Jianhua Zeng

List of Publications by Year
in descending order

43 papers	840 citations	430874 18 h-index	501196 28 g-index
44 all docs	44 docs citations	44 times ranked	218 citing authors

#	Article	IF	Citations
1	One-dimensional solitons in fractional Schrödinger equation with a spatially periodical modulated nonlinearity: nonlinear lattice. Optics Letters, 2019, 44, 2661.	3.3	66
2	Preventing critical collapse of higher-order solitons by tailoring unconventional optical diffraction and nonlinearities. Communications Physics, 2020, 3, .	5.3	64
3	One-dimensional gap solitons in quintic and cubic–quintic fractional nonlinear Schrödinger equations with a periodically modulated linear potential. Nonlinear Dynamics, 2019, 98, 985-995.	5.2	60
4	Gap-type dark localized modes in a Bose–Einstein condensate with optical lattices. Advanced Photonics, 2019, 1, 1.	11.8	54
5	Two-dimensional solitons in PT linear lattice potentials. Physical Review E, 2012, 85, 047601.	2.1	47
6	Domain walls and vortices in linearly coupled systems. Physical Review E, 2011, 84, 046602.	2.1	43
7	Bright solitons in defocusing media with spatial modulation of the quintic nonlinearity. Physical Review E, 2012, 86, 036607.	2.1	40
8	Stabilization of one-dimensional solitons against the critical collapse by quintic nonlinear lattices. Physical Review A, 2012, 85, .	2.5	36
9	Purely Kerr nonlinear model admitting flat-top solitons. Optics Letters, 2019, 44, 1206.	3.3	29
10	Localized dark solitons and vortices in defocusing media with spatially inhomogeneous nonlinearity. Physical Review E, 2017, 95, 052214.	2.1	28
11	Bright solitons from the nonpolynomial Schrödinger equation with inhomogeneous defocusing nonlinearities. Physical Review E, 2013, 88, 025201.	2.1	27
12	Two-dimensional matter-wave solitons and vortices in competing cubic-quintic nonlinear lattices. Frontiers of Physics, 2018, 13, 1.	5.0	25
13	Two-dimensional solitons and vortices in media with incommensurate linear and nonlinear lattice potentials. Physica Scripta, 2012, T149, 014035.	2.5	22
14	1D Solitons in Saturable Nonlinear Media with Space Fractional Derivatives. Annalen Der Physik, 2020, 532, 1900385.	2.4	21
15	Fractional quantum couplers. Chaos, Solitons and Fractals, 2020, 140, 110271.	5.1	21
16	Suppression of the critical collapse for one-dimensional solitons by saturable quintic nonlinear lattices. Chaos, 2018, 28, 075501.	2.5	20
17	Self-trapped spatially localized states in combined linear-nonlinear periodic potentials. Frontiers of Physics, 2020, 15, 1.	5.0	20
18	Modulated solitons, soliton and vortex clusters in purely nonlinear defocusing media. Annals of Physics, 2020, 421, 168284.	2.8	19

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19	Gaussian-like and flat-top solitons of atoms with spatially modulated repulsive interactions. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2278.	2.1	19
20	Localized gap modes of coherently trapped atoms in an optical lattice. Optics Express, 2021, 29, 3011.	3.4	18
21	Dark matter-wave gap solitons in dense ultracold atoms trapped by a one-dimensional optical lattice. Physical Review A, 2021, 103, .	2.5	17
22	Electromagnetically induced moiré optical lattices in a coherent atomic gas. Frontiers of Physics, 2022, 17, .	5.0	17
23	Two-dimensional optical gap solitons and vortices in a coherent atomic ensemble loaded on optical lattices. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105911.	3.3	16
24	Spontaneous symmetry breaking in purely nonlinear fractional systems. Chaos, 2020, 30, 063131.	2.5	13
25	Dark matter-wave gap solitons of Bose-Einstein condensates trapped in optical lattices with competing cubic-quintic nonlinearities. Chaos, Solitons and Fractals, 2021, 150, 111149.	5.1	13
26	Two-dimensional intraband solitons in lattice potentials with local defects and self-focusing nonlinearity. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1786.	2.1	9
27	One-dimensional localized modes of spin-orbit-coupled Bose-Einstein condensates with spatially periodic modulated atom-atom interactions: Nonlinear lattices. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105217.	3.3	9
28	Localized Modes in Nonlinear Fractional Systems with Deep Lattices. Advanced Theory and Simulations, 2022, 5, .	2.8	9
29	One-dimensional quantum droplets under space-periodic nonlinear management. Results in Physics, 2021, 21, 103781.	4.1	8
30	Asymmetric localized states in periodic potentials with a domain-wall-like Kerr nonlinearity. Journal of Physics Communications, 2019, 3, 035003.	1.2	7
31	Matter-wave gap solitons and vortices in three-dimensional parity-time-symmetric optical lattices. IScience, 2022, 25, 104026.	4.1	7
32	Backward self-induced transparency in metamaterials. Physical Review A, 2009, 80, .	2.5	6
33	Dark gap solitons in one-dimensional nonlinear periodic media with fourth-order dispersion. Chaos, Solitons and Fractals, 2022, 157, 111950.	5.1	6
34	3D Nonlinear Localized Gap Modes in Bose–Einstein Condensates Trapped by Optical Lattices and Space–Periodic Nonlinear Potentials. Advanced Photonics Research, 2022, 3, .	3.6	4
35	One-dimensional purely Lee-Huang-Yang fluids dominated by quantum fluctuations in two-component Bose-Einstein condensates. Chaos, Solitons and Fractals, 2022, 160, 112240.	5.1	4
36	Nonlinear localized modes in one-dimensional nanoscale dark-state optical lattices. Nanophotonics, 2022, 11, 3465-3474.	6.0	4

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37	Nonlinear dynamics of negatively refracted light in a resonantly absorbing Bragg reflector. Optics Letters, 2007, 32, 1117.	3.3	3
38	Generation of a self-pulsed picosecond solitary wave train from a periodically amplifying Bragg structure. Physical Review A, 2008, 78, .	2.5	3
39	Two-Dimensional Solitons and Vortices in Linear and Nonlinear Lattice Potentials. , 0, , .		3
40	Quantum coherent control of ultrashort laser pulses. Science Bulletin, 2008, 53, 652-658.	1.7	2
41	Suppressing the critical collapse of solitons by one-dimensional quintic nonlinear lattices. Mathematics and Computers in Simulation, 2016, 127, 287-296.	4.4	1
42	Domain walls and vortices in two-mode photonic systems. , 2011, , .		0
43	Overcoming the snaking instability and nucleation of dark solitons in nonlinear Kerr media by spatially inhomogeneous defocusing nonlinearity. Chaos, Solitons and Fractals, 2022, 156, 111803.	5.1	0