

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	TheGaia mission. <i>Astronomy and Astrophysics</i> , 2016 , 595, A1	5.1	2933
53	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2016 , 595, A2	5.1	1364
52	G0.253 + 0.016: A MOLECULAR CLOUD PROGENITOR OF AN ARCHES-LIKE CLUSTER. <i>Astrophysical Journal</i> , 2012 , 746, 117	4.7	132
51	ESPRESSO: the Echelle spectrograph for rocky exoplanets and stable spectroscopic observations 2010 ,		98
50	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2017 , 601, A19	5.1	71
49	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2017 , 605, A79	5.1	64
48	An amplitude segmentation method based on the distribution function of an image. <i>Computer Vision, Graphics, and Image Processing</i> , 1985 , 29, 47-59		58
47	mWorld: A multiuser 3D virtual environment. <i>IEEE Computer Graphics and Applications</i> , 1997 , 17, 55-65	1.7	35
46	Accuracy of frequency-sweeping interferometry for absolute distance metrology. <i>Optical Engineering</i> , 2007 , 46, 073602	1.1	34
45	The EChO science case. <i>Experimental Astronomy</i> , 2015 , 40, 329-391	1.3	26
44	Design and performance assessment of hazard avoidance techniques for vision-based landing. <i>Acta Astronautica</i> , 2007 , 61, 63-77	2.9	19
43	Uncovering the kiloparsec-scale stellar ring of NGC 5128. <i>Astronomy and Astrophysics</i> , 2009 , 502, L5-L8	5.1	12
42	Absolute distance metrology with frequency sweeping interferometry 2005 ,		10
41	A Discretized Linear Elastic Model for Cloth Buckling and Drape. <i>Textile Research Journal</i> , 2000 , 70, 285-297	2.7	9
40	Dual-frequency sweeping interferometry for absolute metrology of long distances. <i>Optical Engineering</i> , 2010 , 49, 085601	1.1	8
39	Modeling refractive index change in writing long-period fiber gratings using mid-infrared laser radiation. <i>Photonic Sensors</i> , 2013 , 3, 67-73	2.3	7
38	3D finite element model for writing long-period fiber gratings by CO2 laser radiation. <i>Sensors</i> , 2013 , 13, 10333-47	3.8	7

37	Structural observation of long-span suspension bridges for safety assessment: implementation of an optical displacement measurement system. <i>Journal of Physics: Conference Series</i> , 2015 , 588, 012004	0.3	6
36	Thermal Influence on Long-Distance Optical Measurement of Suspension Bridge Displacement. <i>International Journal of Thermophysics</i> , 2014 , 35, 693-711	2.1	6
35	Primary laser vibration metrology: evaluation of the rocking motion impact in the accuracy of acceleration measurements 2008 ,		5
34	Calibration of the Fabry-Pérot free spectral range using a tunable laser in a Michelson interferometer. <i>Optical Engineering</i> , 2006 , 45, 100501	1.1	5
33	General form for aberration coefficients in holography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1984 , 1, 788	1.8	5
32	Ultrashort Long-Period Fiber Grating Sensors Inscribed on a Single Mode Fiber Using CO2 Laser Radiation. <i>Journal of Sensors</i> , 2017 , 2017, 1-9	2	4
31	Writing of Long Period Fiber Gratings Using CO2 Laser Radiation 2015 ,		4
30	Conception and development of an optical methodology applied to long-distance measurement of suspension bridges dynamic displacement. <i>Journal of Physics: Conference Series</i> , 2013 , 459, 012055	0.3	4
29	LOLS research in technology for the development and application of new fiber-based sensors. <i>Sensors</i> , 2012 , 12, 2654-66	3.8	4
28	VSI: the VLTI spectro-imager 2008 ,		4
27	Microwave drying effects on dichromated gelatin holograms. <i>Applied Optics</i> , 1989 , 28, 4393-400	1.7	4
26	Refraction on spherical surfaces I: an exact algebraic approach. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1984 , 1, 51	1.8	4
25	Ultrashort Long-Period Fiber Gratings Inscribed on a Single-Mode Fiber for Torsion Sensing Applications. <i>Journal of Sensors</i> , 2018 , 2018, 1-6	2	3
24	Numerical simulations of spectral shifts in the far-field spectrum of light due to source correlations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 423-430	1.8	2
23	Design and development of PROBA-3 rendezvous experiment. <i>Acta Astronautica</i> , 2014 , 102, 311-320	2.9	2
22	Dual frequency sweeping interferometry with range-invariant accuracy for absolute distance metrology 2008 ,		2
21	Integration and first results of the CAMCAO NIR camera 2006 ,		2
20	The CAMCAO infrared camera 2004 , 5492, 1699		2

19	Modeling anisotropic and fractal two-dimensional fields: a tool for image simulation. <i>Optical Engineering</i> , 2000 , 39, 1497	1.1	2
18	Lookup table loadings for image processing with controlled knots. <i>Computer Vision, Graphics, and Image Processing</i> , 1989 , 47, 189-202		2
17	Effect of master oscillator stability over pulse repetition frequency on hybrid semiconductor mode-locked laser. <i>Laser Physics Letters</i> , 2015 , 12, 045001	1.5	1
16	Repeatability analysis on LPFGs written by a CO ₂ laser 2014 ,		1
15	Optical fiber tapers produced by near-infrared laser radiation 2013 ,		1
14	Space optical navigation techniques: an overview 2013 ,		1
13	Nanosecond laser micropatterning of optical fibers 2011 ,		1
12	Mars Pre-aerocapture GNC functional and real time performance 2012 ,		1
11	Color dynamics of diffraction gratings: evaluation and applications in optical security. <i>Applied Optics</i> , 1999 , 38, 7183-92	1.7	1
10	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
9	Finite element model for the simulation of laser activated micro- and nano-scale drug delivery systems 2017 ,		1
8	Spatial coherence mapping of structured sources: a flexible instrument for solar studies. <i>Applied Optics</i> , 2019 , 58, 8840-8851	1.7	1
7	Spatial coherence characterization of light: An experimental study using digital micromirror devices. <i>Optik</i> , 2021 , 226, 166034	2.5	1
6	A Refractive Index Sensor Based on a FabryPerot Interferometer Manufactured by NIR Laser Microdrilling and Electric Arc Fusion. <i>Photonics</i> , 2019 , 6, 109	2.2	0
5	PyWolf: A PyOpenCL implementation for simulating the propagation of partially coherent light. <i>Computer Physics Communications</i> , 2022 , 276, 108336	4.2	0
4	Intrinsic parameterization of a computational optical system for long-distance displacement structural monitoring. <i>Optical Engineering</i> , 2015 , 54, 014105	1.1	
3	Two-dimensional Kaiser apodization function for interferometric radiometry from space. <i>Optical Engineering</i> , 2007 , 46, 036201	1.1	
2	Microwave Drying Effects On Dichromated Gelatin Holograms 1989 , 1051, 96		

1	Milli-arcsecond Astrophysics with VSI, the VLTI Spectro-imager in the ELT Era. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2009 , 343-348	0.3
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