

Gabriel Lozano

List of Publications by Year in descending order

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82
papers

3,196
citations

218677

26
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149698

56
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82
all docs

82
docs citations

82
times ranked

4820
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonics for solid-state lighting: enhanced excitation and directional emission of highly efficient light sources. <i>Light: Science and Applications</i> , 2013, 2, e66-e66.	16.6	335
2	Highly Efficient Perovskite Solar Cells with Tunable Structural Color. <i>Nano Letters</i> , 2015, 15, 1698-1702.	9.1	289
3	Unbroken Perovskite: Interplay of Morphology, Electro-optical Properties, and Ionic Movement. <i>Advanced Materials</i> , 2016, 28, 5031-5037.	21.0	242
4	Coherent and Broadband Enhanced Optical Absorption in Graphene. <i>ACS Nano</i> , 2013, 7, 4810-4817.	14.6	190
5	ABX ₃ Perovskites for Tandem Solar Cells. <i>Joule</i> , 2017, 1, 769-793.	24.0	176
6	Metallic nanostructures for efficient LED lighting. <i>Light: Science and Applications</i> , 2016, 5, e16080-e16080.	16.6	161
7	Porous one dimensional photonic crystals: novel multifunctional materials for environmental and energy applications. <i>Energy and Environmental Science</i> , 2011, 4, 4800.	30.8	114
8	Sorption Properties of Mesoporous Multilayer Thin Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3157-3163.	3.1	110
9	Optical analysis of CH ₃ NH ₃ Sn _x Pb _{1-x} I ₃ absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11214-11221.	10.3	101
10	High voltage vacuum-deposited CH ₃ NH ₃ PbI ₃ "CH ₃ NH ₃ PbI ₃ tandem solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 3292-3297.	30.8	98
11	Hybrid plasmonic-photonic modes in diffractive arrays of nanoparticles coupled to light-emitting optical waveguides. <i>Optics Express</i> , 2013, 21, 4250.	3.4	90
12	Tailor-made directional emission in nanoimprinted plasmonic-based light-emitting devices. <i>Nanoscale</i> , 2014, 6, 9223-9229.	5.6	87
13	Quantum rod emission coupled to plasmonic lattice resonances: A collective directional source of polarized light. <i>Applied Physics Letters</i> , 2012, 100, 111103.	3.3	86
14	Theoretical Analysis of the Performance of One-Dimensional Photonic Crystal-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3681-3687.	3.1	73
15	TiO ₂ "SiO ₂ one-dimensional photonic crystals of controlled porosity by glancing angle physical vapour deposition. <i>Journal of Materials Chemistry</i> , 2010, 20, 6408.	6.7	64
16	Molding with nanoparticle-based one-dimensional photonic crystals: a route to flexible and transferable Bragg mirrors of high dielectric contrast. <i>Journal of Materials Chemistry</i> , 2009, 19, 3144.	6.7	61
17	Optical Description of Mesostructured Organic "Inorganic Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 48-53.	4.6	59
18	Modified emission of extended light emitting layers by selective coupling to collective lattice resonances. <i>Physical Review B</i> , 2016, 94, .	3.2	55

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19	The Role of Metal Halide Perovskites in Next-Generation Lighting Devices. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3987-3997.	4.6	53
20	Interplay of Resonant Cavity Modes with Localized Surface Plasmons: Optical Absorption Properties of Bragg Stacks Integrating Gold Nanoparticles. <i>Advanced Materials</i> , 2011, 23, 2108-2112.	21.0	34
21	Revealing the substitution mechanism in $\text{Eu}^{3+}:\text{CaMoO}_4$ and $\text{Eu}^{3+},\text{Na}^{+}:\text{CaMoO}_4$ phosphors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12830-12840.	5.5	34
22	Efficient bifacial dye-sensitized solar cells through disorder by design. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1953-1961.	10.3	33
23	Enhanced absorption and emission of $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Ce}^{3+}$ thin layers prepared by epoxide-catalyzed sol-gel method. <i>Optical Materials Express</i> , 2012, 2, 1111.	3.0	30
24	Growth Dynamics of Self-Assembled Colloidal Crystal Thin Films. <i>Langmuir</i> , 2007, 23, 9933-9938.	3.5	28
25	Fluorescent Humidity Sensors Based on Photonic Resonators. <i>Advanced Optical Materials</i> , 2017, 5, 1700663.	7.3	28
26	Localized surface plasmon effects on the photophysics of perovskite thin films embedding metal nanoparticles. <i>Journal of Materials Chemistry C</i> , 2020, 8, 916-921.	5.5	28
27	Control of the external photoluminescent quantum yield of emitters coupled to nanoantenna phased arrays. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	27
28	Towards a full understanding of the growth dynamics and optical response of self-assembled photonic colloidal crystal films. <i>Journal of Materials Chemistry</i> , 2009, 19, 185-190.	6.7	26
29	Environmentally responsive nanoparticle-based luminescent optical resonators. <i>Nanoscale</i> , 2010, 2, 936.	5.6	24
30	Interplay between crystal-size and disorder effects in the high-energy optical response of photonic crystal slabs. <i>Physical Review B</i> , 2007, 76, .	3.2	23
31	Directional absorption by phased arrays of plasmonic nanoantennae probed with time-reversed Fourier microscopy. <i>New Journal of Physics</i> , 2014, 16, 013040.	2.9	21
32	Photonic Tuning of the Emission Color of Nanophosphor Films Processed at High Temperature. <i>Advanced Optical Materials</i> , 2017, 5, 1700099.	7.3	21
33	Experimental and theoretical analysis of the intensity of beams diffracted by three-dimensional photonic crystals. <i>Physical Review B</i> , 2008, 78, .	3.2	20
34	Efficient third harmonic generation from FAPbBr_3 perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15990-15995.	5.5	20
35	Persistent luminescent nanoparticles: Challenges and opportunities for a shimmering future. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	20
36	Persistent luminescence of transparent $\text{ZnGa}_2\text{O}_4:\text{Cr}^{3+}$ thin films from colloidal nanoparticles of tunable size. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4474-4485.	5.5	19

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37	Synthesis, functionalization and properties of uniform europium-doped sodium lanthanum tungstate and molybdate (NaLa(XO ₄) ₂ , X = Mo, W) probes for luminescent and X-ray computed tomography bioimaging. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 520-530.	9.4	18
38	Tamm Plasmons Directionally Enhance Rare-Earth Nanophosphor Emission. <i>ACS Photonics</i> , 2019, 6, 634-641.	6.6	17
39	Enhanced Directional Light Extraction from Patterned Rare-Earth Phosphor Films. <i>Advanced Optical Materials</i> , 2021, 9, 2001611.	7.3	17
40	Physical origin of the high energy optical response of three dimensional photonic crystals. <i>Optics Express</i> , 2007, 15, 17754.	3.4	16
41	Relation between growth dynamics and the spatial distribution of intrinsic defects in self-assembled colloidal crystal films. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	16
42	Highly Efficient Transparent Nanophosphor Films for Tunable White-Light-Emitting Layered Coatings. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4219-4225.	8.0	16
43	Design and realization of transparent solar modules based on luminescent solar concentrators integrating nanostructured photonic crystals. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1785-1792.	8.1	15
44	Photonic structuring improves the colour purity of rare-earth nanophosphors. <i>Materials Horizons</i> , 2018, 5, 661-667.	12.2	15
45	Characterization of Mesoporous Thin Films by Specular Reflectance Porosimetry. <i>Langmuir</i> , 2012, 28, 13777-13782.	3.5	14
46	Multidirectional Light Harvesting Enhancement in Dye Solar Cells by Surface Patterning. <i>Advanced Optical Materials</i> , 2014, 2, 879-884.	7.3	14
47	Flexible nanophosphor films doped with Mie resonators for enhanced out-coupling of the emission. <i>Journal of Materials Chemistry C</i> , 2019, 7, 267-274.	5.5	14
48	Optical Analysis of the Fine Crystalline Structure of Artificial Opal Films. <i>Langmuir</i> , 2009, 25, 12860-12864.	3.5	13
49	Near-field resonance at far-field-induced transparency in diffractive arrays of plasmonic nanorods. <i>Optics Letters</i> , 2013, 38, 1238.	3.3	13
50	Excitation of confined modes on particle arrays. <i>Optics Express</i> , 2013, 21, 5636.	3.4	12
51	Coherent absorption and enhanced photoluminescence in thin layers of nanorods. <i>Physical Review B</i> , 2012, 85, .	3.2	11
52	Highly Versatile Upconverting Oxyfluoride-Based Nanophosphor Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30051-30060.	8.0	10
53	Light generation at the anomalous dispersion high energy range of a nonlinear opal film. <i>Optics Express</i> , 2009, 17, 12210.	3.4	9
54	Conformal Growth of Organic Luminescent Planar Defects within Artificial Opals. <i>Chemistry of Materials</i> , 2010, 22, 379-385.	6.7	9

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55	Design and Realization of a Novel Optically Disordered Material: A Demonstration of a Mie Glass. <i>Advanced Optical Materials</i> , 2017, 5, 1700025.	7.3	8
56	Nanophotonics for current and future white light-emitting devices. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	8
57	Enhanced up-conversion photoluminescence in fluorideoxyfluoride nanophosphor films by embedding gold nanoparticles. <i>Materials Advances</i> , 2022, 3, 4235-4242.	5.4	8
58	Symmetry analysis of the numerical instabilities in the transfer matrix method. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 125719.	2.2	6
59	Dipole reorientation and local density of optical states influence the emission of light-emitting electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 92-96.	2.8	5
60	Angular dependence of the intensity of light beams diffracted by colloidal crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 1394.	2.1	4
61	Finite Size Effects on Light Propagation throughout Random Media: Relation between Optical Properties and Scattering Event Statistics. <i>Advanced Optical Materials</i> , 2020, 8, 1901196.	7.3	4
62	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. <i>Nanoscale</i> , 2021, 13, 13882-13895.	5.6	4
63	High-temperature solar-selective coatings based on Cr(Al)N. Part 1: Microstructure and optical properties of CrNy and Cr _{1-x} Al _x Ny films prepared by DC/HiPIMS. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110951.	6.2	4
64	Optical Responses of Localized and Extended Modes in a Mesoporous Layer on Plasmonic Array to Isopropanol Vapor. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5772-5779.	3.1	3
65	Transparent Phosphor Thin Films Based on RareEarthDoped Garnets: Building Blocks for Versatile Persistent Luminescence Materials. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	3
66	Anomalous group velocity at the high energy range of a 3D photonic nanostructure. <i>Optics Express</i> , 2010, 18, 15682.	3.4	2
67	Analysis of artificial opals by scanning near field optical microscopy. <i>Journal of Applied Physics</i> , 2011, 109, 083514.	2.5	2
68	Anomalous group velocity at the high energy range of real 3D photonic nanostructures. , 2010, , .		1
69	Anomalous light propagation, finite size-effects and losses in real 3D photonic nanostructures. , 2011, , .		1
70	Plasmonic LED device. , 2014, , .		1
71	Optical design of all-perovskite tandem solar cells. , 2017, , .		1
72	Emerging materials and devices for efficient light generation. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	1

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73	Transparent Phosphor Thin Films Based on Rare-Earth-Doped Garnets: Building Blocks for Versatile Persistent Luminescence Materials. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	1
74	Photonic Crystals: Interplay of Resonant Cavity Modes with Localized Surface Plasmons: Optical Absorption Properties of Bragg Stacks Integrating Gold Nanoparticles (<i>Adv. Mater.</i> 18/2011). <i>Advanced Materials</i> , 2011, 23, 2024-2024.	21.0	0
75	Light Harvesting: Multidirectional Light-Harvesting Enhancement in Dye Solar Cells by Surface Patterning (<i>Advanced Optical Materials</i> 9/2014). <i>Advanced Optical Materials</i> , 2014, 2, 804-804.	7.3	0
76	Photonic Tuning of Nanophosphor Transparent thin films. , 2017, , .		0
77	Plasmonic Crystals for Solid-State Lighting. , 2012, , .		0
78	Modeling the Optical Response of Three-Dimensional Disordered Structures Using the ÅKorringa-Kohn-Rostoker Method. <i>Series in Optics and Optoelectronics</i> , 2012, , 39-54.	0.0	0
79	Interplay of Order and Disorder in the High-Energy Optical Response of Three-Dimensional Photonic Crystals. <i>Series in Optics and Optoelectronics</i> , 2012, , 301-322.	0.0	0
80	Nanophotonics for Color Conversion in Solid-State Lighting. , 2016, , .		0
81	Nanophotonics Tunes Rare-Earth Nanophosphor Emission. , 2019, , .		0
82	Transparent nanophosphor films for efficient white-light generation. , 2019, , .		0