

Miguel A Bandres

List of Publications by Year in descending order

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91
papers

5,949
citations

94433

37
h-index

168389

53
g-index

92
all docs

92
docs citations

92
times ranked

3165
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological insulator laser: Experiments. <i>Science</i> , 2018, 359, .	12.6	949
2	Topological insulator laser: Theory. <i>Science</i> , 2018, 359, .	12.6	634
3	Edge-Mode Lasing in 1D Topological Active Arrays. <i>Physical Review Letters</i> , 2018, 120, 113901.	7.8	406
4	Inceâ€™Gaussian beams. <i>Optics Letters</i> , 2004, 29, 144.	3.3	345
5	Parabolic nondiffracting optical wave fields. <i>Optics Letters</i> , 2004, 29, 44.	3.3	319
6	Airy-Gauss beams and their transformation by paraxial optical systems. <i>Optics Express</i> , 2007, 15, 16719.	3.4	247
7	Helmholtzâ€™Gauss waves. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 289.	1.5	226
8	Photonic topological insulator in synthetic dimensions. <i>Nature</i> , 2019, 567, 356-360.	27.8	215
9	Inceâ€™Gaussian modes of the paraxial wave equation and stable resonators. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 873.	1.5	184
10	Topological Photonic Quasicrystals: Fractal Topological Spectrum and Protected Transport. <i>Physical Review X</i> , 2016, 6, .	8.9	151
11	Observation of Inceâ€™Gaussian modes in stable resonators. <i>Optics Letters</i> , 2004, 29, 1870.	3.3	138
12	Accelerating parabolic beams. <i>Optics Letters</i> , 2008, 33, 1678.	3.3	130
13	Generation of helical Ince-Gaussian beams with a liquid-crystal display. <i>Optics Letters</i> , 2006, 31, 649.	3.3	120
14	\mathbb{Z}_8 superconformal Chern-Simons theories. <i>Journal of High Energy Physics</i> , 2008, 2008, 025-025.	4.7	111
15	Nondiffracting accelerating waves: Weber waves and parabolic momentum. <i>New Journal of Physics</i> , 2013, 15, 013054.	2.9	104
16	Accelerating beams. <i>Optics Letters</i> , 2009, 34, 3791.	3.3	103
17	Studies of the ABJM theory in a formulation with manifest $SU(4)$ R-symmetry. <i>Journal of High Energy Physics</i> , 2008, 2008, 027-027.	4.7	99
18	Circular beams. <i>Optics Letters</i> , 2008, 33, 177.	3.3	89

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19	Ghost-free superconformal action for multiple $M=2$ -branes. Journal of High Energy Physics, 2008, 2008, 117-117.	4.7	84
20	Observation of parabolic nondiffracting optical fields. Optics Express, 2005, 13, 2364.	3.4	79
21	Topological photonics: Where do we go from here?. Nanophotonics, 2020, 10, 425-434.	6.0	76
22	Accelerating Optical Beams. Optics and Photonics News, 2013, 24, 30.	0.5	74
23	Light guiding by artificial gauge fields. Nature Photonics, 2019, 13, 339-345.	31.4	69
24	Elegant Ince-Gaussian beams. Optics Letters, 2004, 29, 1724.	3.3	67
25	Observation of accelerating parabolic beams. Optics Express, 2008, 16, 12866.	3.4	59
26	Observation of branched flow of light. Nature, 2020, 583, 60-65.	27.8	58
27	Vector Helmholtz-Gauss and vector Laplace-Gauss beams. Optics Letters, 2005, 30, 2155.	3.3	51
28	Spherical fields as nonparaxial accelerating waves. Optics Letters, 2012, 37, 5175.	3.3	50
29	Cartesian beams. Optics Letters, 2007, 32, 3459.	3.3	49
30	Three-dimensional accelerating electromagnetic waves. Optics Express, 2013, 21, 13917.	3.4	49
31	Higher-order complex source for elegant Laguerre-Gaussian waves. Optics Letters, 2004, 29, 2213.	3.3	45
32	Ince-Gaussian beams in a quadratic-index medium. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 306.	1.5	45
33	Generation of accelerating Airy and accelerating parabolic beams using phase-only patterns. Applied Optics, 2009, 48, 3170.	2.1	43
34	Propagation of generalized vector Helmholtz-Gauss beams through paraxial optical systems. Optics Express, 2006, 14, 8974.	3.4	42
35	Elliptical beams. Optics Express, 2008, 16, 21087.	3.4	41
36	Ince-Gaussian series representation of the two-dimensional fractional Fourier transform. Optics Letters, 2005, 30, 540.	3.3	40

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37	Mode-Locked Topological Insulator Laser Utilizing Synthetic Dimensions. <i>Physical Review X</i> , 2020, 10, .	8.9	38
38	Paraxial group. <i>Optics Letters</i> , 2009, 34, 13.	3.3	37
39	Normalization of the Mathieu-Gauss optical beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 215.	1.5	27
40	Propagation. <i>Optics and Photonics News</i> , 2004, 15, 36.	0.5	26
41	Curved-space topological phases in photonic lattices. <i>Physical Review A</i> , 2017, 96, .	2.5	25
42	Integrated predictive modeling of high-mode tokamak plasmas using a combination of core and pedestal models. <i>Physics of Plasmas</i> , 2003, 10, 4358-4370.	1.9	21
43	Accelerating light beams with arbitrarily transverse shapes. <i>Optics Express</i> , 2014, 22, 3490.	3.4	21
44	One-loop corrections to type IIA string theory in AdS $4 \tilde{A}$ – CP 3. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	20
45	Topological protection versus degree of entanglement of two-photon light in photonic topological insulators. <i>Nature Communications</i> , 2021, 12, 1974.	12.8	19
46	Observation of Accelerating Wave Packets in Curved Space. <i>Physical Review X</i> , 2018, 8, .	8.9	18
47	Classical solutions for a free particle in a confocal elliptic billiard. <i>American Journal of Physics</i> , 2004, 72, 810-817.	0.7	14
48	Propagation of Whittaker-Gaussian beams. <i>Proceedings of SPIE</i> , 2009, , .	0.8	11
49	Higher-order moments and overlaps of rotationally symmetric beams. <i>Journal of Optics (United Kingdom)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 11	2.2	11
50	Non-Hermitian Topological Systems. <i>Physics Magazine</i> , 0, 11, .	0.1	11
51	Generation of nonparaxial accelerating fields through mirrors II: Three dimensions. <i>Optics Express</i> , 2014, 22, 14738.	3.4	9
52	Generation of nonparaxial accelerating fields through mirrors I: Two dimensions. <i>Optics Express</i> , 2014, 22, 7124.	3.4	9
53	Higher-order moments and overlaps of Cartesian beams. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 065702.	2.2	7
54	Topological Insulators in PT -Symmetric Lattices. , 2015, , .		5

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55	Formation of Ince-Gaussian modes in a stable laser oscillator. , 2005, , .		4
56	Generalized Ince Gaussian beams. , 2006, , .		4
57	Topological Lasers. , 2016, , .		4
58	Topological Insulator Laser. , 2018, , .		4
59	Generation of helical Ince-Gaussian beams: beam-shaping with a liquid crystal display. , 2006, , .		3
60	Interaction of light with thin liquid membranes. , 2018, , .		3
61	Comment on 'Exact solution of resonant modes in a rectangular resonator'. Optics Letters, 2006, 31, 2468.	3.3	1
62	Lieb Photonic Topological Insulator. , 2014, , .		1
63	Laser Tractor-Beam of 2D Flow in Soap Films. , 2021, , .		1
64	Topological protection of highly entangled non-Gaussian two-photon states. Materials for Quantum Technology, 2021, 1, 035001.	3.1	1
65	Dynamic Waveguiding. , 2016, , .		1
66	Topologically protected photonic propagation in the bulk. , 2017, , .		1
67	Guest Editorial for APL Special Topic on Synthetic Gauge Field Photonics. APL Photonics, 0, , .	5.7	1
68	Experimental verification of parabolic nondiffracting beams. , 2004, , .		0
69	Propagation dynamics of vector Mathieu-Gauss beams. , 2006, 6290, 305.		0
70	Propagation of focused vector Helmholtz-Gauss Beams. , 2006, , JWD2.		0
71	Visualization of optical fields with ellipsoidal geometry. , 2012, , .		0
72	3D Accelerating Electromagnetic Waves. , 2013, , .		0

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73	Photonic Topological Insulators. , 2014, , .		0
74	Topological Control of Bloch Oscillations of Edge Modes in Photonic Lattices. , 2015, , .		0
75	Observing Light Dynamics in Micro-sized Schwarzschild Metric. , 2015, , .		0
76	New Ideas on Photonic Topological Insulators. , 2016, , .		0
77	Observation of the fundamental length scale of Branched Flow of light. , 2021, , .		0
78	Ince-Gaussian Modes of Stable Laser Resonators. , 2004, , .		0
79	Propagation characteristics of the vector Helmholtz-Gauss optical beams. , 2005, , .		0
80	Beamshaping generation of Hermite, Laguerre, and Ince Gaussian beams with a liquid crystal display. , 2006, , .		0
81	Observations of accelerating parabolic beams. , 2008, , .		0
82	Topological Transport in Photonic Quasicrystals. , 2015, , .		0
83	Frame Dragging in Optical Newton-Schrödinger System?. , 2016, , .		0
84	Nondiffracting Accelerating Beams on Spherical Surfaces. , 2016, , .		0
85	Artificial Gauge Fields and Photonic Topological Phenomena. , 2016, , .		0
86	Photonic Topological Dynamics induced by Curved Surfaces. , 2016, , .		0
87	Sublattice-Time Symmetry and the Hidden PT-symmetry in Non-Hermitian Bipartite Optical Lattices. , 2016, , .		0
88	Nondiffracting Beams in a Thin Liquid Soap Films. , 2017, , .		0
89	Photonic topologically protected bulk propagation. , 2017, , .		0
90	Embedded Photonic Topological Insulators. , 2017, , .		0

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91	Branched Flow of Light. Optics and Photonics News, 2020, 31, 32.	0.5	0