Fabio Baronio

List of Publications by Year
in descending order

47 papers	2,524 citations	257357 24 h-index	276775 41 g-index
47 all docs	47 docs citations	47 times ranked	841 citing authors

#	Article	IF	Citations
1	Photonic rogue waves in a strongly dispersive coupled-cavity array involving self-attractive Kerr nonlinearity. Physical Review A, 2022, 105, .	1.0	7
2	General rogue wave solutions under SU(2) transformation in the vector Chenâ€“Leeâ€“Liu nonlinear SchrÃ¶dinger equation. Physica D: Nonlinear Phenomena, 2022, 434, 133204.	1.3	8
3	Quadratic Peregrine solitons resonantly radiating without higher-order dispersion. Optics Letters, 2022, 47, 2370.	1.7	14
4	ECG waveform dataset for predicting defibrillation outcome in out-of-hospital cardiac arrested patients. Data in Brief, 2021, 34, 106635.	0.5	1
5	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
6	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
7	Predicting defibrillation success in out-of-hospital cardiac arrested patients: Moving beyond feature design. Artificial Intelligence in Medicine, 2020, 110, 101963.	3.8	11
8	Peregrine Solitons on a Periodic Background in the Vector Cubic-Quintic Nonlinear SchrÃ¶dinger Equation. Frontiers in Physics, 2020, 8, .	1.0	10
9	Fundamental Peregrine Solitons of Ultrastrong Amplitude Enhancement through Self-Steepening in Vector Nonlinear Systems. Physical Review Letters, 2020, 124, 113901.	2.9	34
10	Resonant radiation from Peregrine solitons. Optics Letters, 2020, 45, 427.	1.7	29
11	Observation of 2D Spatiotemporal Rogue Events in a Quadratic Nonlinear Medium. , 2020, , .		1
12	General rogue wave solutions of the coupled Fokasâ€“Lenells equations and non-recursive Darboux transformation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180806.	1.0	24
13	Spatial Akhmediev breathers and modulation instability growth-decay cycles in a quadratic optical medium. Physical Review Research, 2019, 1, .	1.3	14
14	Super chirped rogue waves in optical fibers. Optics Express, 2019, 27, 11370.	1.7	31
15	Peregrine Solitons Beyond the Threefold Limit and Their Two-Soliton Interactions. Physical Review Letters, 2018, 121, 104101.	2.9	55
16	Spatial Rogue Waves and Modulation Instability in Quadratic Media. , 2018, , .		0
17	Optical Peregrine Rogue Waves in Self-Induced Transparent Media. , 2018, , .		0
18	Optical Kerr spatiotemporal dark extreme waves. , 2018, , .		0

#	Article	IF	Citations
19	Versatile rogue waves in scalar, vector, and multidimensional nonlinear systems. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 463001.	0.7	170
20	Optical-fluid dark line and X solitary waves in Kerr media. Optical Data Processing and Storage, 2017, 3, 1-7.	3.3	8
21	Ventricular defibrillation: Classification with G.E.M. and a roadmap for future investigations. , 2017, , .		5
22	Optical Peregrine rogue waves of self-induced transparency in a resonant erbium-doped fiber. Optics Express, 2017, 25, 29687.	1.7	23
23	Two-color walking Peregrine solitary waves. Optics Letters, 2017, 42, 3514.	1.7	28
24	Akhmediev breathers and Peregrine solitary waves in a quadratic medium. Optics Letters, 2017, 42, 1756.	1.7	39
25	Optical Dark Rogue Wave. Scientific Reports, 2016, 6, 20785.	1.6	113
26	Roadmap on optical rogue waves and extreme events. Journal of Optics (United Kingdom), 2016, 18, 063001.	1.0	225
27	Hydrodynamic and Optical Waves: A Common Approach for Unidimensional Propagation. Lecture Notes in Physics, 2016, , 1-22.	0.3	4
28	Rogue-wave bullets in a composite (2+1)D nonlinear medium. Optics Express, 2016, 24, 15251.	1.7	40
29	Chirped Peregrine solitons in a class of cubic-quintic nonlinear SchrÃ¶dinger equations. Physical Review E, 2016, 93, 062202.	0.8	41
30	Optical Kerr Spatiotemporal Dark-Lump Dynamics of Hydrodynamic Origin. Physical Review Letters, 2016, 116, 173901.	2.9	78
31	Complementary optical rogue waves in parametric three-wave mixing. Optics Express, 2016, 24, 5886.	1.7	21
32	Spatiotemporal optical dark X solitary waves. Optics Letters, 2016, 41, 5571.	1.7	25
33	Optical rogue waves in parametric three-wave mixing and coherent stimulated scattering. Physical Review A, 2015, 92, .	1.0	36
34	Baseband modulation instability as the origin of rogue waves. Physical Review A, 2015, 91, .	1.0	150
35	Vector Rogue Waves and Modulation Instability in the Defocusing Regime. , 2014, , .		0
36	Resonant radiation shed by dispersive shock waves. Physical Review A, 2014, 89, .	1.0	67

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37	Vector Rogue Waves and Baseband Modulation Instability in the Defocusing Regime. Physical Review Letters, 2014, 113, 034101.	2.9	302
38	Rogue Waves Emerging from the Resonant Interaction of Three Waves. Physical Review Letters, 2013, 111, 114101.	2.9	189
39	Solutions of the Vector Nonlinear SchrÃ¶dinger Equations: Evidence for Deterministic Rogue Waves. Physical Review Letters, 2012, 109, 044102.	2.9	473
40	Modulational instability of dark solitons in three wave resonant interaction. Physica D: Nonlinear Phenomena, 2011, 240, 1362-1369.	1.3	12
41	Velocity-Locked Solitary Waves in Quadratic Media. Physical Review Letters, 2010, 104, 113902.	2.9	36
42	Three-Wave Trapponic Solitons for Tunable High-Repetition Rate Pulse Train Generation. IEEE Journal of Quantum Electronics, 2008, 44, 542-546.	1.0	19
43	Parametric frequency conversion of short optical pulses controlled by a CW background. Optics Express, 2007, 15, 12246.	1.7	23
44	Stable Control of Pulse Speed in Parametric Three-Wave Solitons. Physical Review Letters, 2006, 97, 093901.	2.9	51
45	Inelastic scattering and interactions of three-wave parametric solitons. Physical Review E, 2006, 74, 065602.	0.8	27
46	Reflection of quadratic solitons at the boundary of nonlinear media. Optics Letters, 2004, 29, 986.	1.7	31
47	Spatial trapping of short pulses in Ti-indiffused LiNbO_3 waveguides. Optics Letters, 2002, 27, 2182.	1.7	28