

# Julián Espinosa

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

396  
citations

687363

13  
h-index

839539

18  
g-index

44  
all docs

44  
docs citations

44  
times ranked

306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Subjective Refraction From Anterior Corneal Surface, Eye Lengths, and Age Using Machine Learning Algorithms. <i>Translational Vision Science and Technology</i> , 2022, 11, 8.	2.2	0
2	Comparative analysis of spontaneous blinking and the corneal reflex. <i>Royal Society Open Science</i> , 2020, 7, 201016.	2.4	6
3	A method to measure small local strains in concrete surfaces using its natural texture and image cross-correlation. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2410.	4.0	5
4	Corneal Stability following Hyperopic LASIK with Advanced Laser Ablation Profiles Analyzed by a Light Propagation Study. <i>Journal of Ophthalmology</i> , 2018, 2018, 1-10.	1.3	7
5	Blinking characterization from high speed video records. Application to biometric authentication. <i>PLoS ONE</i> , 2018, 13, e0196125.	2.5	15
6	Bisector-Based Tracking of In Plane Subpixel Translations and Rotations. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 835.	2.5	0
7	Methods and algorithms for video-based multi-point frequency measuring and mapping. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 85, 164-174.	5.0	19
8	Realistic limits for subpixel movement detection. <i>Applied Optics</i> , 2016, 55, 4974.	2.1	20
9	OPTICS AND PHOTONICS INNOVATIVE EDUCATION NETWORKING: SYNERGIES BETWEEN UNIVERSITIES AROUND LEARNING. <i>INTED Proceedings</i> , 2016, , .	0.0	0
10	Measuring the effective focal length and shape factor of a thick lens using a microscope. <i>Optik</i> , 2015, 126, 1965-1969.	2.9	0
11	Innovative education networking aimed at multimedia tools for geometrical optics learning. , 2015, , .		2
12	Three-dimensional planar object tracking with sub-pixel accuracy. <i>Optik</i> , 2015, 126, 2684-2689.	2.9	2
13	A high-resolution binocular video-oculography system: assessment of pupillary light reflex and detection of an early incomplete blink and an upward eye movement. <i>BioMedical Engineering OnLine</i> , 2015, 14, 22.	2.7	11
14	Method for targetless tracking subpixel in-plane movements. <i>Applied Optics</i> , 2015, 54, 7760.	2.1	8
15	Targetless image-based method for measuring displacements and strains on concrete surfaces with a consumer camera. <i>Construction and Building Materials</i> , 2015, 75, 213-219.	7.2	14
16	New format in <i>Optica Pura y Aplicada</i> . <i>Optica Pura Y Aplicada</i> , 2015, 48, i-i.	0.1	0
17	Low cost subpixel method for vibration measurement. , 2014, , .		0
18	Retinal image quality assessment through a visual similarity index. <i>Journal of Modern Optics</i> , 2013, 60, 544-550.	1.3	5

#	ARTICLE	IF	CITATIONS
19	Open-access operating algorithms for commercial videokeratographer and improvement of corneal sampling. Applied Optics, 2013, 52, C24.	1.8	3
20	Image processing for safety assessment in civil engineering. Applied Optics, 2013, 52, 4385.	1.8	5
21	Vibration frequency measurement using a local multithreshold technique. Optics Express, 2013, 21, 26198.	3.4	32
22	Use of subpixel techniques in pocket cameras to measure vibrations and displacements. Proceedings of SPIE, 2012, , .	0.8	0
23	Corneal topography reinterpretation through separate analysis of the projected rings. Proceedings of SPIE, 2012, , .	0.8	0
24	High speed image techniques for construction safety net monitoring in outdoor conditions. Proceedings of SPIE, 2012, , .	0.8	3
25	Resolution limits to object tracking with subpixel accuracy. Optics Letters, 2012, 37, 4877.	3.3	24
26	Measurement of wide frequency range structural microvibrations with a pocket digital camera and sub-pixel techniques. Applied Optics, 2012, 51, 2664.	1.8	33
27	Propagation, structural similarity, and image quality. , 2012, , .		0
28	Pupil detection and tracking for analysis of fixational eye micromovements. Optik, 2012, 123, 11-15.	2.9	20
29	Optical Scanning for Structural Vibration Measurement. Research in Nondestructive Evaluation, 2011, 22, 61-75.	1.1	9
30	Blinking kinematics description through non-invasive measurement. Journal of Modern Optics, 2011, 58, 1857-1863.	1.3	14
31	Weighted Zernike polynomial fitting in steep corneas sampled in Cartesian grid. Journal of Modern Optics, 2011, 58, 1710-1715.	1.3	5
32	Optical surface reconstruction technique through combination of zonal and modal fitting. Journal of Biomedical Optics, 2010, 15, 1.	2.6	22
33	Custom designed dynamic videokeratometer. Journal of Modern Optics, 2010, 57, 94-102.	1.3	6
34	Noninvasive measurement of eye retraction during blinking. Optics Letters, 2010, 35, 1884.	3.3	20
35	Corneal primary aberrations compensation by oblique light incidence. Journal of Biomedical Optics, 2009, 14, 044003.	2.6	9
36	Correlation between the dioptric power, astigmatism and surface shape of the anterior and posterior corneal surfaces. Ophthalmic and Physiological Optics, 2009, 29, 219-226.	2.0	15

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37	Adaptive sampling in convergent beams. Optics Letters, 2008, 33, 1960.	3.3	4
38	Real time modulable multifocality through annular optical elements. Optics Express, 2008, 16, 5095.	3.4	3
39	Propagation and phase reconstruction of ocular wavefronts with SAR techniques. Journal of Modern Optics, 2008, 55, 717-725.	1.3	1
40	Pseudoaccommodation and Visual Acuity With Technovision PresbyLASIK and a Theoretical Simulated Array® Multifocal Intraocular Lens. Journal of Refractive Surgery, 2008, 24, 344-349.	2.3	22
41	Three dimensional analysis of chromatic aberration in diffractive elements with extended depth of focus. Optics Express, 2007, 15, 17842.	3.4	18
42	Geometrical approximations for accurate evaluation of refraction in the human cornea. Optik, 2007, 118, 209-215.	2.9	6
43	Scale corrections for faster evaluation of convergent Fresnel patterns. Journal of Modern Optics, 2006, 53, 259-266.	1.3	7
44	Determination of chromatic aberration in the human eye by means of Fresnel propagation theory. , 2005, , .		1