JuliÃ¡n Espinosa

List of Publications by Year
in descending order

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44	396	687363 13	839539 18
papers	citations	h-index	g-index

44	44	44	306
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of wide frequency range structural microvibrations with a pocket digital camera and sub-pixel techniques. Applied Optics, 2012, 51, 2664.	1.8	33
2	Vibration frequency measurement using a local multithreshold technique. Optics Express, 2013, 21, 26198.	3.4	32
3	Resolution limits to object tracking with subpixel accuracy. Optics Letters, 2012, 37, 4877.	3.3	24
4	Optical surface reconstruction technique through combination of zonal and modal fitting. Journal of Biomedical Optics, 2010, 15, 1.	2.6	22
5	Pseudoaccommodation and Visual Acuity With Technovision PresbyLASIK and a Theoretical Simulated ArrayÂ® Multifocal Intraocular Lens. Journal of Refractive Surgery, 2008, 24, 344-349.	2.3	22
6	Noninvasive measurement of eye retraction during blinking. Optics Letters, 2010, 35, 1884.	3.3	20
7	Pupil detection and tracking for analysis of fixational eye micromovements. Optik, 2012, 123, 11-15.	2.9	20
8	Realistic limits for subpixel movement detection. Applied Optics, 2016, 55, 4974.	2.1	20
9	Methods and algorithms for video-based multi-point frequency measuring and mapping. Measurement: Journal of the International Measurement Confederation, 2016, 85, 164-174.	5.0	19
10	Three dimensional analysis of chromatic aberration in diffractive elements with extended depth of focus. Optics Express, 2007, 15, 17842.	3.4	18
11	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
12	Blinking characterization from high speed video records. Application to biometric authentication. PLoS ONE, 2018, 13, e0196125.	2.5	15
13	Blinking kinematics description through non-invasive measurement. Journal of Modern Optics, 2011, 58, 1857-1863.	1.3	14
14	Targetless image-based method for measuring displacements and strains on concrete surfaces with a consumer camera. Construction and Building Materials, 2015, 75, 213-219.	7.2	14
15	A high-resolution binocular video-oculography system: assessment of pupillary light reflex and detection of an early incomplete blink and an upward eye movement. BioMedical Engineering OnLine, 2015, 14, 22.	2.7	11
16	Corneal primary aberrations compensation by oblique light incidence. Journal of Biomedical Optics, 2009, 14, 044003.	2.6	9
17	Optical Scanning for Structural Vibration Measurement. Research in Nondestructive Evaluation, 2011, 22, 61-75.	1.1	9
18	Method for targetless tracking subpixel in-plane movements. Applied Optics, 2015, 54, 7760.	2.1	8

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19	Scale corrections for faster evaluation of convergent Fresnel patterns. Journal of Modern Optics, 2006, 53, 259-266.	1.3	7
20	Corneal Stability following Hyperopic LASIK with Advanced Laser Ablation Profiles Analyzed by a Light Propagation Study. Journal of Ophthalmology, 2018, 2018, 1-10.	1.3	7
21	Geometrical approximations for accurate evaluation of refraction in the human cornea. Optik, 2007, 118, 209-215.	2.9	6
22	Custom designed dynamic videokeratometer. Journal of Modern Optics, 2010, 57, 94-102.	1.3	6
23	Comparative analysis of spontaneous blinking and the corneal reflex. Royal Society Open Science, 2020, 7, 201016.	2.4	6
24	Weighted Zernike polynomial fitting in steep corneas sampled in Cartesian grid. Journal of Modern Optics, 2011, 58, 1710-1715.	1.3	5
25	Retinal image quality assessment through a visual similarity index. Journal of Modern Optics, 2013, 60, 544-550.	1.3	5
26	Image processing for safety assessment in civil engineering. Applied Optics, 2013, 52, 4385.	1.8	5
27	A method to measure small local strains in concrete surfaces using its natural texture and image crossâ€correlation. Structural Control and Health Monitoring, 2019, 26, e2410.	4.0	5
28	Adaptive sampling in convergent beams. Optics Letters, 2008, 33, 1960.	3.3	4
29	Real time modulable multifocality through annular optical elements. Optics Express, 2008, 16, 5095.	3.4	3
30	High speed image techniques for construction safety net monitoring in outdoor conditions. Proceedings of SPIE, 2012, , .	0.8	3
31	Open-access operating algorithms for commercial videokeratographer and improvement of corneal sampling. Applied Optics, 2013, 52, C24.	1.8	3
32	Innovative education networking aimed at multimedia tools for geometrical optics learning. , 2015, , .		2
33	Three-dimensional planar object tracking with sub-pixel accuracy. Optik, 2015, 126, 2684-2689.	2.9	2
34	Determination of chromatic aberration in the human eye by means of Fresnel propagation theory. , 2005, , .		1
35	Propagation and phase reconstruction of ocular wavefronts with SAR techniques. Journal of Modern Optics, 2008, 55, 717-725.	1.3	1
36	Use of subpixel techniques in pocket cameras to measure vibrations and displacements. Proceedings of SPIE, 2012, , .	0.8	0

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37	Corneal topography reinterpretation through separate analysis of the projected rings. Proceedings of SPIE, 2012, , .	0.8	0
38	Propagation, structural similarity, and image quality. , 2012, , .		0
39	Low cost subpixel method for vibration measurement. , 2014, , .		0
40	Measuring the effective focal length and shape factor of a thick lens using a microscope. Optik, 2015, 126, 1965-1969.	2.9	0
41	Bisector-Based Tracking of In Plane Subpixel Translations and Rotations. Applied Sciences (Switzerland), 2017, 7, 835.	2.5	0
42	New format in Optica Pura y Aplicada. Optica Pura Y Aplicada, 2015, 48, i-i.	0.1	0
43	OPTICS AND PHOTONICS INNOVATIVE EDUCATION NETWORKING: SYNERGIES BETWEEN UNIVERSITIES AROUND LEARNING. INTED Proceedings, 2016, , .	0.0	0
44	Prediction of Subjective Refraction From Anterior Corneal Surface, Eye Lengths, and Age Using Machine Learning Algorithms. Translational Vision Science and Technology, 2022, 11, 8.	2.2	0