

Andrea Armaroli

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2285784/publications.pdf>

Version: 2024-02-01

48
papers

526
citations

706676

14
h-index

759306

22
g-index

48
all docs

48
docs citations

48
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic modulational instability in the nonlinear Schrödinger equation with colored random dispersion. <i>Physical Review A</i> , 2022, 105, .	1.0	2
2	Stabilization of Unsteady Nonlinear Waves by Phase-Space Manipulation. <i>Physical Review Letters</i> , 2021, 126, 174501.	2.9	11
3	Modulational instability in optical fibers with randomly kicked normal dispersion. <i>Physical Review A</i> , 2021, 103, .	1.0	3
4	Stabilization of uni-directional water wave trains over an uneven bottom. <i>Nonlinear Dynamics</i> , 2020, 101, 1131-1145.	2.7	6
5	Separatrix crossing and symmetry breaking in NLSE-like systems due to forcing and damping. <i>Nonlinear Dynamics</i> , 2020, 102, 2385-2398.	2.7	6
6	Reconciling different formulations of viscous water waves and their mass conservation. <i>Wave Motion</i> , 2020, 97, 102610.	1.0	3
7	Combining FDTD and coupled-mode theory for self-pulsing modeling in coupled nonlinear microring resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 2557.	0.9	5
8	Single-spectrum prediction of kurtosis of water waves in a nonconservative model. <i>Physical Review E</i> , 2019, 100, 013102.	0.8	7
9	Nonlinear stage of Benjamin-Feir instability in forced/damped deep-water waves. <i>Physics of Fluids</i> , 2018, 30, .	1.6	16
10	Microwave generation on an optical carrier in microresonator chains. <i>Physical Review A</i> , 2018, 98, .	1.0	6
11	Viscous damping of gravity-capillary waves: Dispersion relations and nonlinear corrections. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	6
12	Recurrence in the high-order nonlinear Schrödinger equation: A low-dimensional analysis. <i>Physical Review E</i> , 2017, 96, 012222.	0.8	14
13	Heteroclinic Structure of Parametric Resonance in the Nonlinear Schrödinger Equation. <i>Physical Review Letters</i> , 2016, 117, 013901.	2.9	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. <i>Optics Letters</i> , 2015, 40, 5622.	1.7	6
18	Contribution of third-harmonic and negative-frequency polarization fields to self-phase modulation in nonlinear media. <i>Optics Letters</i> , 2015, 40, 613.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Rogue solitons in optical fibers: a dynamical process in a complex energy landscape?. <i>Optica</i> , 2015, 2, 497.	4.8	39
20	Raman-induced temporal condensed matter physics in gas-filled photonic crystal fibers. <i>Optics Express</i> , 2015, 23, 11879.	1.7	13
21	Strong Raman-induced noninstantaneous soliton interactions in gas-filled photonic crystal fibers. <i>Optics Letters</i> , 2015, 40, 4058.	1.7	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. <i>Physical Review X</i> , 2014, 4, .	2.8	49
25	Modulational instability due to cross-phase modulation versus multiple four-wave mixing: the normal dispersion regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 551.	0.9	19
26	Suppression and splitting of modulational instability sidebands in periodically tapered optical fibers because of fourth-order dispersion. <i>Optics Letters</i> , 2014, 39, 4804.	1.7	19
27	Vector modulational instability induced by parametric resonance in periodically tapered highly birefringent optical fibers. <i>Physical Review A</i> , 2013, 87, .	1.0	12
28	Fourth-order dispersion mediated modulation instability in dispersion oscillating fibers. <i>Optics Letters</i> , 2013, 38, 3464.	1.7	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. <i>Optics Letters</i> , 2013, 38, 181.	1.7	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. <i>Optics Express</i> , 2012, 20, 25096.	1.7	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, .	1.0	20
39	Collective modulation instability of multiple four-wave mixing. Optics Letters, 2011, 36, 1999.	1.7	14
40	Oscillatory dynamics in nanocavities with noninstantaneous Kerr response. Physical Review A, 2011, 84, .	1.0	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.	2.7	7
45	Suppression of transverse instabilities of dark solitons and their dispersive shock waves. Physical Review A, 2009, 80, .	1.0	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.	0.8	18
47	Modeling of spatial gap solitons in nonlinear waveguide arrays. Microwave and Optical Technology Letters, 2006, 48, 2591-2595.	0.9	1
48	Advancement optimization in multihop wireless networks. , 2003, , .		14