Michel Zamboni-Rached

List of Publications by Year
in descending order

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Version: 2024-02-01

57 papers	1,292 citations	304743 22 h-index	361022 35 g-index
65 all docs	65 docs citations	65 times ranked	426 citing authors

#	Article	IF	Citations
1	Arrays of frozen waves: Some theory and experiments. Optics Communications, 2021, 482, 126576.	2.1	1
2	Carving beams of light. Optics Letters, 2021, 46, 1205.	3.3	9
3	Simple and analytical method for controlling the trajectory and branching of optical beams. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 448.	2.1	1
4	Modeling Micrometer Structured Non-Diffracting Beams in Absorbing Media. , 2021, , .		0
5	Experimental optical trapping with frozen waves. Optics Letters, 2020, 45, 2514.	3.3	46
6	Wavelength and topological charge management along the axis of propagation of multichromatic non-diffracting beams. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1867.	2.1	9
7	Arbitrary Control of Polarization and Intensity Profiles of Diffraction-Attenuation-Resistant Beams along the Propagation Direction. Physical Review Applied, 2018, 9, .	3.8	18
8	Structured Light by Linking Diffraction-Resistant Spatially Shaped Beams. Physical Review Applied, 2018, 10, .	3.8	2
9	Experimental demonstration of tunable refractometer based on orbital angular momentum of longitudinally structured light. Light: Science and Applications, 2018, 7, 40.	16.6	54
10	Arbitrary control of the polarization state and intensity of non-diffracting beams along their propagation direction. , 2018, , .		0
11	Modeling the longitudinal intensity pattern of diffraction resistant beams in stratified media. Applied Optics, 2018, 57, 5643.	1.8	5
12	Transmission of spatial-shaped diffraction-resistant beams through stratified dielectric media: finite energy formulation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 2079.	1.5	4
13	Frozen Waves following arbitrary spiral and snake-like trajectories in air. Applied Physics Letters, 2017, 110, .	3.3	16
14	Optical reconstruction of non-diffracting beams via photorefractive holography. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	10
15	Shaping the longitudinal intensity pattern of Cartesian beams in lossless and lossy media. Journal of Optics (United Kingdom), 2017, 19, 095607.	2.2	0
16	Structuring light under different polarization states within micrometer domains: exact analysis from the Maxwell equations. Optics Express, 2017, 25, 10051.	3.4	27
17	Experimental demonstration of attenuation resistant frozen waves. , 2016, , .		3
18	Generating attenuation-resistant frozen waves in absorbing fluid. Optics Letters, 2016, 41, 3702.	3.3	32

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19	Controlling the topological charge of twisted light beams with propagation. Physical Review A, 2016, 93, .	2.5	44
20	Modeling of space-time focusing of localized nondiffracting pulses. Physical Review A, 2016, 94, .	2.5	5
21	Electromagnetic frozen waves with radial, azimuthal, linear, circular, and elliptical polarizations. Physical Review A, 2016, 94, .	2.5	24
22	Accelerating Airy beams in the presence of inhomogeneities. Optics Communications, 2016, 369, 56-64.	2.1	9
23	Superluminal, luminal, and subluminal nondiffracting pulses applied to free-space optical systems: theoretical description. Applied Optics, 2016, 55, 1786.	2.1	5
24	Experimental Demonstration of Attenuation-resistant Higher Order Frozen Waves. , 2016, , .		1
25	Longitudinal patterning of twisted light beams. , 2016, , .		0
26	Self-healing optical beams with snake-like and spiral paths in free space. , 2016, , .		0
27	Experimental generation of attenuation-resistant Frozen Waves inside an absorbing medium. , 2016, , .		0
28	Propagation of finite energy Airy pulses in dispersive media. , 2015, , .		0
29	On the propagation of diffraction resistant beams of the Frozen Wave-type through two dielectric media. , 2015, , .		0
30	Production of dynamic frozen waves: controlling shape, location (and speed) of diffraction-resistant beams. Optics Letters, 2015, 40, 5834.	3.3	26
31	Analytical approach of ordinary frozen waves for optical trapping and micromanipulation. Applied Optics, 2015, 54, 2584.	1.8	40
32	Propagation of time-truncated Airy-type pulses in media with quadratic and cubic dispersion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1791.	1.5	5
33	Diffraction-resistant scalar beams generated by a parabolic reflector and a source of spherical waves. Applied Optics, 2015, 54, 5949.	2.1	3
34	Optical forces experienced by arbitrary-sized spherical scatterers from superpositions of equal-frequency Bessel beams. Journal of the Optical Society of America B: Optical Physics, 2015, 32, B37.	2.1	44
35	Exact analytic solutions of Maxwellâ€™s equations describing propagating nonparaxial electromagnetic beams. Applied Optics, 2014, 53, 4524.	1.8	16
36	Producing acoustic â€˜Frozen Wavesâ€™: Simulated experiments with diffraction/attenuation resistant beams in lossy media. Ultrasonics, 2014, 54, 1620-1630.	3.9	6

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37	Modeling the spatial shape of nondiffracting beams: Experimental generation of Frozen Waves via holographic method. Optics Communications, 2014, 315, 374-380.	2.1	49
38	Airy-type beams generated by finite apertures. , 2013, , .		3
39	Producing acoustic frozen waves: simulated experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2414-2425.	3.0	11
40	Frozen waves: experimental generation. Optics Letters, 2012, 37, 2034.	3.3	83
41	Analytic description of Airy-type beams when truncated by finite apertures. Optics Express, 2012, 20, 19972.	3.4	14
42	Soliton-like solutions to the ordinary SchrÃ¶dinger equation within standard quantum mechanics. Journal of Mathematical Physics, 2012, 53, .	1.1	9
43	Non-diffracting beams resistant to attenuation in absorbing media. , 2011, , .		1
44	Overcoming Diffraction in FSO Systems Using (GRIN) Axicons for Approximating the Longitudinal Intensity Profiles. Journal of Lightwave Technology, 2011, 29, 2527-2532.	4.6	3
45	Diffractionâ€“attenuation resistant beams: their higher-order versions and finite-aperture generations. Applied Optics, 2010, 49, 5861.	2.1	42
46	Unidirectional decomposition method for obtaining exact localized wave solutions totally free of backward components. Physical Review A, 2009, 79, .	2.5	32
47	Chapter 4 Localized Waves: A Review. Advances in Imaging and Electron Physics, 2009, , 235-353.	0.2	32
48	Subluminal wave bullets: Exact localized subluminal solutions to the wave equations. Physical Review A, 2008, 77, .	2.5	39
49	Analytical expressions for the longitudinal evolution of nondiffracting pulses truncated by finite apertures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2166.	1.5	19
50	Diffraction-Attenuation resistant beams in absorbing media. Optics Express, 2006, 14, 1804.	3.4	78
51	Theory of â€œfrozen wavesâ€: modeling the shape of stationary wave fields. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2465.	1.5	94
52	Focused X-shaped pulses. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 1564.	1.5	30
53	Chirped optical X-shaped pulses in material media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2455.	1.5	22
54	Stationary optical wave fields with arbitrary longitudinal shape by superposing equal frequency Bessel beams: Frozen Waves. Optics Express, 2004, 12, 4001.	3.4	153

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55	Superluminal localized solutions to Maxwell equations propagating along a waveguide: The finite-energy case. Physical Review E, 2003, 67, 036620.	2.1	26
56	Superluminal X-shaped beams propagating without distortion along a coaxial guide. Physical Review E, 2002, 66, 046617.	2.1	29
57	Superluminal localized solutions to Maxwell equations propagating along a normal-sized waveguide. Physical Review E, 2001, 64, 066603.	2.1	32