Raul I Hernandez-Aranda

List of Publications by Year in descending order

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49 papers

726 citations

623734 14 h-index 27 g-index

51 all docs 51 docs citations

51 times ranked 567 citing authors

#	Article	IF	CITATIONS
1	Characterizing quantum channels with non-separable states of classical light. Nature Physics, 2017, 13, 397-402.	16.7	218
2	Optical Rankine Vortex and Anomalous Circulation of Light. Physical Review Letters, 2007, 99, 163901.	7.8	64
3	Digital generation of partially coherent vortex beams. Optics Letters, 2016, 41, 3471.	3.3	58
4	A deterministic detector for vector vortex states. Scientific Reports, 2017, 7, 13882.	3.3	44
5	Propagation of generalized vector Helmholtz-Gauss beams through paraxial optical systems. Optics Express, 2006, 14, 8974.	3.4	42
6	Quantum computation with classical light: The Deutsch Algorithm. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1675-1680.	2.1	38
7	On-demand tailored vector beams. Applied Optics, 2017, 56, 6967.	1.8	30
8	Theory of the unstable Bessel resonator. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 1909.	1.5	25
9	Free-space local nonseparability dynamics of vector modes. Photonics Research, 2021, 9, 439.	7.0	21
10	Dynamics of polarization singularities in composite optical vortices. Journal of Optics (United) Tj ETQq0 0 0 rgBT	Overlock	R 10 Tf 50 382
11	Quantum computation with classical light: Implementation of the Deutsch–Jozsa algorithm. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1925-1931.	2.1	17
12	Geometric phase morphology of Jones matrices. Optics Letters, 2017, 42, 2667.	3.3	17
13	The first iteration of Grover's algorithm using classical light with orbital angular momentum. Journal of Modern Optics, 2018, 65, 1942-1948.	1.3	15
14	Experimental generation of helical Mathieu–Gauss vector modes. Journal of Optics (United Kingdom), 2021, 23, 034004.	2.2	15
15	Optical interference with digital holograms. American Journal of Physics, 2016, 84, 508-516.	0.7	14
16	Adsorptive removal of emerging pollutants from groundwater by using modified titanate nanotubes. Journal of Environmental Chemical Engineering, 2018, 6, 5332-5340.	6.7	14
17	Accessible quantitative phase imaging in confocal microscopy with sinusoidal-phase synthetic optical holography. Applied Optics, 2019, 58, A55.	1.8	13
18	Parabolic-accelerating vector waves. Nanophotonics, 2022, 11, 681-688.	6.0	12

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19	Determination of angular momentum content in partially coherent beams through cross correlation measurements. Proceedings of SPIE, 2013, , .	0.8	10
20	Focal shift in vector Mathieu-Gauss beams. Optics Express, 2008, 16, 5838.	3.4	8
21	Partially coherent Ince–Gaussian beams. Optics Letters, 2020, 45, 3276.	3.3	7
22	Orbital angular momentum of optical vortices from power measurements and the cross-correlation function. Optics Letters, 2014, 39, 1929.	3.3	6
23	Morphological transformation of generalized spirally polarized beams by anisotropic media and its experimental characterization. Optics Express, 2019, 27, 33412.	3.4	5
24	A non-separability measure for spatially disjoint vectorial fields. New Journal of Physics, 2022, 24, 063032.	2.9	5
25	Measurement of orbital angular momentum with an off-axis superposition of vector modes. Journal of Optics (United Kingdom), 2014, 16, 045702.	2,2	4
26	Measuring topological charge using Stokes parameters. , 2013, , .		2
27	3D thickness map reconstruction of dielectric thin films using scattering of surface plasmon polaritons. Optics Letters, 2018, 43, 691.	3.3	2
28	Focal shift in vector Mathieu-Gauss beams. , 2007, , .		1
29	Analysis of eigenfields in the axicon-based Bessel-Gauss resonator by the transfer-matrix method: comment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1209.	1.5	1
30	Structured light in the spatially partially coherent regime. Journal of Optics (United Kingdom), 0, , .	2.2	1
31	Wave and geometrical analysis of the unstable Bessel resonator. , 2005, , .		O
32	Propagation dynamics of vector Mathieu-Gauss beams. , 2006, 6290, 305.		0
33	Comment on "Eigenfields and output beams of an unstable Bessel-Gauss resonator". Applied Optics, 2007, 46, 1139.	2.1	O
34	Focal shift effect in vector parabolic-Gauss beams. Proceedings of SPIE, 2008, , .	0.8	0
35	Intra-cavity generation of a superposition of Bessel-Gauss beams. Proceedings of SPIE, 2012, , .	0.8	O
36	Focal shift of dual auto-focusing Airy beams. , 2014, , .		O

#	Article	IF	Citations
37	Quasi-one-dimensional optical lattices for soliton manipulation. Optics Letters, 2014, 39, 6545.	3.3	O
38	Cross-correlation measurements and the topological charge of a Laguerre-Gaussian beam. , 2014, , .		0
39	Digital control of spatial coherence in vortex beams. Proceedings of SPIE, 2016, , .	0.8	O
40	Internal energy flows in composite optical vortices. Proceedings of SPIE, 2016, , .	0.8	O
41	Digital holography techniques for optical interference. Proceedings of SPIE, 2016, , .	0.8	O
42	Implementation of Deutsch and Deutsch-Jozsa algorithms with classical light. Proceedings of SPIE, 2016, , .	0.8	0
43	Modal decomposition of a partially coherent Ince-Gaussian beams. , 2021, , .		O
44	Morphological segmentation and digital image processing to retrieve geometric characteristics of fabric filaments. , 2005, , .		0
45	Hybrid entanglement for quantum information and communication applications. , 2017, , .		O
46	Generation of arbitrary vector beams. , 2017, , .		0
47	Analysis of the geometric phase produced by homogeneous and inhomogeneous Jones matrices for applications in space-variant polarized beams. , 2017, , .		O
48	Spatial coherence properties of digitally generated partially coherent vortex beams., 2018,,.		0
49	Generation of partially coherent Ince-Gaussian beams. , 2019, , .		O