

# Giulia Marcucci

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

706  
citations

687363

13  
h-index

839539

18  
g-index

29  
all docs

29  
docs citations

29  
times ranked

633  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metriplectic Structure of a Radiation-Matter-Interaction Toy Model. <i>Entropy</i> , 2022, 24, 506.	2.2	0
2	Multidimensional topological strings by curved potentials: Simultaneous realization of a mobility edge and topological protection. <i>OSA Continuum</i> , 2021, 4, 315.	1.8	0
3	Topological nanophotonics and artificial neural networks. <i>Nanotechnology</i> , 2021, 32, 142001.	2.6	19
4	Photonic extreme learning machine by free-space optical propagation. <i>Photonics Research</i> , 2021, 9, 1446.	7.0	43
5	Theory of neuromorphic computing by waves. , 2021, , .		0
6	Neuromorphic computing device using optical shock waves. , 2021, , .		0
7	Living optical random neural network with three dimensional tumor spheroids for cancer morphodynamics. <i>Communications Physics</i> , 2020, 3, .	5.3	14
8	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
9	Anisotropic Optical Shock Waves in Isotropic Media with Giant Nonlocal Nonlinearity. <i>Physical Review Letters</i> , 2020, 125, 243902.	7.8	8
10	Programming multi-level quantum gates in disordered computing reservoirs via machine learning. <i>Optics Express</i> , 2020, 28, 14018.	3.4	17
11	Adiabatic evolution on a spatial-photonic Ising machine. <i>Optica</i> , 2020, 7, 1535.	9.3	43
12	Noise-enhanced spatial-photonic Ising machine. <i>Nanophotonics</i> , 2020, 9, 4109-4116.	6.0	41
13	Quantum Peregrine Soliton Generation. , 2020, , .		0
14	Optical spatial shock waves in nonlocal nonlinear media. <i>Advances in Physics: X</i> , 2019, 4, 1662733.	4.1	15
15	Topological control of extreme waves. <i>Nature Communications</i> , 2019, 10, 5090.	12.8	35
16	Topological Control of Optical Nonlinear Waves. , 2019, , .		0
17	Large-Scale Photonic Ising Machine by Spatial Light Modulation. <i>Physical Review Letters</i> , 2019, 122, 213902.	7.8	186
18	Anisotropic Dispersive Shock Waves in Highly Nonlinear M-Cresol/Nylon. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Simulating general relativity and non-commutative geometry by non-paraxial quantum fluids. New Journal of Physics, 2019, 21, 123038.	2.9	1
20	Anisotropic Optical Shock Waves in M-Cresol/Nylon Highly Nonlocal Nonlinearity. , 2019, , .		0
21	Machine learning inverse problem for topological photonics. Communications Physics, 2018, 1, .	5.3	110
22	Sine-Gordon soliton as a model for Hawking radiation of moving black holes and quantum soliton evaporation. Journal of Physics Communications, 2018, 2, 055016.	1.2	9
23	Replica Symmetry Breaking in Nonlinear Wave Propagation. , 2018, , .		0
24	Quantum Control of Quantum Solitons. , 2018, , .		0
25	Time Asymmetric Quantum Mechanics and Shock Waves: Exploring the Irreversibility in Nonlinear Optics. Annalen Der Physik, 2017, 529, 1600349.	2.4	8
26	Simulations of Time Asymmetric Quantum Mechanics by Nonlocal Nonlinear Optics. , 2017, , .		0
27	Irreversible evolution of a wave packet in the rigged-Hilbert-space quantum mechanics. Physical Review A, 2016, 94, .	2.5	15
28	Physical realization of the Glauber quantum oscillator. Scientific Reports, 2015, 5, 15816.	3.3	23
29	Nonlinear Gamow vectors, shock waves, and irreversibility in optically nonlocal media. Physical Review A, 2015, 92, .	2.5	19