

Marian Florescu

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,793
citations

361296

20
h-index

289141

40
g-index

64
all docs

64
docs citations

64
times ranked

1372
citing authors

#	ARTICLE	IF	CITATIONS
1	Designer disordered materials with large, complete photonic band gaps. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20658-20663.	3.3	363
2	Isotropic band gaps and freeform waveguides observed in hyperuniform disordered photonic solids. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15886-15891.	3.3	174
3	Photonic bandgap materials: towards an all-optical micro-transistor. Journal of Optics, 2001, 3, S103-S120.	1.5	110
4	Photonic band gap in isotropic hyperuniform disordered solids with low dielectric contrast. Optics Express, 2013, 21, 19972.	1.7	110
5	Complete band gaps in two-dimensional photonic quasicrystals. Physical Review B, 2009, 80, .	1.1	109
6	Single-atom switching in photonic crystals. Physical Review A, 2001, 64, .	1.0	101
7	Improving solar cell efficiency using photonic band-gap materials. Solar Energy Materials and Solar Cells, 2007, 91, 1599-1610.	3.0	92
8	Resonance fluorescence in photonic band gap waveguide architectures: Engineering the vacuum for all-optical switching. Physical Review A, 2004, 69, .	1.0	67
9	Optical cavities and waveguides in hyperuniform disordered photonic solids. Physical Review B, 2013, 87, .	1.1	66
10	Spin relaxation in lateral quantum dots: Effects of spin-orbit interaction. Physical Review B, 2006, 73, .	1.1	58
11	Local self-uniformity in photonic networks. Nature Communications, 2017, 8, 14439.	5.8	53
12	Hyperuniform disordered phononic structures. Physical Review B, 2017, 95, .	1.1	48
13	Mechanochromic and Thermochromic Sensors Based on Graphene Infused Polymer Opals. Advanced Functional Materials, 2020, 30, 2002473.	7.8	48
14	Thermal radiation in photonic crystals. Physical Review B, 2007, 75, .	1.1	46
15	Fast Assembly of Gold Nanoparticles in Large-Area 2D Nanogrids Using a One-Step, Near-Infrared Radiation-Assisted Evaporation Process. ACS Nano, 2016, 10, 2232-2242.	7.3	41
16	Thermal emission and absorption of radiation in finite inverted-opal photonic crystals. Physical Review A, 2005, 72, .	1.0	30
17	High- Q optical cavities in hyperuniform disordered materials. Physical Review B, 2015, 91, .	1.1	29
18	Reciprocal space engineering with hyperuniform gold disordered surfaces. APL Photonics, 2017, 2, .	3.0	28

#	ARTICLE	IF	CITATIONS
19	Effects of random link removal on the photonic band gaps of honeycomb networks. Applied Physics Letters, 2010, 97, .	1.5	23
20	Hyperuniform disordered waveguides and devices for near infrared silicon photonics. Scientific Reports, 2019, 9, 20338.	1.6	22
21	Near-Field Investigation of Luminescent Hyperuniform Disordered Materials. Advanced Optical Materials, 2022, 10, .	3.6	19
22	Over 65% Sunlight Absorption in a 1 μ m Si Slab with Hyperuniform Texture. ACS Photonics, 2022, 9, 1206-1217.	3.2	19
23	Spin-orbit interaction and spin relaxation in a lateral quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 414-417.	1.3	14
24	Unfolding the band structure of non-crystalline photonic band gap materials. Scientific Reports, 2015, 5, 13301.	1.6	14
25	Single photons on demand from 3D photonic band-gap structures. Europhysics Letters, 2005, 69, 945-951.	0.7	13
26	Thermal emission from finite photonic crystals. Applied Physics Letters, 2009, 95, .	1.5	13
27	Single photons on demand from tunable 3D photonic band-gap structures. Journal of Modern Optics, 2007, 54, 409-416.	0.6	10
28	Properties of thermal radiation in photonic crystals. Journal of Optics, 2009, 11, 114005.	1.5	9
29	Unfolding the band structure of GaAsBi. Journal of Physics Condensed Matter, 2017, 29, 075001.	0.7	9
30	Micrometric Monodisperse Solid Foams as Complete Photonic Bandgap Materials. ACS Applied Materials & Interfaces, 2020, 12, 32061-32068.	4.0	9
31	Exploiting the Quantum Zeno effect to beat photon loss in linear optical quantum information processors. Optics Communications, 2005, 254, 374-379.	1.0	8
32	Freeform Phononic Waveguides. Crystals, 2017, 7, 353.	1.0	7
33	High-Q photonic crystal cavities in all-semiconductor photonic crystal heterostructures. Physical Review B, 2017, 95, .	1.1	6
34	Modelling non-Markovian dynamics in photonic crystals with recurrent neural networks. Optical Materials Express, 2021, 11, 2037.	1.6	5
35	Nonlinear tuning of 3D photonic band-gap structures for single-photon on demand sources. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 484-487.	1.3	3
36	Non-Destructive Porosity Measurements of 3D Printed Polymer by Terahertz Time-Domain Spectroscopy. Applied Sciences (Switzerland), 2022, 12, 927.	1.3	3

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37	Non-Markovian dynamics of a single excitation within many-body dissipative systems. Physical Review A, 2022, 105, .	1.0	2
38	All-Optical Transistor Action in Photonic Band Gap Materials. , 2003, , .		1
39	Publisher's Note: Optical cavities and waveguides in hyperuniform disordered photonic solids [Phys. Rev. B87, 165116 (2013)]. Physical Review B, 2013, 87, .	1.1	1
40	Hyperuniform disordered photonic band gap devices for silicon photonics. , 2014, , .		1
41	Isotropic band gaps, optical cavities, and freeform waveguides in hyperuniform disordered photonic solids. Proceedings of SPIE, 2014, , .	0.8	1
42	Silicon waveguides and filters in hyperuniform disordered photonic solids for the near-infrared. , 2014, , .		1
43	Hyperuniform photonic slabs for high-Q cavities and low-loss waveguides. , 2015, , .		1
44	Experimental observation of photonic bandgaps in hyperuniform disordered material. , 2010, , .		1
45	Freeform wave-guiding at infrared regime in two dimensional disordered photonic bandgap materials. , 2013, , .		1
46	Three-Dimensional Photonic Band-Gap Structures For Single-Photon on Demand Sources. , 2006, , .		0
47	New classes of non-crystalline photonic band gap materials. , 2009, , .		0
48	Thermal emission from finite photonic crystals. Proceedings of SPIE, 2010, , .	0.8	0
49	New designer dielectric metamaterial with isotropic photonic band gap. , 2013, , .		0
50	Hyperuniform disordered photonic band gap silicon devices for optical interconnects. , 2014, , .		0
51	Selectively reflective transparent sheets. Proceedings of SPIE, 2015, , .	0.8	0
52	Hyperuniform plasmonic metasurfaces, controlling light with correlated disorder. , 2016, , .		0
53	Thermal emission and absorption of radiation in inverted opal photonic crystals. , 2004, , .		0
54	On the Emission and Absorption of Thermal Radiation in Photonic Crystals. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
55	Freeform wave-guiding and tunable frequency splitting in isotropic disordered photonic band gap materials. , 2012, , .		0
56	Experimental demonstration of guiding, bending, and filtering of electromagnetic wave in disordered photonic band gap materials. , 2012, , .		0
57	Cavity Modes Study in Hyperuniform Disordered Photonic Bandgap Materials. , 2012, , .		0
58	Photonic Band Gaps and Unusual Photon Transport in Hyperuniform Disordered Structures. , 2012, , .		0
59	Fabrication and optimization for waveguides in sub-micron scale hyperuniform disordered photonic bandgap materials. , 2014, , .		0
60	Flexible Cavity and Waveguide Light Confinement in Hyperuniform Photonic Slabs. , 2015, , .		0
61	Light Confinement in Hyperuniform Photonic Slabs: High-Q Cavities and Low-Loss Waveguides. , 2015, , .		0