

Ziad Musslimani

List of Publications by Year in descending order

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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	Non-Hermitian physics and PT symmetry. <i>Nature Physics</i> , 2018, 14, 11-19.	16.7	1,620
2	Theory of coupled optical PT-symmetric structures. <i>Optics Letters</i> , 2007, 32, 2632.	3.3	1,104
3	Integrable Nonlocal Nonlinear Schrödinger Equation. <i>Physical Review Letters</i> , 2013, 110, 064105.	7.8	633
4	Inverse scattering transform for the integrable nonlocal nonlinear Schrödinger equation. <i>Nonlinearity</i> , 2016, 29, 915-946.	1.4	416
5	Integrable Nonlocal Nonlinear Equations. <i>Studies in Applied Mathematics</i> , 2017, 139, 7-59.	2.4	361
6	Fundamental and vortex solitons in a two-dimensional optical lattice. <i>Optics Letters</i> , 2003, 28, 2094.	3.3	314
7	Spectral renormalization method for computing self-localized solutions to nonlinear systems. <i>Optics Letters</i> , 2005, 30, 2140.	3.3	176
8	Discrete Diffraction Managed Spatial Solitons. <i>Physical Review Letters</i> , 2001, 87, 254102.	7.8	172
9	Integrable discrete $\langle \text{mml:math} \rangle$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mrow} \rangle$ $\langle \text{mml:mi} \rangle P \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle T \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle$ $\langle \text{mml:math} \rangle$ model. <i>Physical Review E</i> , 2014, 90, 032912.	1.72	172
10	Composite Multihump Vector Solitons Carrying Topological Charge. <i>Physical Review Letters</i> , 2000, 84, 1164-1167.	7.8	133
11	Analytical solutions to a class of nonlinear Schrödinger equations with {cal PT}-like potentials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 244019.	2.1	130
12	General soliton solution to a nonlocal nonlinear Schrödinger equation with zero and nonzero boundary conditions. <i>Nonlinearity</i> , 2018, 31, 5385-5409.	1.4	126
13	Inverse scattering transform for the nonlocal nonlinear Schrödinger equation with nonzero boundary conditions. <i>Journal of Mathematical Physics</i> , 2018, 59, .	1.1	125
14	Continuous and discrete Schrödinger systems with parity-time-symmetric nonlinearities. <i>Physical Review E</i> , 2014, 89, 052918.	2.1	117
15	Self-trapping of light in a two-dimensional photonic lattice. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 973.	2.1	97
16	Observation of two-dimensional multimode solitons. <i>Optics Letters</i> , 2000, 25, 1113.	3.3	79
17	Eliminating the Transverse Instabilities of Kerr Solitons. <i>Physical Review Letters</i> , 2000, 85, 4888-4891.	7.8	76
18	Reverse Space-Time Nonlocal Sine-Gordon/Sinh-Gordon Equations with Nonzero Boundary Conditions. <i>Studies in Applied Mathematics</i> , 2018, 141, 267-307.	2.4	68

#	ARTICLE	IF	CITATIONS
19	Discrete spatial solitons in a diffraction-managed nonlinear waveguide array: a unified approach. <i>Physica D: Nonlinear Phenomena</i> , 2003, 184, 276-303.	2.8	66
20	Rotating Propeller Solitons. <i>Physical Review Letters</i> , 2001, 87, 143901.	7.8	65
21	Wave propagation through disordered media without backscattering and intensity variations. <i>Light: Science and Applications</i> , 2017, 6, e17035-e17035.	16.6	60
22	Methods for discrete solitons in nonlinear lattices. <i>Physical Review E</i> , 2002, 65, 026602.	2.1	59
23	Integrable space-time shifted nonlocal nonlinear equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 409, 127516.	2.1	45
24	Discrete vector spatial solitons in a nonlinear waveguide array. <i>Physical Review E</i> , 2002, 65, 056618.	2.1	44
25	Integrable nonlocal asymptotic reductions of physically significant nonlinear equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 15LT02.	2.1	38
26	Transverse instability of strongly coupled darkâ€“bright Manakov vector solitons. <i>Optics Letters</i> , 2001, 26, 1981.	3.3	37
27	Multicomponent two-dimensional solitons carrying topological charges. <i>Optics Letters</i> , 2000, 25, 61.	3.3	31
28	Numerical study of one-dimensional and interacting Boseâ€“Einstein condensates in a random potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 045302.	1.5	31
29	Optical beam instabilities in nonlinear nanosuspensions. <i>Optics Letters</i> , 2007, 32, 3185.	3.3	28
30	Discrete nonlocal nonlinear SchrÃ¶dinger systems: Integrability, inverse scattering and solitons. <i>Nonlinearity</i> , 2020, 33, 3653-3707.	1.4	28
31	Suppression of transverse instabilities for vector solitons. <i>Physical Review E</i> , 1999, 60, R1170-R1173.	2.1	23
32	Destruction of photocount oscillations by thermal noise. <i>Physical Review A</i> , 1995, 51, 4967-4973.	2.5	22
33	Delayed-Action Interaction and Spin-Orbit Coupling between Solitons. <i>Physical Review Letters</i> , 2001, 86, 799-802.	7.8	21
34	Vortices in Bose-Einstein condensates with $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ mml:mi $\text{mathvariant="script"}$ PT mml:mi mml:math -symmetric gain and loss. <i>Physical Review A</i> , 2017, 95, .	2.5	20
35	Generalized uncertainty principle and analogue of quantum gravity in optics. <i>Physica D: Nonlinear Phenomena</i> , 2017, 338, 34-41.	2.8	19
36	Collisions between (2+1)D rotating propeller solitons. <i>Optics Letters</i> , 2001, 26, 1577.	3.3	16

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37	Spectral transverse instabilities and soliton dynamics in the higher-order multidimensional nonlinear Schrödinger equation. <i>Physica D: Nonlinear Phenomena</i> , 2015, 313, 26-36.	2.8	16
38	Large coupling-strength expansion of the Moller-Plesset adiabatic connection: From paradigmatic cases to variational expressions for the leading terms. <i>Journal of Chemical Physics</i> , 2020, 153, 214112.	3.0	16
39	Long-wave instability in optical parametric oscillators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 249, 141-145.	2.6	14
40	Nonlinear Schrödinger-Helmholtz equation as numerical regularization of the nonlinear Schrödinger equation. <i>Nonlinearity</i> , 2008, 21, 879-898.	1.4	13
41	Constant Intensity Supermodes in Non-Hermitian Lattices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 42-47.	2.9	13
42	Integrable nonlocal derivative nonlinear Schrödinger equations. <i>Inverse Problems</i> , 2022, 38, 065003.	2.0	11
43	Enhancement of Persistent Currents by Hubbard Interactions in Disordered 1D Rings: Avoided Level Crossings Interpretation. <i>Journal De Physique</i> , I, 1995, 5, 1487-1499.	1.2	10
44	Modulational instability in bulk dispersive quadratically nonlinear media. <i>Physica D: Nonlinear Phenomena</i> , 1998, 123, 235-243.	2.8	9
45	Quantum phase distribution of thermal phase-squeezed states. <i>Physical Review A</i> , 1998, 57, 1451-1453.	2.5	7
46	Dynamic quasicrystalline patterns: Wave-mode-Turing-mode resonance with Turing-mode self-interaction. <i>Physical Review E</i> , 2000, 62, 389-396.	2.1	7
47	Kohn-Sham equations with functionals from the strictly-correlated regime: investigation with a spectral renormalization method. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 475602.	1.8	6
48	Resonant optical patterns in sodium vapor in a magnetic field. <i>Physical Review A</i> , 1999, 59, 1571-1576.	2.5	4
49	Modulation Theory for Self-Focusing in the Nonlinear Schrödinger-Helmholtz Equation. <i>Numerical Functional Analysis and Optimization</i> , 2009, 30, 46-69.	1.4	4
50	Time-dependent spectral renormalization method. <i>Physica D: Nonlinear Phenomena</i> , 2017, 358, 15-24.	2.8	3
51	Time-dependent Duhamel renormalization method with multiple conservation and dissipation laws. <i>Nonlinearity</i> , 2022, 35, 1286-1310.	1.4	3
52	Computing eigenfunctions and eigenvalues of boundary-value problems with the orthogonal spectral renormalization method. <i>Physical Review A</i> , 2018, 97, .	2.5	0
53	Integrable Nonlocal PT Symmetric and Reverse Space-Time Nonlinear Schrödinger Equations. <i>Springer Tracts in Modern Physics</i> , 2018, , 493-512.	0.1	0