

Guillaume Gomard

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

996
citations

394421

19
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454955

30
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44
all docs

44
docs citations

44
times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired phase-separated disordered nanostructures for thin photovoltaic absorbers. <i>Science Advances</i> , 2017, 3, e1700232.	10.3	98
2	Two-dimensional photonic crystal for absorption enhancement in hydrogenated amorphous silicon thin film solar cells. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	69
3	Flower Power: Exploiting Plants' Epidermal Structures for Enhanced Light Harvesting in Thin-Film Solar Cells. <i>Advanced Optical Materials</i> , 2016, 4, 1487-1493.	7.3	54
4	Bioinspired Superhydrophobic Highly Transmissive Films for Optical Applications. <i>Small</i> , 2016, 12, 6144-6152.	10.0	54
5	Bio-inspired, large scale, highly-scattering films for nanoparticle-alternative white surfaces. <i>Scientific Reports</i> , 2017, 7, 46637.	3.3	52
6	Nanophotonic perovskite layers for enhanced current generation and mitigation of lead in perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 192, 65-71.	6.2	50
7	Influence of the Emission Layer Thickness on the Optoelectronic Properties of Solution Processed Organic Light-Emitting Diodes. <i>ACS Photonics</i> , 2014, 1, 968-973.	6.6	45
8	Large-Area Screen-Printed Internal Extraction Layers for Organic Light-Emitting Diodes. <i>ACS Photonics</i> , 2017, 4, 928-933.	6.6	43
9	Texture of the Viola Flower for Light Harvesting in Photovoltaics. <i>ACS Photonics</i> , 2017, 4, 2687-2692.	6.6	43
10	Highly Efficient and Water-Stable Lead Halide Perovskite Quantum Dots Using Superhydrophobic Aerogel Inorganic Matrix for White Light-Emitting Diodes. <i>Advanced Materials Technologies</i> , 2020, 5, 1900941.	5.8	42
11	Enhanced Photoluminescence in Quantum Dots-Porous Polymer Hybrid Films Fabricated by Microcellular Foaming. <i>Advanced Optical Materials</i> , 2019, 7, 1900223.	7.3	39
12	Rigorous wave-optical treatment of photon recycling in thermodynamics of photovoltaics: Perovskite thin-film solar cells. <i>Physical Review B</i> , 2018, 98, .	3.2	31
13	Disordered diffraction gratings tailored by shape-memory based wrinkling and their application to photovoltaics. <i>Optical Materials Express</i> , 2018, 8, 184.	3.0	24
14	Compensated Microsphere-Assisted Interference Microscopy. <i>Physical Review Applied</i> , 2020, 13, .	3.8	24
15	Extending the applicability of the T-matrix method to light scattering by flat particles on a substrate via truncation of sommerfeld integrals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 279-285.	2.3	23
16	Light trapping in thin film silicon solar cells via phase separated disordered nanopillars. <i>Nanoscale</i> , 2018, 10, 6651-6659.	5.6	23
17	A Single-Step Hot Embossing Process for Integration of Microlens Arrays in Biodegradable Substrates for Improved Light Extraction of Light-Emitting Devices. <i>Advanced Materials Technologies</i> , 2021, 6, 1900933.	5.8	23
18	Gold nanoplasmonic particles in tunable porous silicon 3D scaffolds for ultra-low concentration detection by SERS. <i>Nanoscale Horizons</i> , 2021, 6, 781-790.	8.0	23

#	ARTICLE	IF	CITATIONS
19	Photon recycling in nanopatterned perovskite thin-films for photovoltaic applications. <i>APL Photonics</i> , 2019, 4, 076104.	5.7	21
20	Light scattering by oblate particles near planar interfaces: on the validity of the T-matrix approach. <i>Optics Express</i> , 2016, 24, 25154.	3.4	20
21	Self-Cleaning Microcavity Array for Photovoltaic Modules. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2929-2936.	8.0	17
22	Modal approach for tailoring the absorption in a photonic crystal membrane. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	16
23	Characterization of the microscopic tribological properties of sandfish (<i>Scincus scincus</i>) scales by atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2618-2627.	2.8	15
24	Phase-Separated Nanophotonic Structures by Inkjet Printing. <i>ACS Nano</i> , 2021, 15, 7305-7317.	14.6	14
25	Simulation of light scattering in large, disordered nanostructures using a periodic T-matrix method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107802.	2.3	14
26	Assessing the influence of structural disorder on the plant epidermal cells' optical properties: a numerical analysis. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 036011.	2.9	12
27	Upscaling the fabrication routine of bioreplicated rose petal light harvesting layers for photovoltaic modules. <i>Solar Energy</i> , 2020, 201, 666-673.	6.1	12
28	Microlens arrays with adjustable aspect ratio fabricated by electrowetting and their application to correlated color temperature tunable light-emitting diodes. <i>Optics Express</i> , 2019, 27, A25.	3.4	12
29	Planarized and Compact Light Scattering Layers Based on Disordered Titania Nanopillars for Light Extraction in Organic Light Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2001610.	7.3	9
30	Hydrogenated Amorphous Silicon Microstructuring for 0th-Order Polarization Elements at 1.0-1.1 μm Wavelength. <i>IEEE Photonics Journal</i> , 2011, 3, 1142-1148.	2.0	8
31	Tuning the Microcavity of Organic Light Emitting Diodes by Solution Processable Polymer-Nanoparticle Composite Layers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2666-2672.	8.0	8
32	Nanostructured front electrodes for perovskite/c-Si tandem photovoltaics. <i>Optics Express</i> , 2020, 28, 8878.	3.4	8
33	Cloaking of metal grid electrodes on Lambertian emitters by free-form refractive surfaces. <i>Optics Letters</i> , 2018, 43, 527.	3.3	7
34	Design of Selective Reflectors Utilizing Multiple Scattering by Core-Shell Nanoparticles for Color Conversion Films. <i>ACS Photonics</i> , 2020, 7, 1452-1460.	6.6	7
35	Snake-Inspired, Nano-Stepped Surface with Tunable Frictional Anisotropy Made from a Shape-Memory Polymer for Unidirectional Transport of Microparticles. <i>Advanced Functional Materials</i> , 2021, 31, 2009611.	14.9	7
36	Horsefly reactions to black surfaces: attractiveness to male and female tabanids versus surface tilt angle and temperature. <i>Parasitology Research</i> , 2020, 119, 2399-2409.	1.6	5

#	ARTICLE	IF	CITATIONS
37	Bioreplicated coatings for photovoltaic solar panels nearly eliminate light pollution that harms polarotactic insects. PLoS ONE, 2020, 15, e0243296.	2.5	5
38	Nanoporous Polymer Reflectors for Organic Solar Cells. Energy Technology, 2022, 10, 2100676.	3.8	5
39	A Self-Assembly Method for Tunable and Scalable Nano-Stamps: A Versatile Approach for Imprinting Nanostructures. Advanced Materials Technologies, 2022, 7, 2101008.	5.8	5
40	High Dynamic Range Smart Window Display by Surface Hydrophilization and Inkjet Printing. Advanced Materials Technologies, 2022, 7, 2101026.	5.8	3
41	Single-pass and omniangle light extraction from light-emitting diodes using transformation optics. Optics Letters, 2015, 40, 5626.	3.3	2
42	Development and characterization of high refractive index and high scattering acrylate polymer layers. Optical Engineering, 2016, 55, 117106.	1.0	2
43	Silver-Nanoparticle-Based Metallodielectric Wavelength-Selective Reflectors for Quantum-Dot-Enhanced White-Light-Emitting Diodes. ACS Applied Nano Materials, 2022, 5, 87-93.	5.0	2
44	Enhanced color conversion of quantum dots - polymer hybrid films in light emitting diodes. , 2019, , .		0