

Manuel Adler Abreu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2738088/publications.pdf>

Version: 2024-02-01

61
papers

772
citations

840776

11
h-index

580821

25
g-index

63
all docs

63
docs citations

63
times ranked

1438
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	High-speed laser welding of plastic films. Optics and Lasers in Engineering, 2000, 34, 385-395.	3.8	89
4	MOONS: the Multi-Object Optical and Near-infrared Spectrograph for the VLT. Proceedings of SPIE, 2014, , .	0.8	52
5	EELT-HIRES the high-resolution spectrograph for the E-ELT. Proceedings of SPIE, 2016, , .	0.8	34
6	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
7	Methodologies for determining thermoplastic films optical parameters at 10.6 μ m laser wavelength. Polymer Testing, 2004, 23, 307-312.	4.8	25
8	Modelling the spot shape influence on high-speed transmission lap welding of thermoplastics films. Optics and Lasers in Engineering, 2008, 46, 55-61.	3.8	24
9	High-speed laser cutting of superposed thermoplastic films: thermal modeling and process characterization. Optics and Lasers in Engineering, 2004, 42, 27-39.	3.8	20
10	MOONS: a multi-object optical and near-infrared spectrograph for the VLT. Proceedings of SPIE, 2012, , .	0.8	16
11	ESPRESSO: the ultimate rocky exoplanets hunter for the VLT. Proceedings of SPIE, 2012, , .	0.8	13
12	Dual-frequency sweeping interferometry for absolute metrology of long distances. Optical Engineering, 2010, 49, 085601.	1.0	12
13	Modeling CO ₂ laser radiation transmission lap welding of thermoplastic films: energy balance approximation. Optical Engineering, 2007, 46, 064301.	1.0	11
14	Rising MOONS: an update on the VLT's next multi-object spectrograph as it begins to grow. , 2018, , .		11
15	3D Finite Element Model for Writing Long-Period Fiber Gratings by CO ₂ Laser Radiation. Sensors, 2013, 13, 10333-10347.	3.8	10
16	Modeling refractive index change in writing long-period fiber gratings using mid-infrared laser radiation. Photonic Sensors, 2013, 3, 67-73.	5.0	9
17	ESPRESSO: the radial velocity machine for the VLT. Proceedings of SPIE, 2014, , .	0.8	9
18	Thermal modeling of CO ₂ laser radiation transmission welding of superposed thermoplastic films. Optical Engineering, 2003, 42, 3365.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Writing of Long Period Fiber Gratings Using CO ₂ Laser Radiation. , 0, , .		6
20	Adoption of new software and hardware solutions at the VLT: the ESPRESSO control architecture case. , 2012, , .		5
21	Ultrashort Long-Period Fiber Grating Sensors Inscribed on a Single Mode Fiber Using CO ₂ Laser Radiation. Journal of Sensors, 2017, 2017, 1-9.	1.1	5
22	Application of schlieren interferometry to temperature measurements during laser welding of high-density polyethylene films. Applied Optics, 2003, 42, 6327.	2.1	4
23	Synthesis of new Fe(II) and Ru(II) η^5 -monocyclopentadienyl compounds showing significant second order NLO properties. Journal of Organometallic Chemistry, 2013, 736, 42-49.	1.8	4
24	Implementation and performance of the metrology system for the multi-object optical and near-infrared spectrograph MOONS. , 2016, , .		4
25	Influence of laser spot shape on welding of thin thermoplastics. , 2000, , .		3
26	Dual frequency sweeping interferometry with range-invariant accuracy for absolute distance metrology. , 2008, , .		3
27	Experimental and simulation assessments of underwater light propagation. Frontiers of Optoelectronics, 2019, 12, 405-412.	3.7	3
28	Automation methodology for the development of LPFG using CO ₂ laser radiation. Proceedings of SPIE, 2013, , .	0.8	2
29	Optical design of a Coudé-Train for a stable and efficient simultaneous feeding of the ESPRESSO spectrograph from the four VLT telescopes. , 2013, , .		2
30	ESPRESSO, an exo-Earths hunter for the VLT. , 2013, , .		2
31	Repeatability analysis on LPFGs written by a CO ₂ laser. , 2014, , .		2
32	ESPRESSO Coudé-Train: complexities of a simultaneous optical feeding from the four VLT unit telescopes. Proceedings of SPIE, 2014, , .	0.8	2
33	The SAFE-PORT project: An approach to port surveillance and protection. , 2010, , .		1
34	Mode-locked diode laser for long distance precision metrology. Proceedings of SPIE, 2011, , .	0.8	1
35	Optical fiber tapers produced by near-infrared laser radiation. , 2013, , .		1
36	Effect of master oscillator stability over pulse repetition frequency on hybrid semiconductor mode-locked laser. Laser Physics Letters, 2015, 12, 045001.	1.4	1

#	ARTICLE	IF	CITATIONS
37	Alignment of the ESPRESSO CoudÃ© train on the ESO VLT. , 2016, , .		1
38	A Hybrid System for Assessing Mental Workload. , 2019, , .		1
39	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
40	Dimensional Metrology and Frequency Sweeping Interferometry. , 0, , .		1
41	<title>Misalignments of airborne laser beams due to mechanical vibrations</title>. , 1991, , .		0
42	<title>Far-field pattern of laser diodes as function of the relative atmospheric humidity</title>. , 1991, , .		0
43	<title>Use of an optical sensor as a directional antenna</title>. , 1995, , .		0
44	<title>Optic omnidirectional sensor for source location</title>. , 1995, , .		0
45	Laser channels opening in graphite: parameters and analysis methodologies. , 0, , .		0
46	Influence of thermal stresses in modelling the lap welding of thermoplastic films. , 0, , .		0
47	Laser Cutting of Glass Tubes. Materials Science Forum, 2006, 514-516, 729-733.	0.3	0
48	Quality Control of Fuel Cells Channels. Materials Science Forum, 2006, 514-516, 442-446.	0.3	0
49	Dual frequency sweeping interferometry for absolute distance metrology at long ranges: implementation and performance. Proceedings of SPIE, 2010, , .	0.8	0
50	Laser frequency stability: a simple approach for a quantitative analysis. Proceedings of SPIE, 2011, , .	0.8	0
51	High accuracy piston and wobble sensor based on heterodyne interferometry. Proceedings of SPIE, 2013, , .	0.8	0
52	Degree of polarization as a cross-correlation detector for absolute distance measurement. Proceedings of SPIE, 2013, , .	0.8	0
53	Study of the stabilization of a semiconductor mode-lock laser using hybrid mode-lock and optical feedback. Proceedings of SPIE, 2014, , .	0.8	0
54	Application of the Vernier method with the phase shift time of flight technique for optical metrology. Optics and Lasers in Engineering, 2022, 149, 106807.	3.8	0

#	ARTICLE	IF	CITATIONS
55	Low cost ellipsometer using a standard commercial polarimeter. , 2017, , .		0
56	Technique for long and absolute distance measurement based on laser pulse repetition frequency sweeping. , 2017, , .		0
57	ELT-HIRES, the high resolution spectrograph for the ELT: the design of the front end. , 2018, , .		0
58	Automatized alignment of the focal plane assemblies on the PLATO cameras. , 2018, , .		0
59	A New Tool for Cognitive Workload Assessment in System Design Prototypes. Advances in Intelligent Systems and Computing, 2020, , 263-274.	0.6	0
60	ESPRESSO CoudÃ©-Train: ESO's VLT working as 16-metre telescope. , 2019, , .		0
61	Cross-validation of EEG data for cognitive workload evaluation using an eye-tracker in imaging system tasks. , 2019, , .		0