Ziad Musslimani

List of Publications by Year
in descending order

53 papers	6,709 citations	186265 28 h-index	175258 52 g-index
55 all docs	55 docs citations	55 times ranked	2910 citing authors

#	Article	IF	Citations
1	Time-dependent Duhamel renormalization method with multiple conservation and dissipation laws. Nonlinearity, 2022, 35, 1286-1310.	1.4	3
2	Integrable nonlocal derivative nonlinear Schrödinger equations. Inverse Problems, 2022, 38, 065003.	2.0	11
3	Integrable space-time shifted nonlocal nonlinear equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 409, 127516.	2.1	45
4	Discrete nonlocal nonlinear Schrödinger systems: Integrability, inverse scattering and solitons. Nonlinearity, 2020, 33, 3653-3707.	1.4	28
5	Large coupling-strength expansion of the Møller–Plesset adiabatic connection: From paradigmatic cases to variational expressions for the leading terms. Journal of Chemical Physics, 2020, 153, 214112.	3.0	16
6	Kohn–Sham equations with functionals from the strictly-correlated regime: investigation with a spectral renormalization method. Journal of Physics Condensed Matter, 2020, 32, 475602.	1.8	6
7	Integrable nonlocal asymptotic reductions of physically significant nonlinear equations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 15LT02.	2.1	38
8	Inverse scattering transform for the nonlocal nonlinear Schrödinger equation with nonzero boundary conditions. Journal of Mathematical Physics, 2018, 59, .	1.1	125
9	Non-Hermitian physics and PT symmetry. Nature Physics, 2018, 14, 11-19.	16.7	1,620
10	Computing eigenfunctions and eigenvalues of boundary-value problems with the orthogonal spectral renormalization method. Physical Review A, 2018, 97, .	2.5	0
11	Integrable Nonlocal PT Symmetric and Reverse Space-Time Nonlinear Schrödinger Equations. Springer Tracts in Modern Physics, 2018, , 493-512.	0.1	0
12	General soliton solution to a nonlocal nonlinear Schrödinger equation with zero and nonzero boundary conditions. Nonlinearity, 2018, 31, 5385-5409.	1.4	126
13	Reverse Space–Time Nonlocal Sine–Gordon/Sinh–Gordon Equations with Nonzero Boundary Conditions. Studies in Applied Mathematics, 2018, 141, 267-307.	2.4	68
14	Wave propagation through disordered media without backscattering and intensity variations. Light: Science and Applications, 2017, 6, e17035-e17035.	16.6	60
15	Time-dependent spectral renormalization method. Physica D: Nonlinear Phenomena, 2017, 358, 15-24.	2.8	3
16	Vortices in Bose-Einstein condensates with $\mathscr{PT}$ -symmetric gain and loss. Physical Review A, 2017, 95, .	2.5	20
17	Integrable Nonlocal Nonlinear Equations. Studies in Applied Mathematics, 2017, 139, 7-59.	2.4	361
18	Generalized uncertainty principle and analogue of quantum gravity in optics. Physica D: Nonlinear Phenomena, 2017, 338, 34-41.	2.8	19

#	Article	IF	Citations
19	Constant Intensity Supermodes in Non-Hermitian Lattices. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 42-47.	2.9	13
20	Inverse scattering transform for the integrable nonlocal nonlinear Schrödinger equation. Nonlinearity, 2016, 29, 915-946.	1.4	416
21	Spectral transverse instabilities and soliton dynamics in the higher-order multidimensional nonlinear Schrödinger equation. Physica D: Nonlinear Phenomena, 2015, 313, 26-36.	2.8	16
22	Continuous and discrete Schrödinger systems with parity-time-symmetric nonlinearities. Physical Review E, 2014, 89, 052918.	2.1	117
23	Integrable discrete<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>P</mml:mi><mml:mi>T</mml:mi></mml:mrow></mml: model. Physical Review E, 2014, 90, 032912.	2.1	172
24	Integrable Nonlocal Nonlinear Schrödinger Equation. Physical Review Letters, 2013, 110, 064105.	7.8	633
25	Modulation Theory for Self-Focusing in the Nonlinear Schrödinger–Helmholtz Equation. Numerical Functional Analysis and Optimization, 2009, 30, 46-69.	1.4	4
26	Analytical solutions to a class of nonlinear Schrödinger equations with {cal PT} -like potentials. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 244019.	2.1	130
27	Nonlinear Schrödinger–Helmholtz equation as numerical regularization of the nonlinear Schrödinger equation. Nonlinearity, 2008, 21, 879-898.	1.4	13
28	Numerical study of one-dimensional and interacting Bose–Einstein condensates in a random potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 045302.	1.5	31
29	Theory of coupled optical PT-symmetric structures. Optics Letters, 2007, 32, 2632.	3.3	1,104
30	Optical beam instabilities in nonlinear nanosuspensions. Optics Letters, 2007, 32, 3185.	3.3	28
31	Spectral renormalization method for computing self-localized solutions to nonlinear systems. Optics Letters, 2005, 30, 2140.	3.3	176
32	Self-trapping of light in a two-dimensional photonic lattice. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 973.	2.1	97
33	Discrete spatial solitons in a diffraction-managed nonlinear waveguide array: a unified approach. Physica D: Nonlinear Phenomena, 2003, 184, 276-303.	2.8	66
34	Fundamental and vortex solitons in a two-dimensional optical lattice. Optics Letters, 2003, 28, 2094.	3.3	314
35	Discrete vector spatial solitons in a nonlinear waveguide array. Physical Review E, 2002, 65, 056618.	2.1	44
36	Methods for discrete solitons in nonlinear lattices. Physical Review E, 2002, 65, 026602.	2.1	59

#	Article	IF	Citations
37	Collisions between (2+1)D rotating propeller solitons. Optics Letters, 2001, 26, 1577.	3.3	16
38	Transverse instability of strongly coupled darkâ€"bright Manakov vector solitons. Optics Letters, 2001, 26, 1981.	3.3	37
39	Discrete Diffraction Managed Spatial Solitons. Physical Review Letters, 2001, 87, 254102.	7.8	172
40	Rotating Propeller Solitons. Physical Review Letters, 2001, 87, 143901.	7.8	65
41	Delayed-Action Interaction and Spin-Orbit Coupling between Solitons. Physical Review Letters, 2001, 86, 799-802.	7.8	21
42	Eliminating the Transverse Instabilities of Kerr Solitons. Physical Review Letters, 2000, 85, 4888-4891.	7.8	76
43	Dynamic quasicrystalline patterns: Wave-modeâ€"Turing-mode resonance with Turing-mode self-interaction. Physical Review E, 2000, 62, 389-396.	2.1	7
44	Composite Multihump Vector Solitons Carrying Topological Charge. Physical Review Letters, 2000, 84, 1164-1167.	7.8	133
45	Multicomponent two-dimensional solitons carrying topological charges. Optics Letters, 2000, 25, 61.	3.3	31
46	Observation of two-dimensional multimode solitons. Optics Letters, 2000, 25, 1113.	3.3	79
47	Suppression of transverse instabilities for vector solitons. Physical Review E, 1999, 60, R1170-R1173.	2.1	23
48	Resonant optical patterns in sodium vapor in a magnetic field. Physical Review A, 1999, 59, 1571-1576.	2.5	4
49	Long-wave instability in optical parametric oscillators. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 141-145.	2.6	14
50	Modulational instability in bulk dispersive quadratically nonlinear media. Physica D: Nonlinear Phenomena, 1998, 123, 235-243.	2.8	9
51	Quantum phase distribution of thermal phase-squeezed states. Physical Review A, 1998, 57, 1451-1453.	2.5	7
52	Destruction of photocount oscillations by thermal noise. Physical Review A, 1995, 51, 4967-4973.	2.5	22
53	Enhancement of Persistent Currents by Hubbard Interactions in Disordered 1D Rings: Avoided Level Crossings Interpretation. Journal De Physique, I, 1995, 5, 1487-1499.	1.2	10