

Luis Cerdn

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	FRET-assisted laser emission in colloidal suspensions of dye-doped latex nanoparticles. <i>Nature Photonics</i> , 2012 , 6, 621-626	33.9	114
45	Chiral Organic Dyes Endowed with Circularly Polarized Laser Emission. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5287-5292	3.8	78
44	Dye-Doped POSS Solutions: Random Nanomaterials for Laser Emission. <i>Advanced Materials</i> , 2009 , 21, 4163-4166	24	61
43	Amplified spontaneous emission and optical gain measurements from pyrromethene 567--doped polymer waveguides and quasi-waveguides. <i>Optics Express</i> , 2008 , 16, 7023-36	3.3	54
42	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. <i>Chemistry - A European Journal</i> , 2014 , 20, 2646-53	4.8	51
41	Carboxylates versus Fluorines: Boosting the Emission Properties of Commercial BODIPYs in Liquid and Solid Media. <i>Advanced Functional Materials</i> , 2013 , 23, 4195-4205	15.6	48
40	A borane laser. <i>Nature Communications</i> , 2015 , 6, 5958	17.4	48
39	Unprecedented J-Aggregated Dyes in Pure Organic Solvents. <i>Advanced Functional Materials</i> , 2016 , 26, 2756-2769	15.6	41
38	New perylene-doped polymeric thin films for efficient and long-lasting lasers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8938		41
37	Random lasing from sulforhodamine dye-doped polymer films with high surface roughness. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 839-850	1.9	34
36	Thermochromic Fluorescence from B18H20(NC5H5)2: An Inorganic/Organic Composite Luminescent Compound with an Unusual Molecular Geometry. <i>Advanced Optical Materials</i> , 2017 , 5, 1600694	8.1	33
35	Laser emission from mirrorless waveguides based on photosensitized polymers incorporating POSS. <i>Optics Express</i> , 2010 , 18, 10247-56	3.3	33
34	Circularly polarized laser emission in optically active organic dye solutions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22088-22093	3.6	25
33	Förster 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	3.8	21
32	N-BODIPYs Come into Play: Smart Dyes for Photonic Materials. <i>Chemistry - A European Journal</i> , 2017 , 23, 9383-9390	4.8	19
31	Synthetic Approach to Readily Accessible Benzofuran-Fused Borondipyrromethenes as Red-Emitting Laser Dyes. <i>Journal of Organic Chemistry</i> , 2019 , 84, 2523-2541	4.2	19
30	Straightforward synthetic protocol for the introduction of stabilized C nucleophiles in the BODIPY core for advanced sensing and photonic applications. <i>Chemistry - A European Journal</i> , 2015 , 21, 1755-64	4.8	18

29	Waveguided random lasing in red-emitting-dye-doped organic/inorganic hybrid polymer thin films. <i>Organic Electronics</i> , 2012 , 13, 1463-1469	3.5	18
28	Random Lasing in Self-Assembled Dye-Doped Latex Nanoparticles: Packing Density Effects. <i>Advanced Functional Materials</i> , 2013 , 23, 3916-3924	15.6	18
27	On the characteristic lengths in the variable stripe length method for optical gain measurements. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 1874	1.7	18
26	Singular laser behavior of hemicyanine dyes: unsurpassed efficiency and finely structured spectrum in the near-IR region. <i>Laser Physics Letters</i> , 2012 , 9, 426-433	1.5	17
25	Waveguides and quasi-waveguides based on pyrromethene 597-doped poly(methyl methacrylate). <i>Applied Physics B: Lasers and Optics</i> , 2009 , 97, 73-83	1.9	15
24	BOPHYs BODIPYs: A comparison of their performance as effective multi-function organic dyes. <i>Dyes and Pigments</i> , 2019 , 170, 107662-107662	4.6	14
23	Variable Stripe Length method: influence of stripe length choice on measured optical gain. <i>Optics Letters</i> , 2017 , 42, 5258-5261	3	14
22	Solid state dye lasers with scattering feedback. <i>Progress in Quantum Electronics</i> , 2013 , 37, 348-382	9.1	13
21	Circularly polarized laser emission induced in isotropic and achiral dye systems. <i>Scientific Reports</i> , 2016 , 6, 28740	4.9	13
20	Naturally Assembled Excimers in Xanthenes as Singular and Highly Efficient Laser Dyes in Liquid and Solid Media. <i>Advanced Optical Materials</i> , 2013 , 1, 984-990	8.1	11
19	Stereochemical and Steric Control of Photophysical and Chiroptical Properties in Bichromophoric Systems. <i>Chemistry - A European Journal</i> , 2018 , 24, 3802-3815	4.8	10
18	High-Gain Long-Lived Amplified Spontaneous Emission from Dye-Doped Fluorinated Polyimide Planar Waveguides. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1624-1631	2.6	10
17	Multicolored Emission and Lasing in DCM-Adamantane Plasma Nanocomposite Optical Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8948-8959	9.5	9
16	A simple experiment on slow light in ruby. <i>American Journal of Physics</i> , 2008 , 76, 826-832	0.7	9
15	Laser Efficiency Enhancement Due to Non-Resonant Feedback in Dye-Doped Hybrid Materials: Theoretical Insights and Experiment. <i>IEEE Journal of Quantum Electronics</i> , 2011 , 47, 907-919	2	8
14	Amplified spontaneous emission and optical gain measurements from pyrromethene 567 ??? doped polymer waveguides and quasi-waveguides: erratum. <i>Optics Express</i> , 2008 , 16, 7587	3.3	7
13	Tailoring the Molecular Skeleton of Aza-BODIPYs to Design Photostable Red-Light-Emitting Laser Dyes. <i>ChemPhotoChem</i> , 2019 , 3, 75-85	3.3	7
12	A FRET analysis of dye diffusion in core/shell polymer nanoparticles. <i>RSC Advances</i> , 2014 , 4, 22115	3.7	6

11	Unveiling the role of upper excited electronic states in the photochemistry and laser performance of anti-B18H22. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12806-12818	7.1	6
10	Simultaneous retrieval of optical gains, losses, and threshold in active waveguides. <i>Optics and Laser Technology</i> , 2020 , 121, 105814	4.2	5
9	A Series of Ultra-Efficient Blue Borane Fluorophores. <i>Inorganic Chemistry</i> , 2020 , 59, 17058-17070	5.1	4
8	Focusing on charge-surface interfacial effects to enhance the laser properties of dye-doped nanoparticles. <i>Laser Physics Letters</i> , 2014 , 11, 015901	1.5	3
7	Emission properties of dye-doped cationic nanoparticles: size, surfactant and monomeric composition effects. <i>RSC Advances</i> , 2015 , 5, 4454-4462	3.7	3
6	Unveiling photophysical and photonic phenomena by means of optical gain measurements in waveguides and solutions. <i>Optics and Laser Technology</i> , 2021 , 136, 106766	4.2	2
5	Ultrashort Pulse Generation in Nanolasers by Means of Lorenz-Blaken Instabilities. <i>Annalen Der Physik</i> , 2021 , 533, 2100122	2.6	2
4	State-of-the-Art Active Materials for Organic Lasers 2018 , 85-149		1
3	Taming the Photonic Behavior of Laser Dyes Through Specific and Dynamic Self-Assembly onto Cellulose Nanocrystals. <i>Advanced Photonics Research</i> , 2021 , 2, 2000107	1.9	1
2	Tailoring the Molecular Skeleton of Aza-BODIPYs to Design Photostable Red-Light-Emitting Laser Dyes. <i>ChemPhotoChem</i> , 2019 , 3, 63-63	3.3	
1	Using the Variable Pump Intensity method to measure optical gains and unveil photophysical and photonic phenomena in active waveguides. <i>EPJ Web of Conferences</i> , 2020 , 243, 11002	0.3	