

# Fabrizio Sgrignuoli

## List of Publications by Year in descending order

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26  
papers

356  
citations

759233

12  
h-index

794594

19  
g-index

26  
all docs

26  
docs citations

26  
times ranked

475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon nanocrystals as a photoluminescence down shifter for solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1224-1227.	6.2	56
2	Beaming light from a quantum emitter with a planar optical antenna. <i>Light: Science and Applications</i> , 2017, 6, e16245-e16245.	16.6	41
3	Modeling of silicon nanocrystals based down-shifter for enhanced silicon solar cell performance. <i>Journal of Applied Physics</i> , 2012, 111, 034303.	2.5	28
4	Localization of scattering resonances in aperiodic Vogel spirals. <i>Physical Review B</i> , 2019, 99, .	3.2	27
5	Purcell effect and luminescent downshifting in silicon nanocrystals coated back-contact solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 267-274.	6.2	24
6	Necklace State Hallmark in Disordered 2D Photonic Systems. <i>ACS Photonics</i> , 2015, 2, 1636-1643.	6.6	22
7	Multichannel remote polarization control enabled by nanostructured liquid crystalline networks. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	13
8	Cavity quantum electro-dynamics with solid-state emitters in aperiodic nano-photonic spiral devices. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	13
9	Subdiffusive wave transport and weak localization transition in three-dimensional stealthy hyperuniform disordered systems. <i>Physical Review B</i> , 2022, 105, .	3.2	13
10	Electroluminescent devices based on nanosilicon multilayer structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1525-1531.	1.8	12
11	Multifractality of light in photonic arrays based on algebraic number theory. <i>Communications Physics</i> , 2020, 3, .	5.3	12
12	Cavity-enhanced light-matter interaction in Vogel-spiral devices as a platform for quantum photonics. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	12
13	Subdiffusive light transport in three-dimensional subrandom arrays. <i>Physical Review B</i> , 2020, 101, .	3.2	10
14	Compact Dual-Band Multi-Focal Diffractive Lenses. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000207.	8.7	10
15	Aperiodic Photonics of Elliptic Curves. <i>Crystals</i> , 2019, 9, 482.	2.2	8
16	Optical rogue waves in multifractal photonic arrays. <i>Physical Review B</i> , 2021, 103, .	3.2	8
17	Hyperuniformity and wave localization in pinwheel scattering arrays. <i>Physical Review B</i> , 2021, 103, .	3.2	8
18	Quantum effects in silicon for photovoltaic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1071-1075.	1.8	7

#	ARTICLE	IF	CITATIONS
19	Aperiodic bandgap structures for enhanced quantum two-photon sources. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, C94.	2.1	7
20	Phase-Modulated Axileenses As Ultracompact Spectroscopic Tools. <i>ACS Photonics</i> , 2020, 7, 2731-2738.	6.6	6
21	Mechanical and Electric Control of Photonic Modes in Random Dielectrics. <i>Advanced Materials</i> , 2019, 31, 1807274.	21.0	6
22	Compact localized states of open scattering media: a graph decomposition approach for an ab initio design. <i>Optics Letters</i> , 2019, 44, 375.	3.3	5
23	Roughness-induced enhancement of optical absorption in random media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 915.	2.1	4
24	Structural entropy and spatial decay of quasimodes in Vogel spirals. <i>Physical Review B</i> , 2021, 104, .	3.2	4
25	Dielectrics: Mechanical and Electric Control of Photonic Modes in Random Dielectrics ( <i>Adv. Mater.</i> ) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overl	21.0	6
26	Wave Transport and Localization in Prime Number Landscapes. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	0