

Giulia Marcucci

List of Publications by Year in descending order

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29
papers

706
citations

687363

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all docs

29
docs citations

29
times ranked

633
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Scale Photonic Ising Machine by Spatial Light Modulation. <i>Physical Review Letters</i> , 2019, 122, 213902.	7.8	186
2	Machine learning inverse problem for topological photonics. <i>Communications Physics</i> , 2018, 1, .	5.3	110
3	Theory of Neuromorphic Computing by Waves: Machine Learning by Rogue Waves, Dispersive Shocks, and Solitons. <i>Physical Review Letters</i> , 2020, 125, 093901.	7.8	100
4	Photonic extreme learning machine by free-space optical propagation. <i>Photonics Research</i> , 2021, 9, 1446.	7.0	43
5	Adiabatic evolution on a spatial-photonic Ising machine. <i>Optica</i> , 2020, 7, 1535.	9.3	43
6	Noise-enhanced spatial-photonic Ising machine. <i>Nanophotonics</i> , 2020, 9, 4109-4116.	6.0	41
7	Topological control of extreme waves. <i>Nature Communications</i> , 2019, 10, 5090.	12.8	35
8	Physical realization of the Glauber quantum oscillator. <i>Scientific Reports</i> , 2015, 5, 15816.	3.3	23
9	Nonlinear Gamow vectors, shock waves, and irreversibility in optically nonlocal media. <i>Physical Review A</i> , 2015, 92, .	2.5	19
10	Topological nanophotonics and artificial neural networks. <i>Nanotechnology</i> , 2021, 32, 142001.	2.6	19
11	Programming multi-level quantum gates in disordered computing reservoirs via machine learning. <i>Optics Express</i> , 2020, 28, 14018.	3.4	17
12	Irreversible evolution of a wave packet in the rigged-Hilbert-space quantum mechanics. <i>Physical Review A</i> , 2016, 94, .	2.5	15
13	Optical spatial shock waves in nonlocal nonlinear media. <i>Advances in Physics: X</i> , 2019, 4, 1662733.	4.1	15
14	Living optical random neural network with three dimensional tumor spheroids for cancer morphodynamics. <i>Communications Physics</i> , 2020, 3, .	5.3	14
15	Sine-Gordon soliton as a model for Hawking radiation of moving black holes and quantum soliton evaporation. <i>Journal of Physics Communications</i> , 2018, 2, 055016.	1.2	9
16	Time Asymmetric Quantum Mechanics and Shock Waves: Exploring the Irreversibility in Nonlinear Optics. <i>Annalen Der Physik</i> , 2017, 529, 1600349.	2.4	8
17	Anisotropic Optical Shock Waves in Isotropic Media with Giant Nonlocal Nonlinearity. <i>Physical Review Letters</i> , 2020, 125, 243902.	7.8	8
18	Simulating general relativity and non-commutative geometry by non-paraxial quantum fluids. <i>New Journal of Physics</i> , 2019, 21, 123038.	2.9	1

#	ARTICLE	IF	CITATIONS
19	Topological Control of Optical Nonlinear Waves. , 2019, , .		0
20	Anisotropic Dispersive Shock Waves in Highly Nonlinear M-Cresol/Nylon. , 2019, , .		0
21	Multidimensional topological strings by curved potentials: Simultaneous realization of a mobility edge and topological protection. OSA Continuum, 2021, 4, 315.	1.8	0
22	Simulations of Time Asymmetric Quantum Mechanics by Nonlocal Nonlinear Optics. , 2017, , .		0
23	Replica Symmetry Breaking in Nonlinear Wave Propagation. , 2018, , .		0
24	Quantum Control of Quantum Solitons. , 2018, , .		0
25	Anisotropic Optical Shock Waves in M-Cresol/Nylon Highly Nonlocal Nonlinearity. , 2019, , .		0
26	Quantum Peregrine Soliton Generation. , 2020, , .		0
27	Theory of neuromorphic computing by waves. , 2021, , .		0
28	Neuromorphic computing device using optical shock waves. , 2021, , .		0
29	Metriplectic Structure of a Radiation-Matter-Interaction Toy Model. Entropy, 2022, 24, 506.	2.2	0