , .	0.8	37
32	SPHERE/ZIMPOL observations of the symbiotic system R Aquarii. <i>Astronomy and Astrophysics</i> , 2017, 602, A53.	5.1	37
33	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
34	Speckle temporal stability in XAO coronagraphic images. <i>Astronomy and Astrophysics</i> , 2013, 554, A41.	5.1	34
35	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
36	On-sky multiwavelength phasing of segmented telescopes with the Zernike phase contrast sensor. <i>Applied Optics</i> , 2011, 50, 2708.	2.1	29

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37	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
38	Imaging low-mass planets within the habitable zone of $\hat{\iota}$ Centauri. <i>Nature Communications</i> , 2021, 12, 922.	12.8	29
39	Discovery of a brown dwarf companion to the star HIP 64892. <i>Astronomy and Astrophysics</i> , 2018, 615, A160.	5.1	26
40	Wind-driven halo in high-contrast images. <i>Astronomy and Astrophysics</i> , 2020, 638, A98.	5.1	25
41	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
42	Improved achromatization of phase mask coronagraphs using colored apodization. <i>Astronomy and Astrophysics</i> , 2012, 538, A55.	5.1	22
43	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
44	HD 142527: quantitative disk polarimetry with SPHERE. <i>Astronomy and Astrophysics</i> , 2021, 648, A110.	5.1	19
45	Phase masks in astronomy: From the Mach-Zehnder interferometer to $\hat{\iota}$ coronagraphs. <i>EAS Publications Series</i> , 2004, 12, 33-44.	0.3	18
46	Prospects of detecting the polarimetric signature of the Earth-mass planet $\hat{\iota}$ Centauri B b with SPHERE/ZIMPOL. <i>Astronomy and Astrophysics</i> , 2013, 556, A64.	5.1	17
47	RefPlanets: Search for reflected light from extrasolar planets with SPHERE/ZIMPOL. <i>Astronomy and Astrophysics</i> , 2020, 634, A69.	5.1	14
48	Experimental results with a second-generation Roddier & Roddier phase mask coronagraph. <i>Astronomy and Astrophysics</i> , 2010, 509, A8.	5.1	13
49	Simulation of planet detection with the SPHERE integral field spectrograph. <i>Astronomy and Astrophysics</i> , 2011, 529, A131.	5.1	12
50	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
51	Wave-front sensor strategies for SPHERE: first on-sky results and future improvements. <i>Proceedings of SPIE</i> , 2014, , .	0.8	8
52	Apodization in high-contrast long-slit spectroscopy. <i>Astronomy and Astrophysics</i> , 2016, 586, A144.	5.1	8
53	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
54	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

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55	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
56	Lab results of the circular phase mask concepts for high-contrast imaging of exoplanets. <i>Proceedings of SPIE</i> , 2012, , .	0.8	5
57	Apodization in high-contrast long-slit spectroscopy. <i>Astronomy and Astrophysics</i> , 2013, 555, A49.	5.1	5