Juan Luis Delgado

List of Publications by Citations

86 papers	3,568 citations	33 h-index	58 g-index
102 ext. papers	3,772 ext. citations	7.8 avg, IF	5.36 L-index

#	Paper	IF	Citations
86	Organic photovoltaics: a chemical approach. *Chemical Communications*, **2010**, 46, 4853-65	5.8	336
85	The nano-forms of carbon. *Journal of Materials Chemistry*, **2008**, 18, 1417		198
84	Infrared photocurrent spectral response from plastic solar cell with low-band-gap polyfluorene and fullerene derivative. *Applied Physics Letters*, **2004**, 85, 5081-5083	3.4	193
83	Synthesis, photochemistry, and electrochemistry of single-wall carbon nanotubes with pendent pyridyl groups and of their metal complexes with zinc porphyrin. Comparison with pyridyl-bearing fullerenes. *Journal of the American Chemical Society*, **2006**, 128, 6626-35	16.4	189
82	Efficient electron transfer and sensitizer regeneration in stable pi-extended tetrathiafulvalene-sensitized solar cells. *Journal of the American Chemical Society*, **2010**, 132, 5164-9	16.4	180
81	Microwave-assisted sidewall functionalization of single-wall carbon nanotubes by Diels-Alder cycloaddition. *Chemical Communications*, **2004**, 1734-5	5.8	131
80	Organic and perovskite solar cells: Working principles, materials and interfaces. *Journal of Colloid and Interface Science*, **2017**, 488, 373-389	9.3	121
79	Sidewall Functionalization of Single-Walled Carbon Nanotubes with Nitrile Imines. Electron Transfer from the Substituent to the Carbon Nanotube. *Journal of Physical Chemistry B*, **2004**, 108, 12691-12697	3.4	110
78	Organic Charge Carriers for Perovskite Solar Cells. *ChemSusChem*, **2015**, 8, 3012-28	8.3	101
77	Correlation of delocalization indices and current-density maps in polycyclic aromatic hydrocarbons. *Chemistry - A European Journal*, **2008**, 14, 3093-9	4.8	95
76	Understanding the Outstanding Power Conversion Efficiency of Perovskite-Based Solar Cells. *Angewandte Chemie - International Edition*, **2015**, 54, 9757-9	16.4	93
75	Design, Synthesis and Properties of Low Band Gap Polyfluorenes for Photovoltaic Devices. *Synthetic Metals*, **2005**, 154, 53-56	3.6	87
74	Modified Fullerenes for Efficient Electron Transport Layer-Free Perovskite/Fullerene Blend-Based Solar Cells. *ChemSusChem*, **2017**, 10, 2023-2029	8.3	73
73	Fullerenes: the stars of photovoltaics. *Sustainable Energy and Fuels*, **2018**, 2, 2480-2493	5.8	63
72	Fullerene dimers (C60/C70) for energy harvesting. *Chemistry - A European Journal*, **2009**, 15, 13474-82	4.8	62
71	A "cyanine-cyanine" salt exhibiting photovoltaic properties. *Organic Letters*, **2009**, 11, 4806-9	6.2	60
70	Carbon Nanoparticles in High-Performance Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702719	21.8	59

69	The first synthesis of a conjugated hybrid of C60 fullerene and a single-wall carbon nanotube. *Carbon*, **2007**, 45, 2250-2252	10.4	59
68	Influence of nanoscale phase separation on geminate versus bimolecular recombination in P3HT:fullerene blend films. *Energy and Environmental Science*, **2010**, 3, 971	35.4	56
67	Electron Transport Layer-Free Solar Cells Based on Perovskite-Fullerene Blend Films with Enhanced Performance and Stability. *ChemSusChem*, **2016**, 9, 2679-2685	8.3	54
66	Pyrazolinofullerenes: a less known type of highly versatile fullerene derivatives. *Chemical Society Reviews*, **2011**, 40, 5232-41	58.5	53
65	Efficient Regular Perovskite Solar Cells Based on Pristine [70]Fullerene as Electron-Selective Contact. *ChemSusChem*, **2016**, 9, 1263-70	8.3	51
64	Synthesis and photochemistry of soluble, pentyl ester-modified single wall carbon nanotube. *Chemical Physics Letters*, **2004**, 386, 342-345	2.5	48
63	Liquid-crystalline [60]fullerene-TTF dyads. *Organic Letters*, **2005**, 7, 383-6	6.2	47
62	On the thermal stability of [60]fullerene cycloadducts: retro-cycloaddition reaction of 2-pyrazolino[4,5:1,2][60]fullerenes. *Journal of Organic Chemistry*, **2008**, 73, 3184-8	4.2	45
61	Synthesis and properties of pyrazolino[60]fullerene-donor systems. *Tetrahedron*, **2002**, 58, 5821-5826	2.4	45
60	The isoindazole nucleus as a donor in fullerene-based dyads. Evidence for electron transfer. *Journal of Organic Chemistry*, **2004**, 69, 2661-8	4.2	45
59	Poly(ethylene glycol)-[60]Fullerene-Based Materials for Perovskite Solar Cells with Improved Moisture Resistance and Reduced Hysteresis. *ChemSusChem*, **2018**, 11, 1032-1039	8.3	43
58	Supramolecular click chemistry for the self-assembly of a stable Zn(II)-porphyrin-C60 conjugate. *Chemical Communications*, **2005**, 5736-8	5.8	41
57	Tuning the electronic properties of nonplanar exTTF-based push-pull chromophores by aryl substitution. *Journal of Organic Chemistry*, **2012**, 77, 10707-17	4.2	40
56	Donor-acceptors containing the 10-(1,3-dithiol-2-ylidene)anthracene unit for dye-sensitized solar cells. *Chemistry - A European Journal*, **2012**, 18, 11621-9	4.8	38
55	Subphthalocyanine-polymethine cyanine conjugate: an all organic panchromatic light harvester that reveals charge transfer. *Journal of Materials Chemistry*, **2011**, 21, 15914		36
54	Efficient utilization of higher-lying excited states to trigger charge-transfer events. *Chemistry - A European Journal*, **2010**, 16, 9638-45	4.8	35
53	Dopant-Free Hole-Transporting Polymers for Efficient and Stable Perovskite Solar Cells. *Macromolecules*, **2019**, 52, 2243-2254	5.5	33
52	Efficient light harvesting anionic heptamethine cyanine [60] and [70]fullerene hybrids. *Energy and Environmental Science*, **2011**, 4, 679	35.4	31

51	Physicochemical Phenomena and Application in Solar Cells of Perovskite:Fullerene Films. *Journal of Physical Chemistry Letters*, **2018**, 9, 2893-2902	6.4	29
50	Mediating Reductive Charge Shift Reactions in Electron Transport Chains. *Journal of the American Chemical Society*, **2017**, 139, 17474-17483	16.4	28
49	ExTTF-based dyes absorbing over the whole visible spectrum. *Organic Letters*, **2011**, 13, 604-7	6.2	28
48	Electronic Structure of Fullerene Heterodimer in Bulk-Heterojunction Blends. *Advanced Energy Materials*, **2014**, 4, 1301517	21.8	25
47	Powering reductive charge shift reactions□nking fullerenes of different electron acceptor strength to secure an energy gradient. *Chemical Science*, **2011**, 2, 1677	9.4	25
46	Competitive retro-cycloaddition reaction in fullerene dimers connected through pyrrolidinopyrazolino rings. *Journal of Organic Chemistry*, **2009**, 74, 8174-80	4.2	25
45	Photoinduced C70 radical anions in polymer:fullerene blends. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 128-130	2.5	22
44	Oxidation of 3-alkyl-substituted 2-pyrazolino[60]fullerenes: a new formyl-containing building block for fullerene chemistry. *Organic Letters*, **2008**, 10, 3705-8	6.2	20
43	Large photoactive supramolecular ensembles prepared from C60□pyridine substrates and multi-Zn(II)□porphyrin receptors. *New Journal of Chemistry*, **2008**, 32, 159-165	3.6	20
42	The importance of the linking bridge in donor□C60 electroactive dyads. *New Journal of Chemistry*, **2002**, 26, 76-80	3.6	20
41	Fullerene-Based Materials as Hole-Transporting/Electron-Blocking Layers: Applications in Perovskite Solar Cells. *Chemistry - A European Journal*, **2018**, 24, 8524-8529	4.8	19
40	Donor-Acceptor Hybrids for Organic Electronics. *Israel Journal of Chemistry*, **2014**, 54, 429-439	3.4	19
39	A ready access to unprecedented N-anilinopyrazolino[60]fullerenes. *Tetrahedron Letters*, **2004**, 45, 1651-1654		17
38	Co-Solvent Effect in the Processing of the Perovskite:Fullerene Blend Films for Electron Transport Layer-Free Solar Cells. *Journal of Physical Chemistry C*, **2018**, 122, 2512-2520	3.8	16
37	Efficient light harvesters based on the 10-(1,3-dithiol-2-ylidene)anthracene core. *Organic Letters*, **2013**, 15, 4166-9	6.2	16
36	Hindered Amine Light Stabilizers Increase the Stability of Methylammonium Lead Iodide Perovskite Against Light and Oxygen. *ChemSusChem*, **2017**, 10, 3760-3764	8.3	15
35	Unravelling fullerene□erovskite interactions introduces advanced blend films for performance-improved solar cells. *Sustainable Energy and Fuels*, **2019**, 3, 2779-2787	5.8	14
34	Pyrrolidino [60] and [70]fullerene homo- and heterodimers as electron acceptors for OPV. *New Journal of Chemistry*, **2015**, 39, 1477-1482	3.6	13

33	Mass spectrometry studies of the retro-cycloaddition reaction of pyrrolidino and 2-pyrazolinofullerene derivatives under negative ESI conditions. *Journal of the American Society for Mass Spectrometry*, **2011**, 22, 557-67	3.5	13
32	Photoinduced electron transfer in a fullerene–oligophenylenevinylene dyad. *New Journal of Chemistry*, **2009**, 33, 2174	3.6	13
31	Synthesis and photophysical properties of a [60]fullerene compound with dimethylaniline and ferrocene connected through a pyrazolino group: a study by laser flash photolysis. *Physical Chemistry Chemical Physics*, **2006**, 8, 4104-11	3.6	13
30	Synthesis and Photoinduced Intermolecular Electronic Acceptor Ability of Pyrazolo[60]fullerenes vs Tetrathiafulvalene. *Bulletin of the Chemical Society of Japan*, **2005**, 78, 1500-1507	5.1	13
29	Synthesis and optoelectronic properties of chemically modified bi-fluorenylidenes. *Journal of Materials Chemistry C*, **2016**, 4, 3798-3808	7.1	12
28	Efficient and stable perovskite solar cells based on perfluorinated polymers. *Polymer Chemistry*, **2019**, 10, 5726-5736	4.9	12
27	Through-space communication in a TTF–C60–TTF triad. *New Journal of Chemistry*, **2007**, 31, 230-236	3.6	12
26	Isolated rigid rod behavior of functionalized single-wall carbon nanotubes in solution determined via small-angle neutron scattering. *Physical Review B*, **2008**, 78,	3.3	11
25	Modular construction and hierarchical gelation of organooxotin nanoclusters derived from simple building blocks. *Chemical Communications*, **2007**, 4943-5	5.8	11
24	Organic Polymers as Additives in Perovskite Solar Cells. *Macromolecules*, **2021**, 54, 5451-5463	5.5	11
23	Perovskite Solar Cells Based on Oligotriarylamine Hexaarylbenzene as Hole-Transporting Materials. *Organic Letters*, **2019**, 21, 3261-3264	6.2	10
22	Charge photogeneration in donor/acceptor organic solar cells. *Journal of Photonics for Energy*, **2012**, 2, 021001	1.2	10
21	Buckyballs. *Topics in Current Chemistry*, **2014**, 350, 1-64		9
20	The structure of p-nitrophenylhydrazones of aldehydes: the case of the p-nitrophenylhydrazone of 2-diethylamino-5-methoxy-2H-indazole-3-carboxaldehyde. *Journal of Molecular Structure*, **2004**, 699, 17-21	3.4	9
19	Relation between charge transfer and solvent polarity in fullerene derivatives: NMR studies. *Journal of Materials Chemistry*, **2002**, 12, 2130-2136		9
18	Perowskit-Solarzellen: dem hohen Wirkungsgrad auf der Spur. *Angewandte Chemie*, **2015**, 127, 9893-9895	3.6	7
17	Doping strategies of organic n-type materials in perovskite solar cells: a chemical perspective. *Sustainable Energy and Fuels*, **2020**, 4, 3264-3281	5.8	6
16	Synthesis of fullerene-substituted oligo(phenylenebutadiyndiyl). *Tetrahedron Letters*, **2006**, 47, 3715-3718	2.2	6

15	A partially-planarised hole-transporting quart-p-phenylene for perovskite solar cells. *Journal of Materials Chemistry C*, **2019**, 7, 4332-4335	7.1	5
14	Coordinating Electron Transport Chains to an Electron Donor. *Organic Letters*, **2015**, 17, 5056-9	6.2	4
13	Heptamethine Cyanine Dyes in the Design of Photoactive Carbon Nanomaterials. *ACS Omega*, **2017**, 2, 9164-9170	3.9	4
12	Dynamics of functionalized single wall carbon nanotubes in solution studied by incoherent neutron scattering experiments. *Journal of Physics Condensed Matter*, **2008**, 20, 104208	1.8	4
11	Naphthalene Diimide-Based Molecules for Efficient and Stable Perovskite Solar Cells. *European Journal of Organic Chemistry*, **2020**, 2020, 5329-5339	3.2	4
10	Dendritic-Like Molecules Built on a Pillar[5]arene Core as Hole Transporting Materials for Perovskite Solar Cells. *Chemistry - A European Journal*, **2021**, 27, 8110-8117	4.8	4
9	Charge Transfer: Electronic Structure of Fullerene Heterodimer in Bulk-Heterojunction Blends (Adv. Energy Mater. 7/2014). *Advanced Energy Materials*, **2014**, 4,	21.8	2
8	Carbon Nanotubes and Related Structures **2010**, 189-227		2
7	Reactions and Retro-reactions of Fullerenes. *World Scientific Series on Carbon Nanoscience*, **2011**, 325-373	3.5	1
6	Efficient and Stable Perovskite Solar Cells based on Nitrogen-Doped Carbon Nanodots. *Energy Technology*,2101059	3.5	0
5	Light-Harvesting Materials for Organic Electronics **2015**, 311-341		
4	Mimicking Photosynthesis with Fullerene-Based Systems **2011**, 429-450		
3	Chalcogen-substituted PCBM derivatives as ternary components in PM6:Y6 solar cells. *Materials Advances*, **2022**, 3, 1071-1078	3.3	
2	Dendritic-Like Molecules Built on a Pillar[5]arene Core as Hole Transporting Materials for Perovskite Solar Cells. *Chemistry - A European Journal*, **2021**, 27, 8061	4.8	
1	Triarylamine Enriched Organostannoxane Drums: Synthesis, Optoelectrochemical Properties, Association Studies, and Gelation Behavior.. *Inorganic Chemistry*, **2022**, 61, 4046-4055	5.1	