

# Luis Cerdán

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,262  
citations

361296

20  
h-index

360920

35  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1633  
citing authors

#	ARTICLE	IF	CITATIONS
1	FRET-assisted laser emission in colloidal suspensions of dye-doped latex nanoparticles. <i>Nature Photonics</i> , 2012, 6, 621-626.	15.6	137
2	Chiral Organic Dyes Endowed with Circularly Polarized Laser Emission. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5287-5292.	1.5	116
3	Dye-Doped POSS Solutions: Random Nanomaterials for Laser Emission. <i>Advanced Materials</i> , 2009, 21, 4163-4166.	11.1	66
4	A borane laser. <i>Nature Communications</i> , 2015, 6, 5958.	5.8	63
5	First Highly Efficient and Photostable <i>E</i> and <i>C</i> Derivatives of 4,4-Difluoro-4-bora-3a,4a-diaza-s-indacene (BODIPY) as Dye Lasers in the Liquid Phase, Thin Films, and Solid-State Rods. <i>Chemistry - A European Journal</i> , 2014, 20, 2646-2653.		62
6	Amplified spontaneous emission and optical gain measurements from pyromethene 567 $\lambda/2$ doped polymer waveguides and quasi-waveguides. <i>Optics Express</i> , 2008, 16, 7023.	1.7	59
7	Carboxylates versus Fluorines: Boosting the Emission Properties of Commercial BODIPYs in Liquid and Solid Media. <i>Advanced Functional Materials</i> , 2013, 23, 4195-4205.	7.8	56
8	Unprecedented $\pi$ -Aggregated Dyes in Pure Organic Solvents. <i>Advanced Functional Materials</i> , 2016, 26, 2756-2769.	7.8	52
9	New perylene-doped polymeric thin films for efficient and long-lasting lasers. <i>Journal of Materials Chemistry</i> , 2012, 22, 8938.	6.7	48
10	Thermochromic Fluorescence from $B_{18}H_{20}(NC_5H_5)_2$ : An Inorganic-Organic Composite Luminescent Compound with an Unusual Molecular Geometry. <i>Advanced Optical Materials</i> , 2017, 5, 1600694.	3.6	45
11	Random lasing from sulforhodamine dye-doped polymer films with high surface roughness. <i>Applied Physics B: Lasers and Optics</i> , 2012, 108, 839-850.	1.1	40
12	Laser emission from mirrorless waveguides based on photosensitized polymers incorporating POSS. <i>Optics Express</i> , 2010, 18, 10247.	1.7	38
13	Circularly polarized laser emission in optically active organic dye solutions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22088-22093.	1.3	37
14	Synthetic Approach to Readily Accessible Benzofuran-Fused Borondipyromethenes as Red-Emitting Laser Dyes. <i>Journal of Organic Chemistry</i> , 2019, 84, 2523-2541.	1.7	31
15	<i>N</i> -BODIPYs Come into Play: Smart Dyes for Photonic Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 9383-9390.	1.7	30
16	First Resonance Energy Transfer and Laser Efficiency in Colloidal Suspensions of Dye-Doped Nanoparticles: Concentration Effects. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13107-13117.	1.5	24
17	Variable Stripe Length method: influence of stripe length choice on measured optical gain. <i>Optics Letters</i> , 2017, 42, 5258.	1.7	24
18	Random Lasing in Self-Assembled Dye-Doped Latex Nanoparticles: Packing Density Effects. <i>Advanced Functional Materials</i> , 2013, 23, 3916-3924.	7.8	22

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19	Straightforward Synthetic Protocol for the Introduction of Stabilized Câ€¦Nucleophiles in the BODIPY Core for Advanced Sensing and Photonic Applications. Chemistry - A European Journal, 2015, 21, 1755-1764.	1.7	22
20	On the characteristic lengths in the variable stripe length method for optical gain measurements. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1874.	0.9	21
21	Waveguided random lasing in red-emitting-dye-doped organicâ€“inorganic hybrid polymer thin films. Organic Electronics, 2012, 13, 1463-1469.	1.4	21
22	BOPHYs versus BODIPYs: A comparison of their performance as effective multi-function organic dyes. Dyes and Pigments, 2019, 170, 107662.	2.0	21
23	Singular laser behavior of hemicyanine dyes: unsurpassed efficiency and finely structured spectrum in the near-IR region. Laser Physics Letters, 2012, 9, 426-433.	0.6	20
24	Circularly polarized laser emission induced in isotropic and achiral dye systems. Scientific Reports, 2016, 6, 28740.	1.6	18
25	Waveguides and quasi-waveguides based on pyrromethene 597-doped poly(methyl methacrylate). Applied Physics B: Lasers and Optics, 2009, 97, 73-83.	1.1	17
26	Unveiling the role of upper excited electronic states in the photochemistry and laser performance of anti-B18H22. Journal of Materials Chemistry C, 2020, 8, 12806-12818.	2.7	16
27	Naturally Assembled Excimers in Xanthenes as Singular and Highly Efficient Laser Dyes in Liquid and Solid Media. Advanced Optical Materials, 2013, 1, 984-990.	3.6	15
28	Solid state dye lasers with scattering feedback. Progress in Quantum Electronics, 2013, 37, 348-382.	3.5	13
29	A Series of Ultra-Efficient Blue Borane Fluorophores. Inorganic Chemistry, 2020, 59, 17058-17070.	1.9	13
30	Multicolored Emission and Lasing in DCM-Adamantane Plasma Nanocomposite Optical Films. ACS Applied Materials & Interfaces, 2017, 9, 8948-8959.	4.0	12
31	Highâ€“Gain Longâ€“Lived Amplified Spontaneous Emission from Dyeâ€“Doped Fluorinated Polyimide Planar Waveguides. Macromolecular Chemistry and Physics, 2009, 210, 1624-1631.	1.1	11
32	Stereochemical and Steric Control of Photophysical and Chiroptical Properties in Bichromophoric Systems. Chemistry - A European Journal, 2018, 24, 3802-3815.	1.7	11
33	Tailoring the Molecular Skeleton of Azaâ€“BODIPYs to Design Photostable Redâ€“Lightâ€“Emitting Laser Dyes. ChemPhotoChem, 2019, 3, 75-85.	1.5	11
34	A simple experiment on slow light in ruby. American Journal of Physics, 2008, 76, 826-832.	0.3	9
35	Amplified spontaneous emission and optical gain measurements from pyrromethene 567 doped polymer waveguides and quasi-waveguides: erratum. Optics Express, 2008, 16, 7587.	1.7	9
36	Laser Efficiency Enhancement Due to Non-Resonant Feedback in Dye-Doped Hybrid Materials: Theoretical Insights and Experiment. IEEE Journal of Quantum Electronics, 2011, 47, 907-919.	1.0	8

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37	Amplified Spontaneous Emission Threshold Dependence on Determination Method in Dye-Doped Polymer and Lead Halide Perovskite Waveguides. <i>Molecules</i> , 2022, 27, 4261.	1.7	8
38	A FRET analysis of dye diffusion in core/shell polymer nanoparticles. <i>RSC Advances</i> , 2014, 4, 22115.	1.7	7
39	Simultaneous retrieval of optical gains, losses, and threshold in active waveguides. <i>Optics and Laser Technology</i> , 2020, 121, 105814.	2.2	7
40	Reconstruction of Nuclear Ensemble Approach Electronic Spectra Using Probabilistic Machine Learning. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3052-3064.	2.3	5
41	Focusing on charge-surface interfacial effects to enhance the laser properties of dye-doped nanoparticles. <i>Laser Physics Letters</i> , 2014, 11, 015901.	0.6	3
42	Emission properties of dye-doped cationic nanoparticles: size, surfactant and monomeric composition effects. <i>RSC Advances</i> , 2015, 5, 4454-4462.	1.7	3
43	Unveiling photophysical and photonic phenomena by means of optical gain measurements in waveguides and solutions. <i>Optics and Laser Technology</i> , 2021, 136, 106766.	2.2	3
44	PhotO, a plausible primeval pigment on Earth and rocky exoplanets. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16979-16987.	1.3	3
45	Ultrashort Pulse Generation in Nanolasers by Means of Lorenz-Haken Instabilities. <i>Annalen Der Physik</i> , 2021, 533, 2100122.	0.9	2
46	Variable Stripe Length method for optical gain measurements: Characteristic lengths. , 2011, , .		1
47	Taming the Photonic Behavior of Laser Dyes Through Specific and Dynamic Self-Assembly onto Cellulose Nanocrystals. <i>Advanced Photonics Research</i> , 2021, 2, 2000107.	1.7	1
48	State-of-the-Art Active Materials for Organic Lasers. , 2018, , 85-149.		1
49	Dye-doped fluorinated polyimides as efficient long-lived wave-guide lasers and amplifiers. , 2009, , .		0
50	Non-resonant feedback to enhance conventional lasing in advanced materials. , 2011, , .		0
51	Efficiency and photostability optimization in Perylene-doped polymer distributed feedback lasers and amplifiers. , 2011, , .		0
52	Photophysical and Lasing Properties of Rh6G Confined Polymeric Nanoparticles Suspension. , 2012, , .		0
53	Tailoring the Molecular Skeleton of Aza-BODIPYs to Design Photostable Red-Light-Emitting Laser Dyes. <i>ChemPhotoChem</i> , 2019, 3, 63-63.	1.5	0
54	Waveguided Random Laser Emission in Dye-Doped Hybrid Polymer Thin Films. , 2012, , .		0

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55	Interaction of <i>Anti-B<sub>18</sub>H<sub>22</sub></i> with Light. , 2018, , 115-136.		0
56	Using the Variable Pump Intensity method to measure optical gains and unveil photophysical and photonic phenomena in active waveguides. EPJ Web of Conferences, 2020, 243, 11002.	0.1	0
57	Quantitative comparison between different methods for the determination of the amplified spontaneous emission threshold in dye-polymer blends and perovskite thin films. Materials Today: Proceedings, 2022, , .	0.9	0