

Gang Xu

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

476
citations

840585

11
h-index

677027

22
g-index

31
all docs

31
docs citations

31
times ranked

299
citing authors

#	ARTICLE	IF	CITATIONS
1	Breather Wave Molecules. <i>Physical Review Letters</i> , 2019, 122, 084101.	2.9	100
2	Dispersive Dam-Break Flow of a Photon Fluid. <i>Physical Review Letters</i> , 2017, 118, 254101.	2.9	60
3	Spontaneous symmetry breaking of dissipative optical solitons in a two-component Kerr resonator. <i>Nature Communications</i> , 2021, 12, 4023.	5.8	48
4	Incoherent Dispersive Shocks in the Spectral Evolution of Random Waves. <i>Physical Review Letters</i> , 2013, 111, 113902.	2.9	42
5	Phase evolution of Peregrine-like breathers in optics and hydrodynamics. <i>Physical Review E</i> , 2019, 99, 012207.	0.8	35
6	Observation of modulation instability and rogue breathers on stationary periodic waves. <i>Physical Review Research</i> , 2020, 2, .	1.3	34
7	Nonlinear-mode-coupling-induced soliton crystal dynamics in optical microresonators. <i>Physical Review A</i> , 2021, 103, .	1.0	16
8	Vectorial dispersive shock waves in optical fibers. <i>Communications Physics</i> , 2019, 2, .	2.0	15
9	Breathing dynamics of symmetry-broken temporal cavity solitons in Kerr ring resonators. <i>Optics Letters</i> , 2022, 47, 1486.	1.7	15
10	Truncated thermalization of incoherent optical waves through supercontinuum generation in photonic crystal fibers. <i>Physical Review A</i> , 2013, 87, .	1.0	14
11	Incoherent shock waves in long-range optical turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2016, 333, 310-322.	1.3	12
12	Generalized description of spectral incoherent solitons. <i>Optics Letters</i> , 2014, 39, 4192.	1.7	10
13	Spectral long-range interaction of temporal incoherent solitons. <i>Optics Letters</i> , 2014, 39, 590.	1.7	9
14	Spectral dynamics of incoherent waves with a noninstantaneous nonlinear response. <i>Optics Letters</i> , 2013, 38, 2972.	1.7	8
15	The piston Riemann problem in a photon superfluid. <i>Nature Communications</i> , 2022, 13, .	5.8	8
16	Space-time evolution of optical breathers and modulation instability patterns in metamaterial waveguides. <i>Wave Motion</i> , 2020, 93, 102448.	1.0	7
17	Observations of existence and instability dynamics of near-zero-dispersion temporal Kerr cavity solitons. <i>Physical Review Research</i> , 2021, 3, .	1.3	6
18	Origins of spectral broadening of incoherent waves: Catastrophic process of coherence degradation. <i>Physical Review A</i> , 2017, 96, .	1.0	5

#	ARTICLE	IF	CITATIONS
19	Emergence of long-range phase coherence in nonlocal fluids of light. <i>Physical Review A</i> , 2017, 95, .	1.0	5
20	Incoherent Shock and Collapse Singularities in Non-Instantaneous Nonlinear Media. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2559.	1.3	5
21	Ghost Interaction of Breathers. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	5
22	Impact of self-steepening on incoherent dispersive spectral shocks and collapse-like spectral singularities. <i>Physical Review A</i> , 2014, 90, .	1.0	4
23	Performances of the Alpha-X RF gun on the PHIL accelerator at LAL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 797, 222-229.	0.7	4
24	Weak Langmuir optical turbulence in a fiber cavity. <i>Physical Review A</i> , 2016, 94, .	1.0	3
25	Decoupled polarization dynamics of incoherent waves and bimodal spectral incoherent solitons. <i>Optics Letters</i> , 2016, 41, 3992.	1.7	2
26	Background-enhanced collapse instability of optical speckle beams in nonlocal nonlinear media. <i>Physica D: Nonlinear Phenomena</i> , 2022, 434, 133230.	1.3	2
27	Polarization-decoupled cavity solitons generation in Kerr resonators with flattened near-zero dispersion. <i>Optics Express</i> , 2022, 30, 20767.	1.7	2
28	Incoherent Dispersive Shocks and Spectral Collapse. , 2014, , .		0
29	Introduction to Wave Turbulence Formalisms for Incoherent Optical Waves. <i>Lecture Notes in Physics</i> , 2016, , 205-276.	0.3	0
30	Optical Wave Turbulence in Fibers. , 2017, , 351-394.		0
31	Dynamics of photon fluid flows driven by optical pistons. , 2019, , .		0