

Guang-Ming Dai

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

653
citations

840776

11
h-index

1058476

14
g-index

18
all docs

18
docs citations

18
times ranked

352
citing authors

#	ARTICLE	IF	CITATIONS
1	Orthonormal polynomials in wavefront analysis: analytical solution. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 2994.	1.5	121
2	Modal wave-front reconstruction with Zernike polynomials and Karhunen-Loève functions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 1218.	1.5	106
3	Nonrecursive determination of orthonormal polynomials with matrix formulation. Optics Letters, 2007, 32, 74.	3.3	54
4	Scaling Zernike expansion coefficients to smaller pupil sizes: a simpler formula. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 539.	1.5	49
5	Orthonormal polynomials in wavefront analysis: error analysis. Applied Optics, 2008, 47, 3433.	2.1	43
6	Orthonormal polynomials for hexagonal pupils. Optics Letters, 2006, 31, 2462.	3.3	36
7	Zernike annular polynomials and atmospheric turbulence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 139.	1.5	36
8	Comparison of Wavefront Reconstructions With Zernike Polynomials and Fourier Transforms. Journal of Refractive Surgery, 2006, 22, 943-948.	2.3	30
9	Zernike aberration coefficients transformed to and from Fourier series coefficients for wavefront representation. Optics Letters, 2006, 31, 501.	3.3	22
10	Wavefront expansion basis functions and their relationships. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1657.	1.5	20
11	Wavefront propagation from one plane to another with the use of Zernike polynomials and Taylor monomials. Applied Optics, 2009, 48, 477.	2.1	11
12	Validity of Scaling Zernike Coefficients to a Larger Diameter for Refractive Surgery. Journal of Refractive Surgery, 2011, 27, 837-841.	2.3	8
13	Theoretical analysis for spherical aberration induction with low-order correction in refractive surgery. Applied Optics, 2012, 51, 3966.	1.8	3
14	Wavefront Reconstruction Methods. Journal of Refractive Surgery, 2009, 25, 9-10.	2.3	1
15	Orthonormal polynomials for hexagonal pupils: addendum. Optics Letters, 2008, 33, 1077.	3.3	0
16	Pitfalls in Using Zernike Circle Polynomials Over Noncircular Pupils. , 2007, , .		0
17	Orthonormal Polynomials for Wavefront Analysis in Optical Testing. , 2007, , .		0