

Fabio Baronio

List of Publications by Year in descending order

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47
papers

2,524
citations

257357

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276775

41
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47
all docs

47
docs citations

47
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	Solutions of the Vector Nonlinear Schrödinger Equations: Evidence for Deterministic Rogue Waves. <i>Physical Review Letters</i> , 2012, 109, 044102.	2.9	473
2	Vector Rogue Waves and Baseband Modulation Instability in the Defocusing Regime. <i>Physical Review Letters</i> , 2014, 113, 034101.	2.9	302
3	Roadmap on optical rogue waves and extreme events. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 063001.	1.0	225
4	Rogue Waves Emerging from the Resonant Interaction of Three Waves. <i>Physical Review Letters</i> , 2013, 111, 114101.	2.9	189
5	Versatile rogue waves in scalar, vector, and multidimensional nonlinear systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 463001.	0.7	170
6	Baseband modulation instability as the origin of rogue waves. <i>Physical Review A</i> , 2015, 91, .	1.0	150
7	Optical Dark Rogue Wave. <i>Scientific Reports</i> , 2016, 6, 20785.	1.6	113
8	Optical Kerr Spatiotemporal Dark-Lump Dynamics of Hydrodynamic Origin. <i>Physical Review Letters</i> , 2016, 116, 173901.	2.9	78
9	Resonant radiation shed by dispersive shock waves. <i>Physical Review A</i> , 2014, 89, .	1.0	67
10	Peregrine Solitons Beyond the Threefold Limit and Their Two-Soliton Interactions. <i>Physical Review Letters</i> , 2018, 121, 104101.	2.9	55
11	Stable Control of Pulse Speed in Parametric Three-Wave Solitons. <i>Physical Review Letters</i> , 2006, 97, 093901.	2.9	51
12	Chirped Peregrine solitons in a class of cubic-quintic nonlinear Schrödinger equations. <i>Physical Review E</i> , 2016, 93, 062202.	0.8	41
13	Rogue-wave bullets in a composite (2+1)D nonlinear medium. <i>Optics Express</i> , 2016, 24, 15251.	1.7	40
14	Akhmediev breathers and Peregrine solitary waves in a quadratic medium. <i>Optics Letters</i> , 2017, 42, 1756.	1.7	39
15	Velocity-Locked Solitary Waves in Quadratic Media. <i>Physical Review Letters</i> , 2010, 104, 113902.	2.9	36
16	Optical rogue waves in parametric three-wave mixing and coherent stimulated scattering. <i>Physical Review A</i> , 2015, 92, .	1.0	36
17	Fundamental Peregrine Solitons of Ultrastrong Amplitude Enhancement through Self-Steepening in Vector Nonlinear Systems. <i>Physical Review Letters</i> , 2020, 124, 113901.	2.9	34
18	Reflection of quadratic solitons at the boundary of nonlinear media. <i>Optics Letters</i> , 2004, 29, 986.	1.7	31

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19	Super chirped rogue waves in optical fibers. Optics Express, 2019, 27, 11370.	1.7	31
20	Resonant radiation from Peregrine solitons. Optics Letters, 2020, 45, 427.	1.7	29
21	Spatial trapping of short pulses in Ti-indiffused LiNbO ₃ waveguides. Optics Letters, 2002, 27, 2182.	1.7	28
22	Two-color walking Peregrine solitary waves. Optics Letters, 2017, 42, 3514.	1.7	28
23	Inelastic scattering and interactions of three-wave parametric solitons. Physical Review E, 2006, 74, 065602.	0.8	27
24	Spatiotemporal optical dark X solitary waves. Optics Letters, 2016, 41, 5571.	1.7	25
25	General rogue wave solutions of the coupled Fokas-Lenells equations and non-recursive Darboux transformation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180806.	1.0	24
26	Parametric frequency conversion of short optical pulses controlled by a CW background. Optics Express, 2007, 15, 12246.	1.7	23
27	Optical Peregrine rogue waves of self-induced transparency in a resonant erbium-doped fiber. Optics Express, 2017, 25, 29687.	1.7	23
28	Complementary optical rogue waves in parametric three-wave mixing. Optics Express, 2016, 24, 5886.	1.7	21
29	Three-Wave Trapponic Solitons for Tunable High-Repetition Rate Pulse Train Generation. IEEE Journal of Quantum Electronics, 2008, 44, 542-546.	1.0	19
30	Omnipresent coexistence of rogue waves in a nonlinear two-wave interference system and its explanation by modulation instability. Physical Review Research, 2021, 3, .	1.3	14
31	Spatial Akhmediev breathers and modulation instability growth-decay cycles in a quadratic optical medium. Physical Review Research, 2019, 1, .	1.3	14
32	Quadratic Peregrine solitons resonantly radiating without higher-order dispersion. Optics Letters, 2022, 47, 2370.	1.7	14
33	Modulational instability of dark solitons in three wave resonant interaction. Physica D: Nonlinear Phenomena, 2011, 240, 1362-1369.	1.3	12
34	Predicting defibrillation success in out-of-hospital cardiac arrested patients: Moving beyond feature design. Artificial Intelligence in Medicine, 2020, 110, 101963.	3.8	11
35	Peregrine Solitons on a Periodic Background in the Vector Cubic-Quintic Nonlinear Schrödinger Equation. Frontiers in Physics, 2020, 8, .	1.0	10
36	Optical-fluid dark line and X solitary waves in Kerr media. Optical Data Processing and Storage, 2017, 3, 1-7.	3.3	8

#	ARTICLE	IF	CITATIONS
37	General rogue wave solutions under SU(2) transformation in the vector Chen-Lee-Liu nonlinear Schrödinger equation. Physica D: Nonlinear Phenomena, 2022, 434, 133204.	1.3	8
38	Ultraslow Kuznetsov-Ma solitons and Ahkmediev breathers in a cold three-state medium exposed to nanosecond optical pulses. OSA Continuum, 2021, 4, 1488.	1.8	7
39	Photonic rogue waves in a strongly dispersive coupled-cavity array involving self-attractive Kerr nonlinearity. Physical Review A, 2022, 105, .	1.0	7
40	Ventricular defibrillation: Classification with G.E.M. and a roadmap for future investigations. , 2017, , .		5
41	Hydrodynamic and Optical Waves: A Common Approach for Unidimensional Propagation. Lecture Notes in Physics, 2016, , 1-22.	0.3	4
42	ECG waveform dataset for predicting defibrillation outcome in out-of-hospital cardiac arrested patients. Data in Brief, 2021, 34, 106635.	0.5	1
43	Observation of 2D Spatiotemporal Rogue Events in a Quadratic Nonlinear Medium. , 2020, , .		1
44	Vector Rogue Waves and Modulation Instability in the Defocusing Regime. , 2014, , .		0
45	Spatial Rogue Waves and Modulation Instability in Quadratic Media. , 2018, , .		0
46	Optical Peregrine Rogue Waves in Self-Induced Transparent Media. , 2018, , .		0
47	Optical Kerr spatiotemporal dark extreme waves. , 2018, , .		0