Andrea Armaroli

List of Publications by Year
in descending order

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48	526	623699	677123
papers	citations	14 h-index	22 g-index

48	48	48	474
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stochastic modulational instability in the nonlinear SchrÃ¶dinger equation with colored random dispersion. Physical Review A, 2022, 105, .	2.5	2
2	Stabilization of Unsteady Nonlinear Waves by Phase-Space Manipulation. Physical Review Letters, 2021, 126, 174501.	7.8	11
3	Modulational instability in optical fibers with randomly kicked normal dispersion. Physical Review A, 2021, 103, .	2.5	3
4	Stabilization of uni-directional water wave trains over an uneven bottom. Nonlinear Dynamics, 2020, 101, 1131-1145.	5.2	6
5	Separatrix crossing and symmetry breaking in NLSE-like systems due to forcing and damping. Nonlinear Dynamics, 2020, 102, 2385-2398.	5.2	6
6	Reconciling different formulations of viscous water waves and their mass conservation. Wave Motion, 2020, 97, 102610.	2.0	3
7	Combining FDTD and coupled-mode theory for self-pulsing modeling in coupled nonlinear microring resonators. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2557.	2.1	5
8	Single-spectrum prediction of kurtosis of water waves in a nonconservative model. Physical Review E, 2019, 100, 013102.	2.1	7
9	Nonlinear stage of Benjamin-Feir instability in forced/damped deep-water waves. Physics of Fluids, 2018, 30, .	4.0	16
10	Microwave generation on an optical carrier in microresonator chains. Physical Review A, 2018, 98, .	2.5	6
11	Viscous damping of gravity-capillary waves: Dispersion relations and nonlinear corrections. Physical Review Fluids, 2018, 3, .	2.5	6
12	Recurrence in the high-order nonlinear SchrÃ¶dinger equation: A low-dimensional analysis. Physical Review E, 2017, 96, 012222.	2.1	14
13	Heteroclinic Structure of Parametric Resonance in the Nonlinear SchrÃ¶dinger Equation. Physical Review Letters, 2016, 117, 013901.	7.8	25
14	Heteroclinic Structure of Parametric Resonance in Fibers with Periodic Dispersion. , 2016, , .		0
15	Nonlinear Stage of Modulation Instability in Dispersion Oscillating Fibers. , 2016, , .		0
16	Non-local soliton interactions in Raman-gas photonic crystal fibers. , 2015, , .		0
17	Stable integrated hyper-parametric oscillator based on coupled optical microcavities. Optics Letters, 2015, 40, 5622.	3.3	6
18	Contribution of third-harmonic and negative-frequency polarization fields to self-phase modulation in nonlinear media. Optics Letters, 2015, 40, 613.	3.3	7

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19	Rogue solitons in optical fibers: a dynamical process in a complex energy landscape?. Optica, 2015, 2, 497.	9.3	39
20	Raman-induced temporal condensed matter physics in gas-filled photonic crystal fibers. Optics Express, 2015, 23, 11879.	3.4	13
21	Strong Raman-induced noninstantaneous soliton interactions in gas-filled photonic crystal fibers. Optics Letters, 2015, 40, 4058.	3.3	12
22	Raman-induced soliton oscillations and tunneling in gas-filled photonic crystal fibers. , 2014, , .		0
23	Complex energy landscape dynamics at the origin of rogue wave soliton formation. , 2014, , .		0
24	Observation of Optical Undular Bores in Multiple Four-Wave Mixing. Physical Review X, 2014, 4, .	8.9	49
25	Modulational instability due to cross-phase modulation versus multiple four-wave mixing: the normal dispersion regime. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 551.	2.1	19
26	Suppression and splitting of modulational instability sidebands in periodically tapered optical fibers because of fourth-order dispersion. Optics Letters, 2014, 39, 4804.	3.3	19
27	Vector modulational instability induced by parametric resonance in periodically tapered highly birefringent optical fibers. Physical Review A, 2013, 87, .	2.5	12
28	Fourth-order dispersion mediated modulation instability in dispersion oscillating fibers. Optics Letters, 2013, 38, 3464.	3.3	30
29	Modulational instability phase-matched by higher-order dispersion terms in dispersion-oscillating optical fibers. , 2013, , .		0
30	Parametric resonance in periodically tapered optical fibres: Scalar and vectorial modulational instability bands. , 2013, , .		0
31	Observation of modulationally unstable multi-wave mixing. Optics Letters, 2013, 38, 181.	3.3	12
32	Scalar and vector modulational instability induced by parametric resonance in periodically tapered PCFs. , 2013, , .		0
33	Tunable modulational instability sidebands via parametric resonance in periodically tapered optical fibers. Optics Express, 2012, 20, 25096.	3.4	49
34	High-speed photodetectors in a photonic crystal platform. , 2012, , .		1
35	Four-wave mixing instabilities in telecom fibers. , 2012, , .		0
36	Numerical modeling in photonic crystals integrated technology: The COPERNICUS Project. , 2011, , .		0

#	Article	IF	Citations
37	Coupling between PhC membrane and lensed fiber: Simulations and measurements. , 2011, , .		0
38	Time-reversal focusing of an expanding soliton gas in disordered replicas. Physical Review A, 2011, 83, .	2.5	20
39	Collective modulation instability of multiple four-wave mixing. Optics Letters, 2011, 36, 1999.	3.3	14
40	Oscillatory dynamics in nanocavities with noninstantaneous Kerr response. Physical Review A, 2011, 84, .	2.5	31
41	Interplay of dispersion and resonance in photonic crystal three-port filters: a tight binding modeling. , 2010, , .		0
42	Control of dispersive shock dynamics developing from dark waveforms. , 2010, , .		0
43	Temporal dynamics of nonlinear switching in GaAs photonic-crystal-based devices. , 2010, , .		0
44	Comparative Analysis of a Planar Slotted Microdisk Resonator. Journal of Lightwave Technology, 2009, 27, 4009-4016.	4.6	7
45	Suppression of transverse instabilities of dark solitons and their dispersive shock waves. Physical Review A, 2009, 80, .	2.5	43
46	Three-dimensional analysis of cylindrical microresonators based on the aperiodic Fourier modal method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 667.	1.5	18
47	Modeling of spatial gap solitons in nonlinear waveguide arrays. Microwave and Optical Technology Letters, 2006, 48, 2591-2595.	1.4	1
48	Advancement optimization in multihop wireless networks. , 2003, , .		14