

Carmelo Rosales-Guzmán

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2548283/publications.pdf>

Version: 2024-02-01

77
papers

4,210
citations

136950

32
h-index

123424

61
g-index

78
all docs

78
docs citations

78
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	Parabolic-accelerating vector waves. <i>Nanophotonics</i> , 2022, 11, 681-688.	6.0	12
2	Generation of Optical Skyrmions with Tunable Topological Textures. <i>ACS Photonics</i> , 2022, 9, 296-303.	6.6	49
3	Generation and characterization of complex vector modes with digital micromirror devices: a tutorial. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 034001.	2.2	11
4	Conformal frequency conversion for arbitrary vectorial structured light. <i>Optica</i> , 2022, 9, 187.	9.3	27
5	Propagation-invariant high-dimensional orbital angular momentum states. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 034001.	2.2	11
6	Nonseparable States of Light: From Quantum to Classical. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	52
7	A non-separability measure for spatially disjoint vectorial fields. <i>New Journal of Physics</i> , 2022, 24, 063032.	2.9	5
8	Revealing the invariance of vectorial structured light in complex media. <i>Nature Photonics</i> , 2022, 16, 538-546.	31.4	39
9	Highly-stable generation of vector beams through a common-path interferometer and a DMD. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 074007.	2.2	2
10	Generating arbitrary arrays of circular Airy Gaussian vortex beams with a single digital hologram. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	2.2	9
11	Experimental generation of helical Mathieu "Gauss vector modes. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 034004.	2.2	15
12	Free-space local nonseparability dynamics of vector modes. <i>Photonics Research</i> , 2021, 9, 439.	7.0	21
13	Heralded Generation of Vectorially Structured Photons With a High Purity. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	4
14	A tribute to Marat Soskin. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 050201.	2.2	1
15	High-speed generation of singular beams through random spatial multiplexing. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 044002.	2.2	9
16	Gouy-phase-mediated propagation variations and revivals of transverse structure in vectorially structured light. <i>Physical Review A</i> , 2021, 103, .	2.5	25
17	Optical trapping with structured light: a review. <i>Advanced Photonics</i> , 2021, 3, .	11.8	317
18	Accelerating vector beams along parabolic trajectories. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Free-space local nonseparability dynamics of parabolic vector modes. , 2021, , .		0
20	All-digital 3-dimensional profilometry of nano-scaled surfaces with spatial light modulators. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	5
21	Radial modal transitions of Laguerre-Gauss modes during parametric up-conversion: Towards the full-field selection rule of spatial modes. Physical Review A, 2020, 101, .	2.5	29
22	Spatial-Polarization-Independent Parametric Up-Conversion of Vectorially Structured Light. Physical Review Applied, 2020, 13, .	3.8	26
23	Classically entangled Inceâ€“Gaussian modes. Applied Physics Letters, 2020, 116, .	3.3	33
24	Determining the non-separability of vector modes with digital micromirror devices. Applied Physics Letters, 2020, 116, .	3.3	26
25	Polarisation-insensitive generation of complex vector modes from a digital micromirror device. Scientific Reports, 2020, 10, 10434.	3.3	40
26	Does the structure of light influence the speckle size?. Scientific Reports, 2020, 10, 199.	3.3	17
27	High-dimensional cryptography with spatial modes of light: tutorial. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A309.	2.1	41
28	All-digital Stokes polarimetry with a digital micromirror device. Optics Letters, 2020, 45, 2319.	3.3	23
29	Parametric upconversion of Inceâ€“Gaussian modes. Optics Letters, 2020, 45, 3034.	3.3	20
30	Polarization reconstruction with a digital micro-mirror device. , 2020, , .		2
31	Vectorial nonlinear optics: Type-II second-harmonic generation driven by spin-orbit-coupled fields. Physical Review A, 2019, 100, .	2.5	40
32	Manipulation of Orbital-Angular-Momentum Spectrum Using Pinhole Plates. Physical Review Applied, 2019, 12, .	3.8	97
33	Basis-independent tomography and nonseparability witnesses of pure complex vectorial light fields by Stokes projections. Physical Review A, 2019, 100, .	2.5	52
34	Generation of structured light by multilevel orbital angular momentum holograms. Optics Express, 2019, 27, 6459.	3.4	23
35	Real-time Stokes polarimetry using a digital micromirror device. Optics Express, 2019, 27, 31087.	3.4	36
36	In situ detection of a cooperative targetâ€™s longitudinal and angular speed using structured light. Optics Letters, 2019, 44, 3070.	3.3	56

#	ARTICLE	IF	CITATIONS
37	Simultaneous determination of 3-dimensional velocity components using a single vector beam. , 2019, , .		0
38	On-demand vector holographic optical tweezers. , 2019, , .		0
39	Creation and Detection of Vector Vortex Modes for Classical and Quantum Communication. Journal of Lightwave Technology, 2018, 36, 292-301.	4.6	207
40	Tackling Africa's digital divide. Nature Photonics, 2018, 12, 249-252.	31.4	44
41	A hybrid quantum eraser scheme for characterization of free-space and fiber communication channels. Optics Communications, 2018, 408, 53-57.	2.1	3
42	A vector holographic optical trap. Scientific Reports, 2018, 8, 17387.	3.3	60
43	Recovery of nonseparability in self-healing vector Bessel beams. Physical Review A, 2018, 98, .	2.5	39
44	A review of complex vector light fields and their applications. Journal of Optics (United Kingdom), 2018, 20, 123001.	2.2	296
45	Evolution of orbital angular momentum in three-dimensional structured light. Physical Review A, 2018, 98, .	2.5	25
46	Entanglement beating in free space through spin-orbit coupling. Light: Science and Applications, 2018, 7, 18009-18009.	16.6	88
47	Classical and quantum analysis of propagation invariant vector flat-top beams. Applied Optics, 2018, 57, 5451.	1.8	26
48	Modal Diversity for Robust Free-Space Optical Communications. Physical Review Applied, 2018, 10, .	3.8	31
49	Self-healing high-dimensional quantum key distribution using hybrid spin-orbit Bessel states. Optics Express, 2018, 26, 26946.	3.4	50
50	Complex light-assisted optical metrology techniques. , 2018, , .		0
51	Generation of propagation invariant vector flat-top beams. , 2018, , .		0
52	Generation of multiple vector beams using a single hologram. , 2018, , .		1
53	Characterizing quantum channels with non-separable states of classical light. Nature Physics, 2017, 13, 397-402.	16.7	218
54	Exploiting the spatial profiles of light. Proceedings of SPIE, 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Measuring the non-separability of optical fields. , 2017, , .		0
56	Multiplexing of spatial modes in the mid-IR region. , 2017, , .		1
57	Multiplexing 200 spatial modes with a single hologram. Journal of Optics (United Kingdom), 2017, 19, 113501.	2.2	48
58	Roadmap on structured light. Journal of Optics (United Kingdom), 2017, 19, 013001.	2.2	888
59	Simultaneous generation of multiple vector beams on a single SLM. Optics Express, 2017, 25, 25697.	3.4	122
60	Radially dependent angular acceleration of twisted light. Optics Letters, 2017, 42, 675.	3.3	43
61	Optical communications beyond orbital angular momentum. , 2016, , .		2
62	Hong-Ou-Mandel interference of entangled Hermite-Gauss modes. Physical Review A, 2016, 94, .	2.5	25
63	Optical metrology with structured light. , 2016, , .		1
64	Vector quality measure for vector beams. , 2016, , .		0
65	On the resilience of scalar and vector vortex modes in turbulence. Optics Express, 2016, 24, 18105.	3.4	69
66	Beam quality measure for vector beams. Optics Letters, 2016, 41, 3407.	3.3	89
67	Optical communication beyond orbital angular momentum. Scientific Reports, 2016, 6, 27674.	3.3	179
68	Free-space communication with over 100 spatial modes. , 2016, , .		0
69	Measurement of flow vorticity with helical beams of light. Optica, 2015, 2, 1002.	9.3	73
70	Nanostep height measurement via spatial mode projection. Optics Letters, 2014, 39, 299.	3.3	17
71	Measuring the translational and rotational velocities of particles in helical motion using structured light. Optics Express, 2014, 22, 16504.	3.4	40
72	Direction-sensitive transverse velocity measurement by phase-modulated structured light beams. Optics Letters, 2014, 39, 5415.	3.3	48

#	ARTICLE	IF	CITATIONS
73	Experimental detection of transverse particle movement with structured light. Scientific Reports, 2013, 3, 2815.	3.3	69
74	Collision of propagating vortices embedded within Airy beams. Journal of Optics (United Kingdom), 2013, 15, 044001.	2.2	21
75	Helico-conical optical beams self-heal. Optics Letters, 2013, 38, 383.	3.3	39
76	A New Type of Light With Optical Chirality. , 2012, , .		0
77	Light with enhanced optical chirality. Optics Letters, 2012, 37, 3486.	3.3	51