Jos Rebordo

List of Publications by Year in Descending Order

54 papers	4,972 citations	12 h-index	70 g-index
81 ext. papers	5,975 ext. citations	2.3 avg, IF	3.45 L-index

#	Paper	IF	Citations
54	PyWolf: A PyOpenCL implementation for simulating the propagation of partially coherent light. *Computer Physics Communications*, **2022**, 276, 108336	4.2	0
53	Spatial coherence characterization of light: An experimental study using digital micromirror devices. *Optik*, **2021**, 226, 166034	2.5	1
52	A Refractive Index Sensor Based on a FabryPerot Interferometer Manufactured by NIR Laser Microdrilling and Electric Arc Fusion. *Photonics*, **2019**, 6, 109	2.2	0
51	Spatial coherence mapping of structured sources: a flexible instrument for solar studies. *Applied Optics*, **2019**, 58, 8840-8851	1.7	1
50	Numerical simulations of spectral shifts in the far-field spectrum of light due to source correlations. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2018**, 35, 423-430	1.8	2
49	Ultrashort Long-Period Fiber Gratings Inscribed on a Single-Mode Fiber for Torsion Sensing Applications. *Journal of Sensors*, **2018**, 2018, 1-6	2	3
48	Ultrashort Long-Period Fiber Grating Sensors Inscribed on a Single Mode Fiber Using CO2 Laser Radiation. *Journal of Sensors*, **2017**, 2017, 1-9	2	4
47	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
46	Finite element model for the simulation of laser activated micro- and nano-scale drug delivery systems **2017**,		1
45	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 605, A79	5.1	64
44	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 601, A19	5.1	71
43	TheGaiamission. *Astronomy and Astrophysics*, **2016**, 595, A1	5.1	2933
42	GaiaData Release 1. *Astronomy and Astrophysics*, **2016**, 595, A2	5.1	1364
41	Effect of master oscillator stability over pulse repetition frequency on hybrid semiconductor mode-locked laser. *Laser Physics Letters*, **2015**, 12, 045001	1.5	1
40	Intrinsic parameterization of a computational optical system for long-distance displacement structural monitoring. *Optical Engineering*, **2015**, 54, 014105	1.1	
39	Structural observation of long-span suspension bridges for safety assessment: implementation of an optical displacement measurement system. *Journal of Physics: Conference Series*, **2015**, 588, 012004	0.3	6
38	The EChO science case. *Experimental Astronomy*, **2015**, 40, 329-391	1.3	26

37	Writing of Long Period Fiber Gratings Using CO2 Laser Radiation **2015**,		4
36	Thermal Influence on Long-Distance Optical Measurement of Suspension Bridge Displacement. *International Journal of Thermophysics*, **2014**, 35, 693-711	2.1	6
35	Repeatability analysis on LPFGs written by a CO2laser **2014**,		1
34	Design and development of PROBA-3 rendezvous experiment. *Acta Astronautica*, **2014**, 102, 311-320	2.9	2
33	Modeling refractive index change in writing long-period fiber gratings using mid-infrared laser radiation. *Photonic Sensors*, **2013**, 3, 67-73	2.3	7
32	Optical fiber tapers produced by near-infrared laser radiation **2013**,		1
31	Space optical navigation techniques: an overview **2013**,		1
30	3D finite element model for writing long-period fiber gratings by CO2 laser radiation. *Sensors*, **2013**, 13, 10333-47	3.8	7
29	Conception and development of an optical methodology applied to long-distance measurement of suspension bridges dynamic displacement. *Journal of Physics: Conference Series*, **2013**, 459, 012055	0.3	4
28	LOLS research in technology for the development and application of new fiber-based sensors. *Sensors*, **2012**, 12, 2654-66	3.8	4
27	Mars Pre-aerocapture GNC functional and real time performance **2012**,		1
26	G0.253 + 0.016: A MOLECULAR CLOUD PROGENITOR OF AN ARCHES-LIKE CLUSTER. *Astrophysical Journal*, **2012**, 746, 117	4.7	132
25	Nanosecond laser micropatterning of optical fibers **2011**,		1
24	Dual-frequency sweeping interferometry for absolute metrology of long distances. *Optical Engineering*, **2010**, 49, 085601	1.1	8
23	ESPRESSO: the Echelle spectrograph for rocky exoplanets and stable spectroscopic observations **2010**,		98
22	Uncovering the kiloparsec-scale stellar ring of NGC 5128. *Astronomy and Astrophysics*, **2009**, 502, L5-L8	5.1	12
21	Milli-arcsecond Astrophysics with VSI, the VLTI Spectro-imager in the ELT Era. *Thirty Years of Astronomical Discovery With UKIRT*, **2009**, 343-348	0.3	
20	Dual frequency sweeping interferometry with range-invariant accuracy for absolute distance metrology **2008**,		2

19	VSI: the VLTI spectro-imager **2008**,		4
18	Primary laser vibration metrology: evaluation of the rocking motion impact in the accuracy of acceleration measurements **2008**,		5
17	Design and performance assessment of hazard avoidance techniques for vision-based landing. *Acta Astronautica*, **2007**, 61, 63-77	2.9	19
16	Two-dimensional Kaiser apodization function for interferometric radiometry from space. *Optical Engineering*, **2007**, 46, 036201	1.1	
15	Accuracy of frequency-sweeping interferometry for absolute distance metrology. *Optical Engineering*, **2007**, 46, 073602	1.1	34
14	Calibration of the Fabry-Pérot free spectral range using a tunable laser in a Michelson interferometer. *Optical Engineering*, **2006**, 45, 100501	1.1	5
13	Integration and first results of the CAMCAO NIR camera **2006**,		2
12	Absolute distance metrology with frequency sweeping interferometry **2005**,		10
11	The CAMCAO infrared camera **2004**, 5492, 1699		2
10	A Discretized Linear Elastic Model for Cloth Buckling and Drape. *Textile Reseach Journal*, **2000**, 70, 285-297	1.7	9
9	Modeling anisotropic and fractal two-dimensional fields: a tool for image simulation. *Optical Engineering*, **2000**, 39, 1497	1.1	2
8	Color dynamics of diffraction gratings: evaluation and applications in optical security. *Applied Optics* , **1999**, 38, 7183-92	1.7	1
7	mWorld: A multiuser 3D virtual environment. *IEEE Computer Graphics and Applications*, **1997**, 17, 55-65	1.7	35
6	Microwave Drying Effects On Dichromated Gelatin Holograms **1989**, 1051, 96		
5	Lookup table loadings for image processing with controlled knots. *Computer Vision, Graphics, and Image Processing*, **1989**, 47, 189-202		2
4	Microwave drying effects on dichromated gelatin holograms. *Applied Optics*, **1989**, 28, 4393-400	1.7	4
3	An amplitude segmentation method based on the distribution function of an image. *Computer Vision, Graphics, and Image Processing*, **1985**, 29, 47-59		58
2	Refraction on spherical surfaces I: an exact algebraic approach. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1984**, 1, 51	1.8	4

1	General form for aberration coefficients in holography. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1984**, 1, 788	1.8	5