

# Gabriel Lozano

## List of Publications by Citations

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72  
papers

2,576  
citations

24  
h-index

50  
g-index

82  
ext. papers

2,920  
ext. citations

8  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
72	Plasmonics for solid-state lighting: enhanced excitation and directional emission of highly efficient light sources. <i>Light: Science and Applications</i> , <b>2013</b> , 2, e66-e66	16.7	292
71	Highly efficient perovskite solar cells with tunable structural color. <i>Nano Letters</i> , <b>2015</b> , 15, 1698-702	11.5	240
70	Unbroken Perovskite: Interplay of Morphology, Electro-optical Properties, and Ionic Movement. <i>Advanced Materials</i> , <b>2016</b> , 28, 5031-7	24	208
69	Coherent and broadband enhanced optical absorption in graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 4810-7	16.7	163
68	ABX <sub>3</sub> Perovskites for Tandem Solar Cells. <i>Joule</i> , <b>2017</b> , 1, 769-793	27.8	125
67	Metallic nanostructures for efficient LED lighting. <i>Light: Science and Applications</i> , <b>2016</b> , 5, e16080	16.7	123
66	Sorption Properties of Mesoporous Multilayer Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3157-3163	3.8	101
65	Porous one dimensional photonic crystals: novel multifunctional materials for environmental and energy applications. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4800	35.4	96
64	Optical analysis of CH <sub>3</sub> NH <sub>3</sub> Sn Pb I absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11214-11221	13	87
63	Hybrid plasmonic-photonic modes in diffractive arrays of nanoparticles coupled to light-emitting optical waveguides. <i>Optics Express</i> , <b>2013</b> , 21, 4250-62	3.3	75
62	High voltage vacuum-deposited CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> tandem solar cells. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3292-3297	35.4	74
61	Quantum rod emission coupled to plasmonic lattice resonances: A collective directional source of polarized light. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 111103	3.4	70
60	Tailor-made directional emission in nanoimprinted plasmonic-based light-emitting devices. <i>Nanoscale</i> , <b>2014</b> , 6, 9223-9	7.7	64
59	TiO <sub>2</sub> /SiO <sub>2</sub> one-dimensional photonic crystals of controlled porosity by glancing angle physical vapour deposition. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 6408		63
58	Theoretical Analysis of the Performance of One-Dimensional Photonic Crystal-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3681-3687	3.8	62
57	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> , <b>2009</b> , 19, 3144		57
56	Optical Description of Mesostructured Organic-Inorganic Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 48-53	6.4	51

55	Modified emission of extended light emitting layers by selective coupling to collective lattice resonances. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	43
54	The Role of Metal Halide Perovskites in Next-Generation Lighting Devices. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3987-3997	6.4	41
53	Interplay of resonant cavity modes with localized surface plasmons: optical absorption properties of Bragg stacks integrating gold nanoparticles. <i>Advanced Materials</i> , <b>2011</b> , 23, 2108-12	24	31
52	Enhanced absorption and emission of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> thin layers prepared by epoxide-catalyzed sol-gel method. <i>Optical Materials Express</i> , <b>2012</b> , 2, 1111	2.6	29
51	Efficient bifacial dye-sensitized solar cells through disorder by design. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1953-1961	13	28
50	Growth dynamics of self-assembled colloidal crystal thin films. <i>Langmuir</i> , <b>2007</b> , 23, 9933-8	4	26
49	Towards a full understanding of the growth dynamics and optical response of self-assembled photonic colloidal crystal films. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 185-190		25
48	Fluorescent Humidity Sensors Based on Photonic Resonators. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700653	6.5	23
47	Environmentally responsive nanoparticle-based luminescent optical resonators. <i>Nanoscale</i> , <b>2010</b> , 2, 936-41	4.7	22
46	Control of the external photoluminescent quantum yield of emitters coupled to nanoantenna phased arrays. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 073103	2.5	20
45	Interplay between crystal-size and disorder effects in the high-energy optical response of photonic crystal slabs. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	20
44	Directional absorption by phased arrays of plasmonic nanoantennae probed with time-reversed Fourier microscopy. <i>New Journal of Physics</i> , <b>2014</b> , 16, 013040	2.9	19
43	Experimental and theoretical analysis of the intensity of beams diffracted by three-dimensional photonic crystals. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	18
42	Localized surface plasmon effects on the photophysics of perovskite thin films embedding metal nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 916-921	7.1	17
41	Revealing the substitution mechanism in Eu <sup>3+</sup> :CaMoO <sub>4</sub> and Eu <sup>3+</sup> ,Na <sup>+</sup> :CaMoO <sub>4</sub> phosphors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12830-12840	7.1	17
40	Relation between growth dynamics and the spatial distribution of intrinsic defects in self-assembled colloidal crystal films. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 091904	3.4	16
39	Synthesis, functionalization and properties of uniform europium-doped sodium lanthanum tungstate and molybdate (NaLa(XO), X = Mo,W) probes for luminescent and X-ray computed tomography bioimaging. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 554, 520-530	9.3	14
38	Physical origin of the high energy optical response of three dimensional photonic crystals. <i>Optics Express</i> , <b>2007</b> , 15, 17754-60	3.3	13

37	Photonic Tuning of the Emission Color of Nanophosphor Films Processed at High Temperature. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700099	8.1	12
36	Multidirectional Light-Harvesting Enhancement in Dye Solar Cells by Surface Patterning. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 879-884	8.1	12
35	Coherent absorption and enhanced photoluminescence in thin layers of nanorods. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	11
34	Near-field resonance at far-field-induced transparency in diffractive arrays of plasmonic nanorods. <i>Optics Letters</i> , <b>2013</b> , 38, 1238-40	3	11
33	Excitation of confined modes on particle arrays. <i>Optics Express</i> , <b>2013</b> , 21, 5636-42	3.3	11
32	Characterization of mesoporous thin films by specular reflectance porosimetry. <i>Langmuir</i> , <b>2012</b> , 28, 13777-82	7	10
31	Optical analysis of the fine crystalline structure of artificial opal films. <i>Langmuir</i> , <b>2009</b> , 25, 12860-4	4	10
30	Tamm Plasmons Directionally Enhance Rare-Earth Nanophosphor Emission. <i>ACS Photonics</i> , <b>2019</b> , 6, 634-641	6.4	10
29	Flexible nanophosphor films doped with Mie resonators for enhanced out-coupling of the emission. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 267-274	7.1	9
28	Design and realization of transparent solar modules based on luminescent solar concentrators integrating nanostructured photonic crystals. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2015</b> , 23, 1785-1792	6.8	9
27	Conformal Growth of Organic Luminescent Planar Defects within Artificial Opals. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 379-385	9.6	9
26	Light generation at the anomalous dispersion high energy range of a nonlinear opal film. <i>Optics Express</i> , <b>2009</b> , 17, 12210-6	3.3	9
25	Efficient third harmonic generation from FAPbBr <sub>3</sub> perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15990-15995	7.1	9
24	Persistent luminescence of transparent ZnGa <sub>2</sub> O <sub>4</sub> :Cr <sup>3+</sup> thin films from colloidal nanoparticles of tunable size. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 4474-4485	7.1	9
23	Design and Realization of a Novel Optically Disordered Material: A Demonstration of a Mie Glass. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700025	8.1	7
22	Photonic structuring improves the colour purity of rare-earth nanophosphors. <i>Materials Horizons</i> , <b>2018</b> , 5, 661-667	14.4	7
21	Highly Efficient Transparent Nanophosphor Films for Tunable White-Light-Emitting Layered Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4219-4225	9.5	7
20	Enhanced Directional Light Extraction from Patterned Rare-Earth Phosphor Films. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001611	8.1	7

19	Symmetry analysis of the numerical instabilities in the transfer matrix method. <i>Journal of Optics (United Kingdom)</i> , <b>2013</b> , 15, 125719	1.7	5
18	Angular dependence of the intensity of light beams diffracted by colloidal crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 1394	1.7	4
17	Persistent luminescent nanoparticles: Challenges and opportunities for a shimmering future. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 080902	2.5	4
16	Dipole reorientation and local density of optical states influence the emission of light-emitting electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 22, 92-96	3.6	3
15	Finite Size Effects on Light Propagation throughout Random Media: Relation between Optical Properties and Scattering Event Statistics. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901196	8.1	3
14	Optical Responses of Localized and Extended Modes in a Mesoporous Layer on Plasmonic Array to Isopropanol Vapor. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5772-5779	3.8	2
13	Anomalous group velocity at the high energy range of a 3D photonic nanostructure. <i>Optics Express</i> , <b>2010</b> , 18, 15682-90	3.3	2
12	Analysis of artificial opals by scanning near field optical microscopy. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 083514	2.5	2
11	Plasmonic LED device <b>2014</b> ,		1
10	Anomalous light propagation, finite size-effects and losses in real 3D photonic nanostructures <b>2011</b> ,		1
9	Nanophotonics for current and future white light-emitting devices. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 200901	2.5	1
8	Highly Versatile Upconverting Oxyfluoride-Based Nanophosphor Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30051-30060	9.5	1
7	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> , <b>2021</b> , 13, 13882-13895	7.7	1
6	Transparent Phosphor Thin Films Based on Rare-Earth-Doped Garnets: Building Blocks for Versatile Persistent Luminescence Materials. <i>Advanced Photonics Research</i> , 2100367	1.9	1
5	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. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 223, 110951	6.4	0
4	Light Harvesting: Multidirectional Light-Harvesting Enhancement in Dye Solar Cells by Surface Patterning (Advanced Optical Materials 9/2014). <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 804-804	8.1	
3	Photonic Crystals: Interplay of Resonant Cavity Modes with Localized Surface Plasmons: Optical Absorption Properties of Bragg Stacks Integrating Gold Nanoparticles (Adv. Mater. 18/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 2024-2024	24	
2	Modeling the Optical Response of Three-Dimensional Disordered Structures Using theKorringaKohnBostoker Method. <i>Series in Optics and Optoelectronics</i> , <b>2012</b> , 39-54		

- 1 Interplay of Order and Disorder in the High-Energy Optical Response of Three-Dimensional Photonic Crystals. *Series in Optics and Optoelectronics*, **2012**, 301-322