

Eva Acosta

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

440
citations

858243

12
h-index

843174

20
g-index

56
all docs

56
docs citations

56
times ranked

313
citing authors

#	ARTICLE	IF	CITATIONS
1	Vector functions for direct analysis of annular wavefront slope data. Results in Optics, 2022, , 100216.	0.9	0
2	Jacobi-Fourier phase masks to increase performance of wavefront-coded optical systems for random or varying aberration alleviation. Japanese Journal of Applied Physics, 2020, 59, S00D07.	0.8	1
3	Zernike coefficients from wavefront curvature data. Applied Optics, 2020, 59, G120.	0.9	5
4	Choice of Jacobi-Fourier phase masks for wavefront coding under different f-number. Japanese Journal of Applied Physics, 2020, 59, S00D04.	0.8	0
5	Wavefront coding with Jacobi-Fourier phase masks for retinal imaging. Applied Optics, 2020, 59, G234.	0.9	1
6	Astigmatism correction in direct ophthalmoscopy. , 2019, , .		0
7	Jacobi-Fourier phase masks to increase performance of wavefront coded optical systems for random or varying aberrations alleviation. , 2019, , .		0
8	Influence of the f/# in wavefront coding with Jacobi Fourier phase masks. , 2019, , .		0
9	Effect of spherical aberration in trefoil phase plates on color wavefront coding. Japanese Journal of Applied Physics, 2018, 57, 08PF05.	0.8	2
10	Pupil size stability of the cubic phase mask solution for presbyopia. Journal of Biomedical Optics, 2018, 23, 1.	1.4	0
11	Optimizing trefoil phase plates design for color wavefront coding. , 2018, , .		0
12	Potential use of cubic phase masks for extending the range of clear vision in presbyopes: initial calculation and simulation studies. Ophthalmic and Physiological Optics, 2017, 37, 141-150.	1.0	5
13	Using Shack-Hartmann wavefront sensors and Zernike coefficients for beam characterisation: numerical procedures. Proceedings of SPIE, 2017, , .	0.8	0
14	Highly aberrated phase elements for presbyopia and astigmatism correction. , 2017, , .		0
15	Vector polynomials for direct analysis of circular wavefront slope data. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1908.	0.8	10
16	Vector polynomials for direct analysis of circular wavefront slope data: publisher's note. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1990.	0.8	0
17	Wavefront analysis from its slope data. , 2017, , .		0
18	Wavefront coding for visual optics. , 2017, , .		0

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19	Plenoptic cameras for imaging through aberrated systems. , 2015, , .		0
20	Interferometric Local Measurements of High-Order Aberrations in Progressive Addition Lenses. Optometry and Vision Science, 2015, 92, 1047-1055.	0.6	2
21	Wavefront-coding technique for inexpensive and robust retinal imaging. Optics Letters, 2014, 39, 3986.	1.7	19
22	Optimized restoration of wavefront coded images. Proceedings of SPIE, 2014, , .	0.8	0
23	Generation of spherical aberration with axially translating phase plates via extrinsic aberration. Optics Express, 2014, 22, 289.	1.7	4
24	Micro-Alvarez lenses for a tunable-dynamic-range Shack-Hartmann wavefront sensor. Japanese Journal of Applied Physics, 2014, 53, 08MG04.	0.8	5
25	Increasing the dynamic range of a point diffraction interferometer by simultaneous processing of local interferograms: Application to ophthalmic optics. , 2013, , .		0
26	Lens aberrations and their relationship with lens sutures for species with Y-suture branches. Journal of Biomedical Optics, 2013, 18, 025003.	1.4	5
27	Optical pressure sensor based on the combined system of a variable liquid lens and a point diffraction interferometer. Applied Optics, 2012, 51, 905.	0.9	1
28	Progressive Addition Lens Measurement by Point Diffraction Interferometry. Optometry and Vision Science, 2012, 89, 1532-1542.	0.6	11
29	Phase plates for generation of variable amounts of primary spherical aberration. Optics Express, 2011, 19, 13171.	1.7	11
30	Low-cost adaptive astigmatism compensator for improvement of eye fundus camera. Optics Letters, 2011, 36, 4164.	1.7	13
31	Adaptive Astigmatism-Correcting Device for Eyepieces. Optometry and Vision Science, 2011, 88, 1524-1528.	0.6	6
32	Adaptive phase plates for optical encoding systems invariant to second-order aberrations. Optics Communications, 2011, 284, 3862-3866.	1.0	3
33	Effect of the holding setup on the measurement of the crystalline lens aberrations. , 2011, , .		2
34	Optical pressure sensor based on the combined system of a variable liquid lens and a point diffraction interferometer. Proceedings of SPIE, 2011, , .	0.8	0
35	Surface geometry and optical aberrations of ex-vivo crystalline lenses. , 2010, , .		1
36	Relationship between wave aberrations and histological features in ex vivo porcine crystalline lenses. Journal of Biomedical Optics, 2010, 15, 055001.	1.4	10

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37	Wavefront measurements of phase plates combining a point-diffraction interferometer and a Hartmann-Shack sensor. <i>Applied Optics</i> , 2010, 49, 450.	2.1	14
38	Analysis of the optical properties of crystalline lenses by point-diffraction interferometry. <i>Ophthalmic and Physiological Optics</i> , 2009, 29, 235-246.	1.0	14
39	Paraxial Optics of Astigmatic Systems: Relations Between the Wavefront and the Ray Picture Approaches. <i>Optometry and Vision Science</i> , 2007, 84, E72-E78.	0.6	12
40	Improved phase imaging from intensity measurements in multiple planes. <i>Applied Optics</i> , 2007, 46, 7978.	2.1	61
41	Modified point diffraction interferometer for inspection and evaluation of ophthalmic components. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 632.	0.8	49
42	Tomographic method for measurement of the gradient refractive index of the crystalline lens II The rotationally symmetrical lens. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2551.	0.8	25
43	Paraxial Propagation of Astigmatic Wavefronts Through Noncoaxial Astigmatic Optical Systems. <i>Optometry and Vision Science</i> , 2006, 83, 119-122.	0.6	5
44	Paraxial Propagation of Astigmatic Wavefronts in Optical Systems by an Augmented Stepalong Method for Vergences. <i>Optometry and Vision Science</i> , 2005, 82, 923-932.	0.6	36
45	Tomographic method for measurement of the gradient refractive index of the crystalline lens I The spherical fish lens. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 424.	0.8	29
46	Variable aberration generators using rotated Zernike plates. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 1993.	0.8	27
47	Tomographic Method for Measurement of the Refractive Index Profile of Optical Fibre Preforms and Rod GRIN Lenses. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 4821-4824.	0.8	7
48	Modal wavefront projectors of minimum error norm. <i>Optics Communications</i> , 1998, 155, 251-254.	1.0	7
49	Integral evaluation of the modal phase coefficients in curvature sensing: Albrecht's cubatures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 1467.	0.8	7
50	Numerical Method to Fit the Refractive Index Profile of Planar Microlenses Made by Ion Exchange Techniques. <i>Optical Review</i> , 1996, 3, 227-231.	1.2	1
51	Modal phase estimation from wavefront curvature sensing. <i>Optics Communications</i> , 1996, 123, 453-456.	1.0	12
52	Coupling Efficiency between Domed Structure LEDs and Gradient Index Fibers. <i>Japanese Journal of Applied Physics</i> , 1992, 31, 1572-1576.	0.8	0
53	Image and Fourier Transform Formation by GRIN Lenses: Pupil Effect. <i>Journal of Modern Optics</i> , 1987, 34, 1501-1510.	0.6	3
54	Effective radius and numerical aperture of GRIN lenses with revolution symmetry. <i>Applied Optics</i> , 1987, 26, 2952.	2.1	9

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55	Lens law and Fourier condition for tapered grin lenses. Optics Communications, 1987, 63, 1-5.	1.0	5