

# Juan Luis Delgado

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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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.

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	Chalcogen-substituted PCBM derivatives as ternary components in PM6:Y6 solar cells. <i>Materials Advances</i> , <b>2022</b> , 3, 1071-1078	3.3	
85	Triarylamine Enriched Organostannoxane Drums: Synthesis, Optoelectrochemical Properties, Association Studies, and Gelation Behavior.. <i>Inorganic Chemistry</i> , <b>2022</b> , 61, 4046-4055	5.1	
84	Dendritic-Like Molecules Built on a Pillar[5]arene Core as Hole Transporting Materials for Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8110-8117	4.8	4
83	Dendritic-Like Molecules Built on a Pillar[5]arene Core as Hole Transporting Materials for Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8061	4.8	
82	Organic Polymers as Additives in Perovskite Solar Cells. <i>Macromolecules</i> , <b>2021</b> , 54, 5451-5463	5.5	11
81	Doping strategies of organic n-type materials in perovskite solar cells: a chemical perspective. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 3264-3281	5.8	6
80	Naphthalene Diimide-Based Molecules for Efficient and Stable Perovskite Solar Cells. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 5329-5339	3.2	4
79	Perovskite Solar Cells Based on Oligotriarylamine Hexaarylbenzene as Hole-Transporting Materials. <i>Organic Letters</i> , <b>2019</b> , 21, 3261-3264	6.2	10
78	Dopant-Free Hole-Transporting Polymers for Efficient and Stable Perovskite Solar Cells. <i>Macromolecules</i> , <b>2019</b> , 52, 2243-2254	5.5	33
77	A partially-planarised hole-transporting quart-p-phenylene for perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4332-4335	7.1	5
76	Efficient and stable perovskite solar cells based on perfluorinated polymers. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 5726-5736	4.9	12
75	Unravelling fullerene-perovskite interactions introduces advanced blend films for performance-improved solar cells. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2779-2787	5.8	14
74	Co-Solvent Effect in the Processing of the Perovskite:Fullerene Blend Films for Electron Transport Layer-Free Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 2512-2520	3.8	16
73	Carbon Nanoparticles in High-Performance Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702719	21.8	59
72	Poly(ethylene glycol)-[60]Fullerene-Based Materials for Perovskite Solar Cells with Improved Moisture Resistance and Reduced Hysteresis. <i>ChemSusChem</i> , <b>2018</b> , 11, 1032-1039	8.3	43
71	Fullerene-Based Materials as Hole-Transporting/Electron-Blocking Layers: Applications in Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 8524-8529	4.8	19
70	Physicochemical Phenomena and Application in Solar Cells of Perovskite:Fullerene Films. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2893-2902	6.4	29

69	Fullerenes: the stars of photovoltaics. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2480-2493	5.8	63
68	Modified Fullerenes for Efficient Electron Transport Layer-Free Perovskite/Fullerene Blend-Based Solar Cells. <i>ChemSusChem</i> , <b>2017</b> , 10, 2023-2029	8.3	73
67	Mediating Reductive Charge Shift Reactions in Electron Transport Chains. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17474-17483	16.4	28
66	Hindered Amine Light Stabilizers Increase the Stability of Methylammonium Lead Iodide Perovskite Against Light and Oxygen. <i>ChemSusChem</i> , <b>2017</b> , 10, 3760-3764	8.3	15
65	Organic and perovskite solar cells: Working principles, materials and interfaces. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 488, 373-389	9.3	121
64	Heptamethine Cyanine Dyes in the Design of Photoactive Carbon Nanomaterials. <i>ACS Omega</i> , <b>2017</b> , 2, 9164-9170	3.9	4
63	Electron Transport Layer-Free Solar Cells Based on Perovskite-Fullerene Blend Films with Enhanced Performance and Stability. <i>ChemSusChem</i> , <b>2016</b> , 9, 2679-2685	8.3	54
62	Efficient Regular Perovskite Solar Cells Based on Pristine [70]Fullerene as Electron-Selective Contact. <i>ChemSusChem</i> , <b>2016</b> , 9, 1263-70	8.3	51
61	Synthesis and optoelectronic properties of chemically modified bi-fluorenylidenes. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3798-3808	7.1	12
60	Coordinating Electron Transport Chains to an Electron Donor. <i>Organic Letters</i> , <b>2015</b> , 17, 5056-9	6.2	4
59	Pyrrolidino [60] and [70]fullerene homo- and heterodimers as electron acceptors for OPV. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 1477-1482	3.6	13
58	Organic Charge Carriers for Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2015</b> , 8, 3012-28	8.3	101
57	Perowskit-Solarzellen: dem hohen Wirkungsgrad auf der Spur. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9893-9895	5.6	7
56	Understanding the Outstanding Power Conversion Efficiency of Perovskite-Based Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9757-9	16.4	93
55	Light-Harvesting Materials for Organic Electronics <b>2015</b> , 311-341		
54	Donor-Acceptor Hybrids for Organic Electronics. <i>Israel Journal of Chemistry</i> , <b>2014</b> , 54, 429-439	3.4	19
53	Charge Transfer: Electronic Structure of Fullerene Heterodimer in Bulk-Heterojunction Blends (Adv. Energy Mater. 7/2014). <i>Advanced Energy Materials</i> , <b>2014</b> , 4,	21.8	2
52	Electronic Structure of Fullerene Heterodimer in Bulk-Heterojunction Blends. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301517	21.8	25

51	Buckyballs. <i>Topics in Current Chemistry</i> , <b>2014</b> , 350, 1-64		9
50	Efficient light harvesters based on the 10-(1,3-dithiol-2-ylidene)anthracene core. <i>Organic Letters</i> , <b>2013</b> , 15, 4166-9	6.2	16
49	Tuning the electronic properties of nonplanar exTTF-based push-pull chromophores by aryl substitution. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 10707-17	4.2	40
48	Charge photogeneration in donor/acceptor organic solar cells. <i>Journal of Photonics for Energy</i> , <b>2012</b> , 2, 021001	1.2	10
47	Donor-Acceptors containing the 10-(1,3-dithiol-2-ylidene)anthracene unit for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 11621-9	4.8	38
46	Pyrazolinofullerenes: a less known type of highly versatile fullerene derivatives. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 5232-41	58.5	53
45	Mimicking Photosynthesis with Fullerene-Based Systems <b>2011</b> , 429-450		
44	Powering reductive charge shift reactions linking fullerenes of different electron acceptor strength to secure an energy gradient. <i>Chemical Science</i> , <b>2011</b> , 2, 1677	9.4	25
43	Efficient light harvesting anionic heptamethine cyanine[60] and [70]fullerene hybrids. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 679	35.4	31
42	Subphthalocyanine-polymethine cyanine conjugate: an all organic panchromatic light harvester that reveals charge transfer. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15914		36
41	Photoinduced C70 radical anions in polymer:fullerene blends. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 128-130	2.5	22
40	Mass spectrometry studies of the retro-cycloaddition reaction of pyrrolidino and 2-pyrazolinofullerene derivatives under negative ESI conditions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 557-67	3.5	13
39	ExTTF-based dyes absorbing over the whole visible spectrum. <i>Organic Letters</i> , <b>2011</b> , 13, 604-7	6.2	28
38	Reactions and Retro-reactions of Fullerenes. <i>World Scientific Series on Carbon Nanoscience</i> , <b>2011</b> , 325-373	35.5	1
37	Influence of nanoscale phase separation on geminate versus bimolecular recombination in P3HT:fullerene blend films. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 971	35.4	56
36	Organic photovoltaics: a chemical approach. <i>Chemical Communications</i> , <b>2010</b> , 46, 4853-65	5.8	336
35	Efficient electron transfer and sensitizer regeneration in stable pi-extended tetrathiafulvalene-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5164-9	16.4	180
34	Carbon Nanotubes and Related Structures <b>2010</b> , 189-227		2

33	Efficient utilization of higher-lying excited states to trigger charge-transfer events. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 9638-45	4.8	35
32	Fullerene dimers (C60/C70) for energy harvesting. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 13474-82	4.8	62
31	A "cyanine-cyanine" salt exhibiting photovoltaic properties. <i>Organic Letters</i> , <b>2009</b> , 11, 4806-9	6.2	60
30	Photoinduced electron transfer in a fullerene-oligophenylenevinylene dyad. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 2174	3.6	13
29	Competitive retro-cycloaddition reaction in fullerene dimers connected through pyrrolidinopyrazolino rings. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 8174-80	4.2	25
28	On the thermal stability of [60]fullerene cycloadducts: retro-cycloaddition reaction of 2-pyrazolino[4,5:1,2][60]fullerenes. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 3184-8	4.2	45
27	Oxidation of 3-alkyl-substituted 2-pyrazolino[60]fullerenes: a new formyl-containing building block for fullerene chemistry. <i>Organic Letters</i> , <b>2008</b> , 10, 3705-8	6.2	20
26	The nano-forms of carbon. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1417		198
25	Large photoactive supramolecular ensembles prepared from C60-pyridine substrates and multi-Zn(II)-porphyrin receptors. <i>New Journal of Chemistry</i> , <b>2008</b> , 32, 159-165	3.6	20
24	Isolated rigid rod behavior of functionalized single-wall carbon nanotubes in solution determined via small-angle neutron scattering. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	11
23	Dynamics of functionalized single wall carbon nanotubes in solution studied by incoherent neutron scattering experiments. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 104208	1.8	4
22	Correlation of delocalization indices and current-density maps in polycyclic aromatic hydrocarbons. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 3093-9	4.8	95
21	Modular construction and hierarchical gelation of organooxotin nanoclusters derived from simple building blocks. <i>Chemical Communications</i> , <b>2007</b> , 4943-5	5.8	11
20	Through-space communication in a TTF-C60-TTF triad. <i>New Journal of Chemistry</i> , <b>2007</b> , 31, 230-236	3.6	12
19	The first synthesis of a conjugated hybrid of C60-fullerene and a single-wall carbon nanotube. <i>Carbon</i> , <b>2007</b> , 45, 2250-2252	10.4	59
18	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. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6626-35	16.4	189
17	Synthesis and photophysical properties of a [60]fullerene compound with dimethylaniline and ferrocene connected through a pyrazolino group: a study by laser flash photolysis. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 4104-11	3.6	13
16	Synthesis of fullerene-substituted oligo(phenylenebutadiyndiyl). <i>Tetrahedron Letters</i> , <b>2006</b> , 47, 3715-3718		6

15	Supramolecular click chemistry for the self-assembly of a stable Zn(II)-porphyrin-C60 conjugate. <i>Chemical Communications</i> , <b>2005</b> , 5736-8	5.8	41
14	Liquid-crystalline [60]fullerene-TTF dyads. <i>Organic Letters</i> , <b>2005</b> , 7, 383-6	6.2	47
13	Design, Synthesis and Properties of Low Band Gap Polyfluorenes for Photovoltaic Devices. <i>Synthetic Metals</i> , <b>2005</b> , 154, 53-56	3.6	87
12	Synthesis and Photoinduced Intermolecular Electronic Acceptor Ability of Pyrazolo[60]fullerenes vs Tetrathiafulvalene. <i>Bulletin of the Chemical Society of Japan</i> , <b>2005</b> , 78, 1500-1507	5.1	13
11	Infrared photocurrent spectral response from plastic solar cell with low-band-gap polyfluorene and fullerene derivative. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5081-5083	3.4	193
10	Microwave-assisted sidewall functionalization of single-wall carbon nanotubes by Diels-Alder cycloaddition. <i>Chemical Communications</i> , <b>2004</b> , 1734-5	5.8	131
9	The structure of p-nitrophenylhydrazones of aldehydes: the case of the p-nitrophenylhydrazone of 2-diethylamino-5-methoxy-2H-indazole-3-carboxaldehyde. <i>Journal of Molecular Structure</i> , <b>2004</b> , 699, 17-21	3.4	9
8	A ready access to unprecedented N-anilinopyrazolino[60]fullerenes. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 1651-1654	4.5	17
7	Synthesis and photochemistry of soluble, pentyl ester-modified single wall carbon nanotube. <i>Chemical Physics Letters</i> , <b>2004</b> , 386, 342-345	2.5	48
6	Sidewall Functionalization of Single-Walled Carbon Nanotubes with Nitrile Imines. Electron Transfer from the Substituent to the Carbon Nanotube. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12691-12697	3.4	110
5	The isoindazole nucleus as a donor in fullerene-based dyads. Evidence for electron transfer. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 2661-8	4.2	45
4	Synthesis and properties of pyrazolino[60]fullerene-donor systems. <i>Tetrahedron</i> , <b>2002</b> , 58, 5821-5826	2.4	45
3	The importance of the linking bridge in donor-C60 electroactive dyads. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 76-80	3.6	20
2	Relation between charge transfer and solvent polarity in fullerene derivatives: NMR studies. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 2130-2136		9
1	Efficient and Stable Perovskite Solar Cells based on Nitrogen-Doped Carbon Nanodots. <i>Energy Technology</i> , 2101059	3.5	0