

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

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92
all docs

92
docs citations

92
times ranked

3165
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the fundamental length scale of Branched Flow of light. , 2021, , .		0
2	Laser Tractor-Beam of 2D Flow in Soap Films. , 2021, , .		1
3	Topological protection versus degree of entanglement of two-photon light in photonic topological insulators. Nature Communications, 2021, 12, 1974.	12.8	19
4	Topological protection of highly entangled non-Gaussian two-photon states. Materials for Quantum Technology, 2021, 1, 035001.	3.1	1
5	Mode-Locked Topological Insulator Laser Utilizing Synthetic Dimensions. Physical Review X, 2020, 10, .	8.9	38
6	Observation of branched flow of light. Nature, 2020, 583, 60-65.	27.8	58
7	Topological photonics: Where do we go from here?. Nanophotonics, 2020, 10, 425-434.	6.0	76
8	Branched Flow of Light. Optics and Photonics News, 2020, 31, 32.	0.5	0
9	Light guiding by artificial gauge fields. Nature Photonics, 2019, 13, 339-345.	31.4	69
10	Photonic topological insulator in synthetic dimensions. Nature, 2019, 567, 356-360.	27.8	215
11	Topological insulator laser: Theory. Science, 2018, 359, .	12.6	634
12	Topological insulator laser: Experiments. Science, 2018, 359, .	12.6	949
13	Observation of Accelerating Wave Packets in Curved Space. Physical Review X, 2018, 8, .	8.9	18
14	Edge-Mode Lasing in 1D Topological Active Arrays. Physical Review Letters, 2018, 120, 113901.	7.8	406
15	Interaction of light with thin liquid membranes. , 2018, , .		3
16	Topological Insulator Laser. , 2018, , .		4
17	Curved-space topological phases in photonic lattices. Physical Review A, 2017, 96, .	2.5	25
18	Topologically protected photonic propagation in the bulk. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Nondiffracting Beams in a Thin Liquid Soap Films. , 2017, , .		0
20	Photonic topologically protected bulk propagation. , 2017, , .		0
21	Embedded Photonic Topological Insulators. , 2017, , .		0
22	New Ideas on Photonic Topological Insulators. , 2016, , .		0
23	Topological Photonic Quasicrystals: Fractal Topological Spectrum and Protected Transport. Physical Review X, 2016, 6, .	8.9	151
24	Topological Lasers. , 2016, , .		4
25	Frame Dragging in Optical Newton-Schrödinger System?. , 2016, , .		0
26	Nondiffracting Accelerating Beams on Spherical Surfaces. , 2016, , .		0
27	Artificial Gauge Fields and Photonic Topological Phenomena. , 2016, , .		0
28	Dynamic Waveguiding. , 2016, , .		1
29	Photonic Topological Dynamics induced by Curved Surfaces. , 2016, , .		0
30	Sublattice-Time Symmetry and the Hidden PT-symmetry in Non-Hermitian Bipartite Optical Lattices. , 2016, , .		0
31	Topological Insulators in <i>PT</i> -Symmetric Lattices. , 2015, , .		5
32	Topological Control of Bloch Oscillations of Edge Modes in Photonic Lattices. , 2015, , .		0
33	Observing Light Dynamics in Micro-sized Schwarzschild Metric. , 2015, , .		0
34	Topological Transport in Photonic Quasicrystals. , 2015, , .		0
35	Lieb Photonic Topological Insulator. , 2014, , .		1
36	Generation of nonparaxial accelerating fields through mirrors II: Three dimensions. Optics Express, 2014, 22, 14738.	3.4	9

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37	Generation of nonparaxial accelerating fields through mirrors I: Two dimensions. Optics Express, 2014, 22, 7124.	3.4	9
38	Accelerating light beams with arbitrarily transverse shapes. Optics Express, 2014, 22, 3490.	3.4	21
39	Photonic Topological Insulators. , 2014, , .		0
40	Nondiffracting accelerating waves: Weber waves and parabolic momentum. New Journal of Physics, 2013, 15, 013054.	2.9	104
41	Accelerating Optical Beams. Optics and Photonics News, 2013, 24, 30.	0.5	74
42	Three-dimensional accelerating electromagnetic waves. Optics Express, 2013, 21, 13917.	3.4	49
43	3D Accelerating Electromagnetic Waves. , 2013, , .		0
44	Spherical fields as nonparaxial accelerating waves. Optics Letters, 2012, 37, 5175.	3.3	50
45	Visualization of optical fields with ellipsoidal geometry. , 2012, , .		0
46	One-loop corrections to type IIA string theory in AdS 4 \tilde{A} – CP 3. Journal of High Energy Physics, 2010, 2010, 1.	4.7	20
47	Higher-order moments and overlaps of Cartesian beams. Journal of Optics (United Kingdom), 2010, 12, 065702.	2.2	7
48	Higher-order moments and overlaps of rotationally symmetric beams. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	2.2	11
49	Propagation of Whittaker-Gaussian beams. Proceedings of SPIE, 2009, , .	0.8	11
50	Paraxial group. Optics Letters, 2009, 34, 13.	3.3	37
51	Accelerating beams. Optics Letters, 2009, 34, 3791.	3.3	103
52	Generation of accelerating Airy and accelerating parabolic beams using phase-only patterns. Applied Optics, 2009, 48, 3170.	2.1	43
53	Circular beams. Optics Letters, 2008, 33, 177.	3.3	89
54	Accelerating parabolic beams. Optics Letters, 2008, 33, 1678.	3.3	130

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55	Observation of accelerating parabolic beams. Optics Express, 2008, 16, 12866.	3.4	59
56	Elliptical beams. Optics Express, 2008, 16, 21087.	3.4	41
57	Studies of the ABJM theory in a formulation with manifest SU(4) R-symmetry. Journal of High Energy Physics, 2008, 2008, 027-027.	4.7	99
58	Ghost-free superconformal action for multiple M^2 -branes. Journal of High Energy Physics, 2008, 2008, 117-117.	4.7	84
59	$\mathcal{N} = 8$ superconformal Chern-Simons theories. Journal of High Energy Physics, 2008, 2008, 025-025.	4.7	111
60	Observations of accelerating parabolic beams. , 2008, , .		0
61	Cartesian beams. Optics Letters, 2007, 32, 3459.	3.3	49
62	Normalization of the Mathieu-Gauss optical beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 215.	1.5	27
63	Airy-Gauss beams and their transformation by paraxial optical systems. Optics Express, 2007, 15, 16719.	3.4	247
64	Generation of helical Ince-Gaussian beams with a liquid-crystal display. Optics Letters, 2006, 31, 649.	3.3	120
65	Comment on 'Exact solution of resonant modes in a rectangular resonator'. Optics Letters, 2006, 31, 2468.	3.3	1
66	Propagation of generalized vector Helmholtz-Gauss beams through paraxial optical systems. Optics Express, 2006, 14, 8974.	3.4	42
67	Propagation dynamics of vector Mathieu-Gauss beams. , 2006, 6290, 305.		0
68	Generation of helical Ince-Gaussian beams: beam-shaping with a liquid crystal display. , 2006, , .		3
69	Propagation of focused vector Helmholtz-Gauss Beams. , 2006, , JWD2.		0
70	Generalized Ince Gaussian beams. , 2006, , .		4
71	Beamshaping generation of Hermite, Laguerre, and Ince Gaussian beams with a liquid crystal display. , 2006, , .		0
72	Formation of Ince-Gaussian modes in a stable laser oscillator. , 2005, , .		4

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73	Helmholtzâ€™Gauss waves. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 289.	1.5	226
74	Inceâ€™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
75	Observation of parabolic nondiffracting optical fields. Optics Express, 2005, 13, 2364.	3.4	79
76	Inceâ€™Gaussian series representation of the two-dimensional fractional Fourier transform. Optics Letters, 2005, 30, 540.	3.3	40
77	Vector Helmholtzâ€™Gauss and vector Laplaceâ€™Gauss beams. Optics Letters, 2005, 30, 2155.	3.3	51
78	Propagation characteristics of the vector Helmholtz-Gauss optical beams. , 2005, , .		0
79	Classical solutions for a free particle in a confocal elliptic billiard. American Journal of Physics, 2004, 72, 810-817.	0.7	14
80	Inceâ€™Gaussian modes of the paraxial wave equation and stable resonators. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 873.	1.5	184
81	Parabolic nondiffracting optical wave fields. Optics Letters, 2004, 29, 44.	3.3	319
82	Inceâ€™Gaussian beams. Optics Letters, 2004, 29, 144.	3.3	345
83	Elegant Inceâ€™Gaussian beams. Optics Letters, 2004, 29, 1724.	3.3	67
84	Observation of Inceâ€™Gaussian modes in stable resonators. Optics Letters, 2004, 29, 1870.	3.3	138
85	Higher-order complex source for elegant Laguerreâ€™Gaussian waves. Optics Letters, 2004, 29, 2213.	3.3	45
86	Propagation. Optics and Photonics News, 2004, 15, 36.	0.5	26
87	Experimental verification of parabolic nondiffracting beams. , 2004, , .		0
88	Ince-Gaussian Modes of Stable Laser Resonators. , 2004, , .		0
89	Integrated predictive modeling of high-mode tokamak plasmas using a combination of core and pedestal models. Physics of Plasmas, 2003, 10, 4358-4370.	1.9	21
90	Non-Hermitian Topological Systems. Physics Magazine, 0, 11, .	0.1	11

#	ARTICLE	IF	CITATIONS
91	Guest Editorial for APL Special Topic on Synthetic Gauge Field Photonics . APL Photonics, 0, , .	5.7	1