Gabriel Lozano

List of Publications by Year
in descending order

82 papers	3,196 citations	218677 26 h-index	149698 56 g-index
82 all docs	82 docs citations	82 times ranked	4820 citing authors

#	Article	IF	Citations
1	Enhanced up-conversion photoluminescence in fluorideâ€“oxyfluoride nanophosphor films by embedding gold nanoparticles. Materials Advances, 2022, 3, 4235-4242.	5.4	8
2	Transparent Phosphor Thin Films Based on Rareâ€Earthâ€Doped Garnets: Building Blocks for Versatile Persistent Luminescence Materials. Advanced Photonics Research, 2022, 3, .	3.6	3
3	Emerging materials and devices for efficient light generation. Journal of Applied Physics, 2022, 131, .	2.5	1
4	Transparent Phosphor Thin Films Based on Rareâ€Earthâ€Doped Garnets: Building Blocks for Versatile Persistent Luminescence Materials. Advanced Photonics Research, 2022, 3, .	3.6	1
5	Enhanced Directional Light Extraction from Patterned Rareâ€Earth Phosphor Films. Advanced Optical Materials, 2021, 9, 2001611.	7.3	17
6	One-reactor vacuum and plasma synthesis of transparent conducting oxide nanotubes and nanotrees: from single wire conductivity to ultra-broadband perfect absorbers in the NIR. Nanoscale, 2021, 13, 13882-13895.	5.6	4
7	Persistent luminescence of transparent ZnGa₂O₄:Cr³⁺ thin films from colloidal nanoparticles of tunable size. Journal of Materials Chemistry C, 2021, 9, 4474-4485.	5.5	19
8	High-temperature solar-selective coatings based on Cr(Al)N. Part 1: Microstructure and optical properties of CrNy and Cr1-xAlxNy films prepared by DC/HiPIMS. Solar Energy Materials and Solar Cells, 2021, 223, 110951.	6.2	4
9	Highly Versatile Upconverting Oxyfluoride-Based Nanophosphor Films. ACS Applied Materials & Interfaces, 2021, 13, 30051-30060.	8.0	10
10	Persistent luminescent nanoparticles: Challenges and opportunities for a shimmering future. Journal of Applied Physics, 2021, 130, .	2.5	20
11	Nanophotonics for current and future white light-emitting devices. Journal of Applied Physics, 2021, 130, .	2.5	8
12	Dipole reorientation and local density of optical states influence the emission of light-emitting electrochemical cells. Physical Chemistry Chemical Physics, 2020, 22, 92-96.	2.8	5
13	Localized surface plasmon effects on the photophysics of perovskite thin films embedding metal nanoparticles. Journal of Materials Chemistry C, 2020, 8, 916-921.	5.5	28
14	Finite Size Effects on Light Propagation throughout Random Media: Relation between Optical Properties and Scattering Event Statistics. Advanced Optical Materials, 2020, 8, 1901196.	7.3	4
15	Efficient third harmonic generation from FAPbBr₃ perovskite nanocrystals. Journal of Materials Chemistry C, 2020, 8, 15990-15995.	5.5	20
16	Optical Responses of Localized and Extended Modes in a Mesoporous Layer on Plasmonic Array to Isopropanol Vapor. Journal of Physical Chemistry C, 2020, 124, 5772-5779.	3.1	3
17	Synthesis, functionalization and properties of uniform europium-doped sodium lanthanum tungstate and molybdate (NaLa(XO4)2, Xâ€¯=â€¯Mo,W) probes for luminescent and X-ray computed tomography bioimaging. Journal of Colloid and Interface Science, 2019, 554, 520-530.	9.4	18
18	Flexible nanophosphor films doped with Mie resonators for enhanced out-coupling of the emission. Journal of Materials Chemistry C, 2019, 7, 267-274.	5.5	14

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19	Tamm Plasmons Directionally Enhance Rare-Earth Nanophosphor Emission. ACS Photonics, 2019, 6, 634-641.	6.6	17
20	Highly Efficient Transparent Nanophosphor Films for Tunable White-Light-Emitting Layered Coatings. ACS Applied Materials & Interfaces, 2019, 11, 4219-4225.	8.0	16
21	Nanophotonics Tunes Rare-Earth Nanophosphor Emission. , 2019, , .		0
22	Transparent nanophosphor films for efficient white-light generation. , 2019, , .		0
23	Photonic structuring improves the colour purity of rare-earth nanophosphors. Materials Horizons, 2018, 5, 661-667.	12.2	15
24	Revealing the substitution mechanism in Eu³⁺:CaMoO₄and Eu³⁺,Na⁺:CaMoO₄phosphors. Journal of Materials Chemistry C, 2018, 6, 12830-12840.	5.5	34
25	High voltage vacuum-deposited CH₃NH₃PbI₃â€“CH₃NH₃PbI₃ tandem solar cells. Energy and Environmental Science, 2018, 11, 3292-3297.	30.8	98
26	The Role of Metal Halide Perovskites in Next-Generation Lighting Devices. Journal of Physical Chemistry Letters, 2018, 9, 3987-3997.	4.6	53
27	Photonic Tuning of the Emission Color of Nanophosphor Films Processed at High Temperature. Advanced Optical Materials, 2017, 5, 1700099.	7.3	21
28	Design and Realization of a Novel Optically Disordered Material: A Demonstration of a Mie Glass. Advanced Optical Materials, 2017, 5, 1700025.	7.3	8
29	Fluorescent Humidity Sensors Based on Photonic Resonators. Advanced Optical Materials, 2017, 5, 1700663.	7.3	28
30	ABX3 Perovskites for Tandem Solar Cells. Joule, 2017, 1, 769-793.	24.0	176
31	Photonic Tuning of Nanophosphor Transparent thin films. , 2017, , .		0
32	Optical design of all-perovskite tandem solar cells. , 2017, , .		1
33	Unbroken Perovskite: Interplay of Morphology, Electroâ€optical Properties, and Ionic Movement. Advanced Materials, 2016, 28, 5031-5037.	21.0	242
34	Optical analysis of CH₃NH₃Sn_xPb_{1â^'x}I₃ absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. Journal of Materials Chemistry A, 2016, 4, 11214-11221.	10.3	101
35	Modified emission of extended light emitting layers by selective coupling to collective lattice resonances. Physical Review B, 2016, 94, .	3.2	55
36	Metallic nanostructures for efficient LED lighting. Light: Science and Applications, 2016, 5, e16080-e16080.	16.6	161

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37	Efficient bifacial dye-sensitized solar cells through disorder by design. Journal of Materials Chemistry A, 2016, 4, 1953-1961.	10.3	33
38	Nanophotonics for Color Conversion in Solid-State Lighting. , 2016, , .		0
39	Highly Efficient Perovskite Solar Cells with Tunable Structural Color. Nano Letters, 2015, 15, 1698-1702.	9.1	289
40	Design and realization of transparent solar modules based on luminescent solar concentrators integrating nanostructured photonic crystals. Progress in Photovoltaics: Research and Applications, 2015, 23, 1785-1792.	8.1	15
41	Control of the external photoluminescent quantum yield of emitters coupled to nanoantenna phased arrays. Journal of Applied Physics, 2015, 118, .	2.5	27
42	Optical Description of Mesostructured Organicâ€“Inorganic Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 48-53.	4.6	59
43	Directional absorption by phased arrays of plasmonic nanoantennae probed with time-reversed Fourier microscopy. New Journal of Physics, 2014, 16, 013040.	2.9	21
44	Plasmonic LED device. , 2014, , .		1
45	Light Harvesting: Multidirectional Light-Harvesting Enhancement in Dye Solar Cells by Surface Patterning (Advanced Optical Materials 9/2014). Advanced Optical Materials, 2014, 2, 804-804.	7.3	0
46	Tailor-made directional emission in nanoimprinted plasmonic-based light-emitting devices. Nanoscale, 2014, 6, 9223-9229.	5.6	87
47	Multidirectional Lightâ€Harvesting Enhancement in Dye Solar Cells by Surface Patterning. Advanced Optical Materials, 2014, 2, 879-884.	7.3	14
48	Plasmonics for solid-state lighting: enhanced excitation and directional emission of highly efficient light sources. Light: Science and Applications, 2013, 2, e66-e66.	16.6	335
49	Coherent and Broadband Enhanced Optical Absorption in Graphene. ACS Nano, 2013, 7, 4810-4817.	14.6	190
50	Near-field resonance at far-field-induced transparency in diffractive arrays of plasmonic nanorods. Optics Letters, 2013, 38, 1238.	3.3	13
51	Excitation of confined modes on particle arrays. Optics Express, 2013, 21, 5636.	3.4	12
52	Hybrid plasmonic-photonic modes in diffractive arrays of nanoparticles coupled to light-emitting optical waveguides. Optics Express, 2013, 21, 4250.	3.4	90
53	Symmetry analysis of the numerical instabilities in the transfer matrix method. Journal of Optics (United Kingdom), 2013, 15, 125719.	2.2	6
54	Enhanced absorption and emission of Y_3Al_5O_12:Ce^3+ thin layers prepared by epoxide-catalyzed sol-gel method. Optical Materials Express, 2012, 2, 1111.	3.0	30

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55	Quantum rod emission coupled to plasmonic lattice resonances: A collective directional source of polarized light. Applied Physics Letters, 2012, 100, 111103.	3.3	86
56	Coherent absorption and enhanced photoluminescence in thin layers of nanorods. Physical Review B, 2012, 85, .	3.2	11
57	Characterization of Mesoporous Thin Films by Specular Reflectance Porosimetry. Langmuir, 2012, 28, 13777-13782.	3.5	14
58	Plasmonic Crystals for Solid-State Lighting. , 2012, , .		0
59	Modeling the Optical Response of Three-Dimensional Disordered Structures Using theÂKorringaâ€“Kohnâ€“Rostoker Method. Series in Optics and Optoelectronics, 2012, , 39-54.	0.0	0
60	Interplay of Order and Disorder in the High-Energy Optical Response of Three-Dimensional Photonic Crystals. Series in Optics and Optoelectronics, 2012, , 301-322.	0.0	0
61	Porous one dimensional photonic crystals: novel multifunctional materials for environmental and energy applications. Energy and Environmental Science, 2011, 4, 4800.	30.8	114
62	Interplay of Resonant Cavity Modes with Localized Surface Plasmons: Optical Absorption Properties of Bragg Stacks Integrating Gold Nanoparticles. Advanced Materials, 2011, 23, 2108-2112.	21.0	34
63	Photonic Crystals: Interplay of Resonant Cavity Modes with Localized Surface Plasmons: Optical Absorption Properties of Bragg Stacks Integrating Gold Nanoparticles (Adv. Mater. 18/2011). Advanced Materials, 2011, 23, 2024-2024.	21.0	0
64	Analysis of artificial opals by scanning near field optical microscopy. Journal of Applied Physics, 2011, 109, 083514.	2.5	2
65	Anomalous light propagation, finite size-effects and losses in real 3D photonic nanostructures. , 2011, , .		1
66	Anomalous group velocity at the high energy range of real 3D photonic nanostructures. , 2010, , .		1
67	Theoretical Analysis of the Performance of One-Dimensional Photonic Crystal-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 3681-3687.	3.1	73
68	Conformal Growth of Organic Luminescent Planar Defects within Artificial Opals. Chemistry of Materials, 2010, 22, 379-385.	6.7	9
69	Anomalous group velocity at the high energy range of a 3D photonic nanostructure. Optics Express, 2010, 18, 15682.	3.4	2
70	Angular dependence of the intensity of light beams diffracted by colloidal crystals. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1394.	2.1	4
71	TiO2â€“SiO2 one-dimensional photonic crystals of controlled porosity by glancing angle physical vapour deposition. Journal of Materials Chemistry, 2010, 20, 6408.	6.7	64
72	Environmentally responsive nanoparticle-based luminescent optical resonators. Nanoscale, 2010, 2, 936.	5.6	24

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73	Optical Analysis of the Fine Crystalline Structure of Artificial Opal Films. Langmuir, 2009, 25, 12860-12864.	3.5	13
74	Light generation at the anomalous dispersion high energy range of a nonlinear opal film. Optics Express, 2009, 17, 12210.	3.4	9
75	Towards a full understanding of the growth dynamics and optical response of self-assembled photonic colloidal crystal films. Journal of Materials Chemistry, 2009, 19, 185-190.	6.7	26
76	Molding with nanoparticle-based one-dimensional photonic crystals: a route to flexible and transferable Bragg mirrors of high dielectric contrast. Journal of Materials Chemistry, 2009, 19, 3144.	6.7	61
77	Sorption Properties of Mesoporous Multilayer Thin Films. Journal of Physical Chemistry C, 2008, 112, 3157-3163.	3.1	110
78	Relation between growth dynamics and the spatial distribution of intrinsic defects in self-assembled colloidal crystal films. Applied Physics Letters, 2008, 92, .	3.3	16
79	Experimental and theoretical analysis of the intensity of beams diffracted by three-dimensional photonic crystals. Physical Review B, 2008, 78, .	3.2	20
80	Interplay between crystal-size and disorder effects in the high-energy optical response of photonic crystal slabs. Physical Review B, 2007, 76, .	3.2	23
81	Physical origin of the high energy optical response of three dimensional photonic crystals. Optics Express, 2007, 15, 17754.	3.4	16
82	Growth Dynamics of Self-Assembled Colloidal Crystal Thin Films. Langmuir, 2007, 23, 9933-9938.	3.5	28