

# Alexandre Cabral

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6909354/publications.pdf>

Version: 2024-02-01

78  
papers

957  
citations

759233  
12  
h-index

501196  
28  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nightside condensation of iron in an ultrahot giant exoplanet. Nature, 2020, 580, 597-601.	27.8	178
2	ESPRESSO: The next European exoplanet hunter. Astronomische Nachrichten, 2014, 335, 8-20.	1.2	165
3	ESPRESSO: the Echelle spectrograph for rocky exoplanets and stable spectroscopic observations. Proceedings of SPIE, 2010, , .	0.8	126
4	Accuracy of frequency-sweeping interferometry for absolute distance metrology. Optical Engineering, 2007, 46, 073602.	1.0	52
5	MOONS: the Multi-Object Optical and Near-infrared Spectrograph for the VLT. Proceedings of SPIE, 2014, , .	0.8	52
6	WASP-127b: a misaligned planet with a partly cloudy atmosphere and tenuous sodium signature seen by ESPRESSO. Astronomy and Astrophysics, 2020, 644, A155.	5.1	36
7	EELT-HIRES the high-resolution spectrograph for the E-ELT. Proceedings of SPIE, 2016, , .	0.8	34
8	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
9	A sub-Neptune and a non-transiting Neptune-mass companion unveiled by ESPRESSO around the bright late-F dwarf HD 5278 (TOI-130). Astronomy and Astrophysics, 2021, 648, A75.	5.1	22
10	Fundamental physics with ESPRESSO: Towards an accurate wavelength calibration for a precision test of the fine-structure constant. Astronomy and Astrophysics, 2021, 646, A144.	5.1	18
11	NIRPS: an adaptive-optics assisted radial velocity spectrograph to chase exoplanets around M-stars. , 2017, , .		18
12	MOONS: a multi-object optical and near-infrared spectrograph for the VLT. Proceedings of SPIE, 2012, , .	0.8	16
13	ESPRESSO: the ultimate rocky exoplanets hunter for the VLT. Proceedings of SPIE, 2012, , .	0.8	13
14	Dual-frequency sweeping interferometry for absolute metrology of long distances. Optical Engineering, 2010, 49, 085601.	1.0	12
15	HIRES: the high resolution spectrograph for the E-ELT. Proceedings of SPIE, 2014, , .	0.8	12
16	Absolute distance metrology with frequency sweeping interferometry. , 2005, , .		11
17	The impact of atmospheric dispersion in the performance of high-resolution spectrographs. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3515-3522.	4.4	11
18	Rising MOONS: an update on the VLT's next multi-object spectrograph as it begins to grow. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
19	ELT-HIRES, the high resolution spectrograph for the ELT: results from the Phase A study. , 2018, , .		10
20	ESPRESSO: the radial velocity machine for the VLT. Proceedings of SPIE, 2014, , .	0.8	9
21	Calibration of the Fabry-PÃ©rot free spectral range using a tunable laser in a Michelson interferometer. Optical Engineering, 2006, 45, 100501.	1.0	8
22	Rotational and Rotational-Vibrational Raman Spectroscopy of Air to Characterize Astronomical Spectrographs. Physical Review Letters, 2019, 123, 061101.	7.8	8
23	Primary laser vibration metrology: evaluation of the rocking motion impact in the accuracy of acceleration measurements. Proceedings of SPIE, 2008, , .	0.8	7
24	ESPRESSO: design and analysis of a CoudÃ©-train for a stable and efficient simultaneous optical feeding from the four VLT unit telescopes. Proceedings of SPIE, 2012, , .	0.8	7
25	VSI: the VLTI spectro-imager. Proceedings of SPIE, 2008, , .	0.8	5
26	Optical design of the ESPRESSO spectrograph at VLT. , 2010, , .		5
27	Adoption of new software and hardware solutions at the VLT: the ESPRESSO control architecture case. , 2012, , .		5
28	ESPRESSO front end opto-mechanical configuration. Proceedings of SPIE, 2012, , .	0.8	5
29	ESPRESSO front end exposure meter: a chromatic approach to radial velocity correction. Proceedings of SPIE, 2014, , .	0.8	5
30	Spatial coherence characterization of light: An experimental study using digital micromirror devices. Optik, 2021, 226, 166034.	2.9	5
31	Integration and first results of the CAMCAO NIR camera. , 2006, , .		4
32	ESPRESSO front end exposure meter: a chromatic approach to radial velocity correction. , 2013, , .		4
33	ESPRESSO APSU: simplify the life of pupil slicing. Proceedings of SPIE, 2013, , .	0.8	4
34	Implementation and performance of the metrology system for the multi-object optical and near-infrared spectrograph MOONS. , 2016, , .		4
35	Dual frequency sweeping interferometry with range-invariant accuracy for absolute distance metrology. , 2008, , .		3
36	ESPRESSO front-end guiding algorithm. Proceedings of SPIE, 2012, , .	0.8	3

#	ARTICLE	IF	CITATIONS
37	The metrology system for the multi-object optical and near-infrared spectrograph MOONS. Proceedings of SPIE, 2014, , .	0.8	3
38	Simple concept for atmospheric dispersion corrector on-sky commissioning tests. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	3
39	An interferometer for high-resolution optical surveillance from GEO - internal metrology breadboard. , 2017, , .		3
40	MOONS, the next ESO VLT's multi-object spectrograph: the field corrector and the rotating front end. , 2020, , .		3
41	ESPRESSO: projecting a rocky exoplanet hunter for the VLT. Proceedings of SPIE, 2010, , .	0.8	2
42	ESPRESSO: design and analysis of Coudé-Train concepts for stable and efficient optical feeding. Proceedings of SPIE, 2010, , .	0.8	2
43	Optical design of a Coudé-Train for a stable and efficient simultaneous feeding of the ESPRESSO spectrograph from the four VLT telescopes. , 2013, , .		2
44	ESPRESSO, an exo-Earths hunter for the VLT. , 2013, , .		2
45	ESPRESSO Coudé-Train: complexities of a simultaneous optical feeding from the four VLT unit telescopes. Proceedings of SPIE, 2014, , .	0.8	2
46	ESPRESSO front end guiding algorithms: from design phase to implementation and validation toward the commissioning. Proceedings of SPIE, 2016, , .	0.8	2
47	The development of an optical design tool for atmospheric dispersion correction. , 2019, , .		2
48	Absolute calibration of standard accelerometers with optical interferometry. , 2006, , .		1
49	Mode-locked diode laser for long distance precision metrology. Proceedings of SPIE, 2011, , .	0.8	1
50	Diffraction optical variable image devices generated by maskless interferometric lithography for optical security. Proceedings of SPIE, 2011, , .	0.8	1
51	Effect of master oscillator stability over pulse repetition frequency on hybrid semiconductor mode-locked laser. Laser Physics Letters, 2015, 12, 045001.	1.4	1
52	Alignment of the ESPRESSO Coudé train on the ESO VLT. , 2016, , .		1
53	Mode-locked semiconductor laser for long and absolute distance measurement based on laser pulse repetition frequency sweeping: a comparative study between three types of lasers. , 2017, , .		1
54	Dimensional Metrology and Frequency Sweeping Interferometry. , 0, , .		1

#	ARTICLE	IF	CITATIONS
55	High-precision optical metrology for Darwin: design and performance. , 2018, , .		1
56	Atmospheric dispersion correction: model requirements and impact on radial velocity measurements. , 2019, , .		1
57	An optical metrology system for the measurement of the refractive index of glass. EPJ Web of Conferences, 2020, 238, 06013.	0.3	1
58	Final characteristics and performances of the fibres of MOONS. , 2020, , .		1
59	Crescent MOONS: an update on the ongoing construction of the new VLT's multi-object spectrograph. , 2020, , .		1
60	Network compensation of optical metrology for satellite formation flying. , 2005, , .		0
61	Heterodyne interferometry for calibration of standard accelerometers in high frequency regime. , 2006, , .		0
62	Dual frequency sweeping interferometry for absolute distance metrology at long ranges: implementation and performance. Proceedings of SPIE, 2010, , .	0.8	0
63	Laser frequency stability: a simple approach for a quantitative analysis. Proceedings of SPIE, 2011, , .	0.8	0
64	High accuracy piston and wobble sensor based on heterodyne interferometry. Proceedings of SPIE, 2013, , .	0.8	0
65	Degree of polarization as a cross-correlation detector for absolute distance measurement. Proceedings of SPIE, 2013, , .	0.8	0
66	MMP: multi mini prism device for ESPRESSO APSU, prototyping, and integration. Proceedings of SPIE, 2014, , .	0.8	0
67	Study of the stabilization of a semiconductor mode-lock laser using hybrid mode-lock and optical feedback. Proceedings of SPIE, 2014, , .	0.8	0
68	Important Optical Principles and their Occurrence in Nature. , 2017, , 27-54.		0
69	Measurement of the refractive index of glass with $10^{-4}$ level accuracy based on the lateral displacement method. Optical Engineering, 2021, 60, .	1.0	0
70	An interferometer for high-resolution optical surveillance from geostationary orbit. , 2017, , .		0
71	Technique for long and absolute distance measurement based on laser pulse repetition frequency sweeping. , 2017, , .		0
72	An interferometer for high-resolution optical surveillance from geostationary orbit - space system study. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
73	ELT-HIRES, the high resolution spectrograph for the ELT: the design of the front end. , 2018, , .		0
74	ESPRESSO Coud�-Train: ESO's VLT working as 16-metre telescope. , 2019, , .		0
75	Measurement of the refractive index of glass by optical metrology. , 2019, , .		0
76	A novel method for on-sky measurements of atmospheric dispersion. , 2020, , .		0
77	A white light collimator for Plato camera integration support. , 2020, , .		0
78	A Simple concept for Atmospheric Dispersion Correctors on-sky commissioning tests. , 2020, , .		0