Luis Cerdn

List of Publications by Year in Descending Order

46 papers	982 citations	18 h-index	30 g-index
58 ext. papers	1,159 ext. citations	5.8 avg, IF	4.24 L-index

#	Paper	IF	Citations
46	Unveiling photophysical and photonic phenomena by means of optical gain measurements in waveguides and solutions. *Optics and Laser Technology*, **2021**, 136, 106766	4.2	2
45	Taming the Photonic Behavior of Laser Dyes Through Specific and Dynamic Self-Assembly onto Cellulose Nanocrystals. *Advanced Photonics Research*, **2021**, 2, 2000107	1.9	1
44	Ultrashort Pulse Generation in Nanolasers by Means of Lorenz–Haken Instabilities. *Annalen Der Physik*, **2021**, 533, 2100122	2.6	2
43	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	0.3	
42	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	7.1	6
41	A Series of Ultra-Efficient Blue Borane Fluorophores. *Inorganic Chemistry*, **2020**, 59, 17058-17070	5.1	4
40	Simultaneous retrieval of optical gains, losses, and threshold in active waveguides. *Optics and Laser Technology*, **2020**, 121, 105814	4.2	5
39	Synthetic Approach to Readily Accessible Benzofuran-Fused Borondipyrromethenes as Red-Emitting Laser Dyes. *Journal of Organic Chemistry*, **2019**, 84, 2523-2541	4.2	19
38	BOPHYs BODIPYs: A comparison of their performance as effective multi-function organic dyes. *Dyes and Pigments*, **2019**, 170, 107662-107662	4.6	14
37	Tailoring the Molecular Skeleton of Aza-BODIPYs to Design Photostable Red-Light-Emitting Laser Dyes. *ChemPhotoChem*, **2019**, 3, 63-63	3.3	
36	Tailoring the Molecular Skeleton of Aza-BODIPYs to Design Photostable Red-Light-Emitting Laser Dyes. *ChemPhotoChem*, **2019**, 3, 75-85	3.3	7
35	Stereochemical and Steric Control of Photophysical and Chiroptical Properties in Bichromophoric Systems. *Chemistry - A European Journal*, **2018**, 24, 3802-3815	4.8	10
34	State-of-the-Art Active Materials for Organic Lasers **2018**, 85-149		1
33	Thermochromic Fluorescence from B18H20(NC5H5)2: An Inorganic–Organic Composite Luminescent Compound with an Unusual Molecular Geometry. *Advanced Optical Materials*, **2017**, 5, 1600694	8.1	33
32	Chiral Organic Dyes Endowed with Circularly Polarized Laser Emission. *Journal of Physical Chemistry C*, **2017**, 121, 5287-5292	3.8	78
31	Multicolored Emission and Lasing in DCM-Adamantane Plasma Nanocomposite Optical Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 8948-8959	9.5	9
30	N-BODIPYs Come into Play: Smart Dyes for Photonic Materials. *Chemistry - A European Journal*, **2017**, 23, 9383-9390	4.8	19

29	Circularly polarized laser emission in optically active organic dye solutions. *Physical Chemistry Chemical Physics*, **2017**, 19, 22088-22093	3.6	25
28	Variable Stripe Length method: influence of stripe length choice on measured optical gain. *Optics Letters*, **2017**, 42, 5258-5261	3	14
27	Unprecedented J-Aggregated Dyes in Pure Organic Solvents. *Advanced Functional Materials*, **2016**, 26, 2756-2769	15.6	41
26	Circularly polarized laser emission induced in isotropic and achiral dye systems. *Scientific Reports*, **2016**, 6, 28740	4.9	13
25	Straightforward synthetic protocol for the introduction of stabilized C nucleophiles in the BODIPY core for advanced sensing and photonic applications. *Chemistry - A European Journal*, **2015**, 21, 1755-64	4.8	18
24	Emission properties of dye-doped cationic nanoparticles: size, surfactant and monomeric composition effects. *RSC Advances*, **2015**, 5, 4454-4462	3.7	3
23	A borane laser. *Nature Communications*, **2015**, 6, 5958	17.4	48
22	First highly efficient and photostable E and C 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. *Chemistry - A European Journal*, **2014**, 20, 2646-53	4.8	51
21	A FRET analysis of dye diffusion in core/shell polymer nanoparticles. *RSC Advances*, **2014**, 4, 22115	3.7	6
20	Förster Resonance Energy Transfer and Laser Efficiency in Colloidal Suspensions of Dye-Doped Nanoparticles: Concentration Effects. *Journal of Physical Chemistry C*, **2014**, 118, 13107-13117	3.8	21
19	Focusing on charge-surface interfacial effects to enhance the laser properties of dye-doped nanoparticles. *Laser Physics Letters*, **2014**, 11, 015901	1.5	3
18	Carboxylates versus Fluorines: Boosting the Emission Properties of Commercial BODIPYs in Liquid and Solid Media. *Advanced Functional Materials*, **2013**, 23, 4195-4205	15.6	48
17	Solid state dye lasers with scattering feedback. *Progress in Quantum Electronics*, **2013**, 37, 348-382	9.1	13
16	Naturally Assembled Excimers in Xanthenes as Singular and Highly Efficient Laser Dyes in Liquid and Solid Media. *Advanced Optical Materials*, **2013**, 1, 984-990	8.1	11
15	Random Lasing in Self-Assembled Dye-Doped Latex Nanoparticles: Packing Density Effects. *Advanced Functional Materials*, **2013**, 23, 3916-3924	15.6	18
14	Waveguided random lasing in red-emitting-dye-doped organic–inorganic hybrid polymer thin films. *Organic Electronics*, **2012**, 13, 1463-1469	3.5	18
13	Random lasing from sulforhodamine dye-doped polymer films with high surface roughness. *Applied Physics B: Lasers and Optics*, **2012**, 108, 839-850	1.9	34
12	New perylene-doped polymeric thin films for efficient and long-lasting lasers. *Journal of Materials Chemistry*, **2012**, 22, 8938		41

11	FRET-assisted laser emission in colloidal suspensions of dye-doped latex nanoparticles. *Nature Photonics*, **2012**, 6, 621-626	33.9	114
10	Singular laser behavior of hemicyanine dyes: unsurpassed efficiency and finely structured spectrum in the near-IR region. *Laser Physics Letters*, **2012**, 9, 426-433	1.5	17
9	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	2	8
8	Laser emission from mirrorless waveguides based on photosensitized polymers incorporating POSS. *Optics Express*, **2010**, 18, 10247-56	3.3	33
7	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	1.7	18
6	Dye-Doped POSS Solutions: Random Nanomaterials for Laser Emission. *Advanced Materials*, **2009**, 21, 4163-4166	24	61
5	High-Gain Long-Lived Amplified Spontaneous Emission from Dye-Doped Fluorinated Polyimide Planar Waveguides. *Macromolecular Chemistry and Physics*, **2009**, 210, 1624-1631	2.6	10
4	Waveguides and quasi-waveguides based on pyrromethene 597-doped poly(methyl methacrylate). *Applied Physics B: Lasers and Optics*, **2009**, 97, 73-83	1.9	15
3	Amplified spontaneous emission and optical gain measurements from pyrromethene 567--doped polymer waveguides and quasi-waveguides. *Optics Express*, **2008**, 16, 7023-36	3.3	54
2	Amplified spontaneous emission and optical gain measurements from pyrromethene 567 ??? doped polymer waveguides and quasi-waveguides: erratum. *Optics Express*, **2008**, 16, 7587	3.3	7
1	A simple experiment on slow light in ruby. *American Journal of Physics*, **2008**, 76, 826-832	0.7	9