

Lorenzo Pattelli

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

785
citations

623734

14
h-index

580821

25
g-index

34
all docs

34
docs citations

34
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright-White Beetle Scales Optimise Multiple Scattering of Light. <i>Scientific Reports</i> , 2014, 4, 6075.	3.3	161
2	Bioinspired "Skin" with Cooperative Thermo-Optical Effect for Daytime Radiative Cooling. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25286-25293.	8.0	84
3	CELES: CUDA-accelerated simulation of electromagnetic scattering by large ensembles of spheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 199, 103-110.	2.3	69
4	Anisotropic Light Transport in White Beetle Scales. <i>Advanced Optical Materials</i> , 2015, 3, 1337-1341.	7.3	62
5	Spectral super-resolution spectroscopy using a random laser. <i>Nature Photonics</i> , 2020, 14, 177-182.	31.4	62
6	Engineering Disorder in Superdiffusive "Vy Glasses. <i>Advanced Functional Materials</i> , 2010, 20, 965-968.	14.9	45
7	Biomimetic Polymer Film with Brilliant Brightness Using a One-Step Water Vapor-Induced Phase Separation Method. <i>Advanced Functional Materials</i> , 2019, 29, 1808885.	14.9	44
8	Iridescent Daytime Radiative Cooling with No Absorption Peaks in the Visible Range. <i>Small</i> , 2022, 18, e2202400.	10.0	42
9	Role of packing density and spatial correlations in strongly scattering 3D systems. <i>Optica</i> , 2018, 5, 1037.	9.3	37
10	Liquid Crystal-Induced Myoblast Alignment. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801489.	7.6	36
11	SMUTHI: A python package for the simulation of light scattering by multiple particles near or between planar interfaces. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 273, 107846.	2.3	27
12	Optimized White Reflectance in Photonic Network Structures. <i>Advanced Optical Materials</i> , 2019, 7, 1900043.	7.3	20
13	Spatio-temporal visualization of light transport in complex photonic structures. <i>Light: Science and Applications</i> , 2016, 5, e16090-e16090.	16.6	17
14	Remote control of liquid crystal elastomer random laser using external stimuli. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	15
15	Deducing effective light transport parameters in optically thin systems. <i>New Journal of Physics</i> , 2016, 18, 023036.	2.9	10
16	Spatial coherence of light inside three-dimensional media. <i>Nature Communications</i> , 2021, 12, 4199.	12.8	9
17	Sprayable Ultrablack Coating Based on Hollow Carbon Nanospheres. <i>ACS Applied Nano Materials</i> , 2021, 4, 7995-8002.	5.0	8
18	Finite-Size and Illumination Conditions Effects in All-Dielectric Metasurfaces. <i>Electronics (Switzerland)</i> , 2022, 11, 1017.	3.1	8

#	ARTICLE	IF	CITATIONS
19	Diffusive light transport in semitransparent media. <i>Physical Review A</i> , 2016, 94, .	2.5	7
20	Liquid Crystals: Liquid Crystal-Induced Myoblast Alignment (<i>Adv. Healthcare Mater.</i> 3/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970009.	7.6	7
21	Perspectives and recent advances in super-resolution spectroscopy: Stochastic and disordered-based approaches. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	6
22	Diagnostics and Characterization of Photonic Circuits by Wide-Field Spatiotemporal Imaging. <i>ACS Photonics</i> , 2020, 7, 1491-1499.	6.6	3
23	Light Transport: Anisotropic Light Transport in White Beetle Scales (<i>Advanced Optical Materials</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	7.3	1
24	Biophotonic Films: Biomimetic Polymer Film with Brilliant Brightness Using a One-Step Water Vapor-Induced Phase Separation Method (<i>Adv. Funct. Mater.</i> 23/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970158.	14.9	1
25	Experimental imaging and Monte Carlo modeling of ultrafast pulse propagation in thin scattering slabs. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	1
26	Remote Control of Liquid Crystal Elastomer Random Laser. , 2017, , .		0
27	Focus Point on Complex Photonics. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	0
28	Light scattering optimization of chitin random network in ultrawhite beetle scales. , 2017, , .		0