Guillaume Gomard

List of Publications by Year
in descending order

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44	996	394421	454955
papers	citations	19 h-index	30 g-index

44	44	44	1460
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High Dynamic Range Smart Window Display by Surface Hydrophilization and Inkjet Printing. Advanced Materials Technologies, 2022, 7, 2101026.	5.8	3
2	Nanoporous Polymer Reflectors for Organic Solar Cells. Energy Technology, 2022, 10, 2100676.	3.8	5
3	A Selfâ€Assembly Method for Tunable and Scalable Nanoâ€Stamps: A Versatile Approach for Imprinting Nanostructures. Advanced Materials Technologies, 2022, 7, 2101008.	5.8	5
4	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
5	A Singleâ€Step Hot Embossing Process for Integration of Microlens Arrays in Biodegradable Substrates for Improved Light Extraction of Lightâ€Emitting Devices. Advanced Materials Technologies, 2021, 6, 1900933.	5.8	23
6	Planarized and Compact Light Scattering Layers Based on Disordered Titania Nanopillars for Light Extraction in Organic Light Emitting Diodes. Advanced Optical Materials, 2021, 9, 2001610.	7.3	9
7	Gold nanoplasmonic particles in tunable porous silicon 3D scaffolds for ultra-low concentration detection by SERS. Nanoscale Horizons, 2021, 6, 781-790.	8.0	23
8	Snakeâ€Inspired, Nanoâ€Stepped Surface with Tunable Frictional Anisotropy Made from a Shapeâ€Memory Polymer for Unidirectional Transport of Microparticles. Advanced Functional Materials, 2021, 31, 2009611.	14.9	7
9	Phase-Separated Nanophotonic Structures by Inkjet Printing. ACS Nano, 2021, 15, 7305-7317.	14.6	14
10	Simulation of light scattering in large, disordered nanostructures using a periodic T-matrix method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107802.	2.3	14
11	Design of Selective Reflectors Utilizing Multiple Scattering by Coreâ€“Shell Nanoparticles for Color Conversion Films. ACS Photonics, 2020, 7, 1452-1460.	6.6	7
12	Upscaling the fabrication routine of bioreplicated rose petal light harvesting layers for photovoltaic modules. Solar Energy, 2020, 201, 666-673.	6.1	12
13	Highly Efficient and Waterâ€Stable Lead Halide Perovskite Quantum Dots Using Superhydrophobic Aerogel Inorganic Matrix for White Lightâ€Emitting Diodes. Advanced Materials Technologies, 2020, 5, 1900941.	5.8	42
14	Compensated Microsphere-Assisted Interference Microscopy. Physical Review Applied, 2020, 13, .	3.8	24
15	Horsefly reactions to black surfaces: attractiveness to male and female tabanids versus surface tilt angle and temperature. Parasitology Research, 2020, 119, 2399-2409.	1.6	5
16	Nanostructured front electrodes for perovskite/c-Si tandem photovoltaics. Optics Express, 2020, 28, 8878.	3.4	8
17	Bioreplicated coatings for photovoltaic solar panels nearly eliminate light pollution that harms polarotactic insects. PLoS ONE, 2020, 15, e0243296.	2.5	5
18	Photon recycling in nanopatterned perovskite thin-films for photovoltaic applications. APL Photonics, 2019, 4, 076104.	5.7	21

#	Article	IF	Citations
19	Enhanced Photoluminescence in Quantum Dotsâ€“Porous Polymer Hybrid Films Fabricated by Microcellular Foaming. Advanced Optical Materials, 2019, 7, 1900223.	7.3	39
20	Enhanced color conversion of quantum dots - polymer hybrid films in light emitting diodes. , 2019, , .		0
21	Nanophotonic perovskite layers for enhanced current generation and mitigation of lead in perovskite solar cells. Solar Energy Materials and Solar Cells, 2019, 192, 65-71.	6.2	50
22	Microlens arrays with adjustable aspect ratio fabricated by electrowetting and their application to correlated color temperature tunable light-emitting diodes. Optics Express, 2019, 27, A25.	3.4	12
23	Light trapping in thin film silicon solar cells via phase separated disordered nanopillars. Nanoscale, 2018, 10, 6651-6659.	5.6	23
24	Self-Cleaning Microcavity Array for Photovoltaic Modules. ACS Applied Materials & Interfaces, 2018, 10, 2929-2936.	8.0	17
25	Characterization of the microscopic tribological properties of sandfish (Scincus scincus) scales by atomic force microscopy. Beilstein Journal of Nanotechnology, 2018, 9, 2618-2627.	2.8	15
26	Disordered diffraction gratings tailored by shape-memory based wrinkling and their application to photovoltaics. Optical Materials Express, 2018, 8, 184.	3.0	24
27	Cloaking of metal grid electrodes on Lambertian emitters by free-form refractive surfaces. Optics Letters, 2018, 43, 527.	3.3	7
28	Rigorous wave-optical treatment of photon recycling in thermodynamics of photovoltaics: Perovskite thin-film solar cells. Physical Review B, 2018, 98, .	3.2	31
29	Large-Area Screen-Printed Internal Extraction Layers for Organic Light-Emitting Diodes. ACS Photonics, 2017, 4, 928-933.	6.6	43
30	Bio-inspired, large scale, highly-scattering films for nanoparticle-alternative white surfaces. Scientific Reports, 2017, 7, 46637.	3.3	52
31	Assessing the influence of structural disorder on the plant epidermal cellsâ€™ optical properties: a numerical analysis. Bioinspiration and Biomimetics, 2017, 12, 036011.	2.9	12
32	Texture of the Viola Flower for Light Harvesting in Photovoltaics. ACS Photonics, 2017, 4, 2687-2692.	6.6	43
33	Bioinspired phase-separated disordered nanostructures for thin photovoltaic absorbers. Science Advances, 2017, 3, e1700232.	10.3	98
34	Extending the applicability of the T-matrix method to light scattering by flat particles on a substrate via truncation of sommerfeld integrals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 279-285.	2.3	23
35	Light scattering by oblate particles near planar interfaces: on the validity of the T-matrix approach. Optics Express, 2016, 24, 25154.	3.4	20
36	Flower Power: Exploiting Plants' Epidermal Structures for Enhanced Light Harvesting in Thinâ€Film Solar Cells. Advanced Optical Materials, 2016, 4, 1487-1493.	7.3	54

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37	Development and characterization of high refractive index and high scattering acrylate polymer layers. Optical Engineering, 2016, 55, 117106.	1.0	2
38	Bioinspired Superhydrophobic Highly Transmissive Films for Optical Applications. Small, 2016, 12, 6144-6152.	10.0	54
39	Tuning the Microcavity of Organic Light Emitting Diodes by Solution Processable Polymerâ€“Nanoparticle Composite Layers. ACS Applied Materials & Interfaces, 2016, 8, 2666-2672.	8.0	8
40	Single-pass and omniangle light extraction from light-emitting diodes using transformation optics. Optics Letters, 2015, 40, 5626.	3.3	2
41	Influence of the Emission Layer Thickness on the Optoelectronic Properties of Solution Processed Organic Light-Emitting Diodes. ACS Photonics, 2014, 1, 968-973.	6.6	45
42	Modal approach for tailoring the absorption in a photonic crystal membrane. Journal of Applied Physics, 2012, 111, .	2.5	16
43	Hydrogenated Amorphous Silicon Microstructuring for 0th-Order Polarization Elements at 1.0â€“1.1 $muhbox{m}$ Wavelength. IEEE Photonics Journal, 2011, 3, 1142-1148.	2.0	8
44	Two-dimensional photonic crystal for absorption enhancement in hydrogenated amorphous silicon thin film solar cells. Journal of Applied Physics, 2010, 108, .	2.5	69