

Juan Cabanillas-González

List of Publications by Year in descending order

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90
papers

2,394
citations

236833

25
h-index

233338

45
g-index

90
all docs

90
docs citations

90
times ranked

3245
citing authors

#	ARTICLE	IF	CITATIONS
1	Exciton migration in π -phase poly(9,9-dioctylfluorene). <i>Physical Review B</i> , 2003, 67, .	1.1	232
2	Transient Absorption Imaging of P3HT:PCBM Photovoltaic Blend: Evidence For Interfacial Charge Transfer State. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1099-1105.	2.1	171
3	Energy transfer dynamics in polyfluorene-based polymer blends. <i>Chemical Physics Letters</i> , 2001, 339, 331-336.	1.2	135
4	Pump-Probe Spectroscopy in Organic Semiconductors: Monitoring Fundamental Processes of Relevance in Optoelectronics. <i>Advanced Materials</i> , 2011, 23, 5468-5485.	11.1	131
5	Ag/Ag ₂ S Nanocrystals for High Sensitivity Near-Infrared Luminescence Nanothermometry. <i>Advanced Functional Materials</i> , 2017, 27, 1604629.	7.8	110
6	Ultrastable Supramolecular Self-Encapsulated Wide-Bandgap Conjugated Polymers for Large-Area and Flexible Electroluminescent Devices. <i>Advanced Materials</i> , 2019, 31, e1804811.	11.1	72
7	Photoinduced Transient Stark Spectroscopy in Organic Semiconductors: A Method for Charge Mobility Determination in the Picosecond Regime. <i>Physical Review Letters</i> , 2006, 96, 106601.	2.9	71
8	Glass transition temperatures of polymer thin films monitored by Raman scattering. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 721-728.	0.7	62
9	A Simple Approach to Design Proteins for the Sustainable Synthesis of Metal Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6214-6219.	7.2	61
10	On the role of aggregation effects in the performance of perylene-diimide based solar cells. <i>Organic Electronics</i> , 2014, 15, 1347-1361.	1.4	60
11	H-Shaped Oligofluorenes for Highly Air-Stable and Low-Threshold Non-Doped Deep Blue Lasing. <i>Advanced Materials</i> , 2014, 26, 2937-2942.	11.1	57
12	Divergent Adsorption-Dependent Luminescence of Amino-Functionalized Lanthanide Metal-Organic Frameworks for Highly Sensitive NO ₂ Sensors. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3362-3368.	2.1	50
13	Amplified Spontaneous Emission in Conjugated Polyrotaxanes Under Quasi-CW Pumping. <i>Advanced Materials</i> , 2013, 25, 4347-4351.	11.1	45
14	Toward Electrically Pumped Organic Lasers: A Review and Outlook on Material Developments and Resonator Architectures. <i>Advanced Photonics Research</i> , 2021, 2, 2000155.	1.7	42
15	Host Exciton Confinement for Enhanced Förster Transfer Blend Gain Media Yielding Highly Efficient Yellow-Green Lasers. <i>Advanced Functional Materials</i> , 2018, 28, 1705824.	7.8	39
16	A lanthanide MOF immobilized in PMMA transparent films as a selective fluorescence sensor for nitroaromatic explosive vapours. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3626-3630.	2.7	39
17	Subppm Amine Detection via Absorption and Luminescence Turn-On Caused by Ligand Exchange in Metal Organic Frameworks. <i>Analytical Chemistry</i> , 2019, 91, 15853-15859.	3.2	37
18	Model for Energy Transfer in Polymer/Dye Blends Based on Point-Surface Dipole Interaction. <i>Chemistry of Materials</i> , 2004, 16, 4705-4710.	3.2	36

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19	Luminescent MOF crystals embedded in PMMA/PDMS transparent films as effective NO ₂ gas sensors. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1048-1056.	1.7	34
20	Blue polymer optical fiber amplifiers based on conjugated fluorene oligomers. <i>Journal of Nanophotonics</i> , 2008, 2, 023504.	0.4	32
21	Hierarchical Uniform Supramolecular Conjugated Spherulites with Suppression of Defect Emission. <i>IScience</i> , 2019, 16, 399-409.	1.9	30
22	Solar cells from thermally treated polymer/dye blends with good spectral coverage. <i>Synthetic Metals</i> , 2003, 139, 637-641.	2.1	28
23	Photophysics of charge transfer in a polyfluorene/violanthrone blend. <i>Physical Review B</i> , 2005, 71, .	1.1	28
24	A planar organic near infrared light detector based on bulk heterojunction of a heteroquaterphenoquinone and poly[2-methoxy-5-(2-ethyl-hexyloxy)-1, 4-phenylene vinylene]. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	27
25	Flexible all-polymer waveguide for low threshold amplified spontaneous emission. <i>Scientific Reports</i> , 2016, 6, 34565.	1.6	26
26	Novel Fluorene-Based Copolymers Containing Branched 2-Methyl-butyl-Substituted Fluorene-co-benzothiadiazole Units for Remarkable Optical Gain Enhancement in Green-Yellow Emission Range. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11350-11358.	1.5	26
27	Preparation of Luminescent Metal-Organic Framework Films by Soft-Imprinting for 2,4-Dinitrotoluene Sensing. <i>Materials</i> , 2017, 10, 992.	1.3	25
28	Ultrafast optical gain switch in organic photonic devices. <i>Journal of Materials Chemistry</i> , 2010, 20, 519-523.	6.7	24
29	Amplified spontaneous emission in insulated polythiophenes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6591-6596.	2.7	24
30	Revealing the Impact of Heat Generation Using Nanographene-Based Light-Emitting Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28426-28434.	4.0	24
31	Origin of the Exclusive Ternary Electroluminescent Behavior of BN-Doped Nanographenes in Efficient Single-Component White Light-Emitting Electrochemical Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1906830.	7.8	23
32	Two-step field-induced singlet dissociation in a fluorene trimer. <i>Physical Review B</i> , 2005, 71, .	1.1	22
33	Flexible distributed feedback lasers based on nanoimprinted cellulose diacetate with efficient multiple wavelength lasing. <i>Npj Flexible Electronics</i> , 2019, 3, .	5.1	22
34	Coveged Hexa-peri-hexabenzobis-octacene: Molecular Conformations and Amplified Spontaneous Emission. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
35	Elemental sensitivity in soft x-ray imaging with a laser-plasma source and a color center detector. <i>Optics Letters</i> , 2007, 32, 2593.	1.7	20
36	Boosting the Photoluminescent Properties of Protein-Stabilized Gold Nanoclusters through Protein Engineering. <i>Nano Letters</i> , 2021, 21, 9347-9353.	4.5	20

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37	Molecular Packing Effects on the Optical Spectra and Triplet Dynamics in Oligofluorene Films. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11605-11609.	1.2	19
38	Efficient Optical Gain from Near-Infrared Polymer Lasers Based on Poly[9,9-dihexylheptadecanyl-2,7-carbazole-alt-5,5-(4,7-didialkylthienyl)-2,1,6-benzothiadiazole]. <i>Optical Materials</i> , 2018, 6, 1800263.	5.5	16
39	Bright, stable, and efficient red light-emitting electrochemical cells using contorted nanographenes. <i>Nanoscale Horizons</i> , 2020, 5, 473-480.	4.1	18
40	Engineered protein-based functional nanopatterned materials for bio-optical devices. <i>Nanoscale Advances</i> , 2019, 1, 3980-3991.	2.2	17
41	Organic position sensitive photodetectors based on lateral donor-acceptor concentration gradients. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	16
42	Electric field and charge distribution imaging with sub-micron resolution in an organic Thin-Film Transistor. <i>Organic Electronics</i> , 2012, 13, 66-70.	1.4	16
43	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9384.	1.3	15
44	A near infrared light emitting electrochemical cell with a 2.3%V turn-on voltage. <i>Scientific Reports</i> , 2019, 9, 228.	1.6	15
45	Subpicosecond photoinduced Stark spectroscopy in fullerene-based devices. <i>Physical Review B</i> , 2007, 75, .	1.1	14
46	Gain and ultrafast optical switching in PMMA optical fibers and films doped with luminescent conjugated polymers and oligomers. <i>Frontiers of Optoelectronics in China</i> , 2010, 3, 45-53.	0.2	14
47	Covalent modification of franckeite with maleimides: connecting molecules and van der Waals heterostructures. <i>Nanoscale Horizons</i> , 2021, 6, 551-558.	4.1	14
48	Tuning the Optical Properties of Au Nanoclusters by Designed Proteins. <i>Advanced Optical Materials</i> , 2022, 10, 2101332.	3.6	14
49	Ground State Host-Guest Interactions upon Effective Dispersion of Regioregular Poly(3-hexylthiophene) in Poly(9,9-dioctylfluorene- <i>alt</i> -benzothiadiazole). <i>Macromolecules</i> , 2015, 48, 8765-8772.	2.2	13
50	Reversible Protonation of Porphyrinic Metal-Organic Frameworks Embedded in Nanoporous Polydimethylsiloxane for Colorimetric Sensing. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001759.	1.9	13
51	Effect of aggregation on photocurrent generation in polyfluorene doped with violanthrone. <i>Synthetic Metals</i> , 2003, 137, 1471-1472.	2.1	12
52	A fluorescence gas sensor based on Förster Resonance Energy Transfer between polyfluorene and bromocresol green assembled in thin films. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 136-143.	4.0	12
53	Concurrent Optical Gain Optimization and Electrical Tuning in Novel Oligomer:Polymer Blends with Yellow-Green Laser Emission. <i>Advanced Science</i> , 2019, 6, 1801455.	5.6	12
54	Nuclearity Control for Efficient Thermally Activated Delayed Fluorescence in a Cu ^I Complex and its Halogen-Bridged Dimer. <i>Chemistry of Materials</i> , 2021, 33, 6383-6393.	3.2	12

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55	Amplified spontaneous emission in action: Sub-ppm optical detection of acid vapors in poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] thin films. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1354-1361.	4.0	11
56	Deep-blue Thiophene-Based Steric Oligomers as a Low-Threshold Laser Gain and Host Material. <i>Advanced Optical Materials</i> , 2020, 8, 1902163.	3.6	11
57	Towards rainbow photo/electro-luminescence in copper(<i>scp</i>) complexes with the versatile bridged bis-pyridyl ancillary ligand. <i>Dalton Transactions</i> , 2021, 50, 11049-11060.	1.6	11
58	Imaging the Electric Field Distribution in Organic Devices by Confocal Electroreflectance Microscopy. <i>Advanced Functional Materials</i> , 2009, 19, 1180-1185.	7.8	10
59	Europium complex-based thermochromic sensor for integration in plastic optical fibres. <i>Optical Materials</i> , 2012, 34, 1447-1450.	1.7	10
60	Early stages of interface formation of C60 on GaAs(100). <i>Surface Science</i> , 2007, 601, 4078-4081.	0.8	9
61	Spectroscopic Signature of Trap States in Assembled CdSe Nanocrystal Hybrid Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16259-16263.	1.5	9
62	Deep-red excimer emission from Ir doped organic light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3606.	2.7	8
63	Role of amorphous and aggregate phases on field-induced exciton dissociation in a conjugated polymer. <i>Physical Review B</i> , 2013, 87, .	1.1	8
64	Quantifying the efficiency of Förster-assisted optical gain in semiconducting polymer blends by excitation wavelength selective amplified spontaneous emission. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 2311-2317.	2.4	8
65	Combinatorial optimization of evaporated bilayer small molecule organic solar cells through orthogonal thickness gradients. <i>Organic Electronics</i> , 2018, 59, 288-292.	1.4	8
66	New insights into structure/optical waveguide behavior relationships in linear bisethynylbenzenes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6411-6418.	2.7	8
67	Cove-Edged Hexa-peri-hexabenzobis-octacene: Molecular Conformations and Amplified Spontaneous Emission. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
68	Kinetics of interfacial charges in hybrid GaAs/oligothiophene semiconducting heterojunctions. <i>Applied Physics Letters</i> , 2007, 91, 122113.	1.5	7
69	Evidence of photoinduced charge transfer in C60/GaAs(100) bilayers by pump-probe measurements. <i>Chemical Physics Letters</i> , 2008, 466, 65-67.	1.2	7
70	Improving the layer morphology of solution-processed perylene diimide organic solar cells with the use of a polymeric interlayer. <i>Organic Photonics and Photovoltaics</i> , 2013, 1, .	1.3	7
71	Impact of molecular conformation on triplet-fusion induced photon energy up-conversion in the absence of exothermic triplet energy transfer. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3634-3643.	2.7	7
72	Self-Assembled Amphiphilic Molecules for Highly Efficient Photocatalytic Hydrogen Evolution from Water. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6971-6978.	1.5	7

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73	Steric Poly(diarylfluorene- <i>i>co</i>/i>-benzothiadiazole) for Efficient Amplified Spontaneous Emission and Polymer Light-Emitting Diodes: Benefit from Preventing Interchain Aggregation and Polaron Formation. <i>Advanced Optical Materials</i>, 2020, 8, 1901616.</i>	3.6	7
74	Organic Semiconductor Micro/Nanocrystals for Laser Applications. <i>Molecules</i> , 2021, 26, 958.	1.7	7
75	Assembly-Induced Bright-Light Emission from Solution-Processed Platinum(II) Inorganic Polymers. <i>ACS Omega</i> , 2019, 4, 10192-10204.	1.6	6
76	Matrix Encapsulation of Solution-Processed Thiophene-Based Fluorophores for Enhanced Red and Green Amplified Spontaneous Emission. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900493.	1.2	6
77	Combined spectroscopic characterization of electron transfer at hybrid CuPcF16/GaAs semiconductor interfaces. <i>Nanotechnology</i> , 2008, 19, 424010.	1.3	5
78	Fluorene-based rib waveguides with optimized geometry for long-term amplified spontaneous emission stability. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1040-1045.	2.4	5
79	Origin of Intramolecular Low-Threshold Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2021, 9, 2001956.	3.6	5
80	Effect of Structure and Interlayer Diffusion in Organic Position Sensitive Photodetectors Based on Complementary Wedge Donor/Acceptor Layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 5148-5153.	0.9	4
81	Simultaneously Enhancing Photoluminescence Quantum Efficiency and Optical Gain of Polyfluorene via Backbone Intercalation of 2,5-Dimethyl-1,4-Phenylene. <i>Advanced Optical Materials</i> , 2020, 8, 2000187.	3.6	4
82	Highly pH-responsive sensor based on amplified spontaneous emission coupled to colorimetry. <i>Scientific Reports</i> , 2017, 7, 46265.	1.6	3
83	Synthesis and characterization of two fluorescent isophthalate rosamines: From solution to immobilization in solid substrates. <i>Dyes and Pigments</i> , 2018, 157, 405-414.	2.0	3
84	Facile and Controllable Fabrication of High-Performance Methylammonium Lead Triiodide Films Using Lead Acetate Precursor for Low-Threshold Amplified Spontaneous Emission and Distributed-Feedback Lasers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900176.	1.2	3
85	A Simple Approach to Design Proteins for the Sustainable Synthesis of Metal Nanoclusters. <i>Angewandte Chemie</i> , 2019, 131, 6280-6285.	1.6	3
86	Oligofluorene derivative in a host-guest system with a red-emitter: molecular packing effect on the host bimolecular recombination and guest ASE threshold reduction. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2
87	Entropy-Driven Heterocomplexation of Conjugated Polymers in Highly Diluted Solutions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16596-16601.	1.5	2
88	Pump-push-probe transient spectroscopy of isolated conjugated oligomers. <i>Springer Series in Chemical Physics</i> , 2009, , 463-465.	0.2	2
89	Ultrafast field assisted exciton dissociation in oligofluorenes. <i>Synthetic Metals</i> , 2005, 152, 113-116.	2.1	1
90	Multidimensional Ln-Aminophthalate Photoluminescent Coordination Polymers. <i>Materials</i> , 2021, 14, 1786.	1.3	1