Luis A Otero

List of Publications by Year in descending order

58 papers	3,094 citations	218677 26 h-index	155660 55 g-index
58 all docs	58 docs citations	58 times ranked	4593 citing authors

#	Article	IF	Citations
1	BOPHYâ€Fullerene C₆₀ Dyad as a Photosensitizer for Antimicrobial Photodynamic Therapy. Chemistry - A European Journal, 2022, 28, .	3.3	15
2	Electrochemical formation of photoactive organic heterojunctions. Porphyrin-C60 polymeric photoelectrochemical cells. Electrochimica Acta, 2021, 365, 137333.	5.2	5
3	Photoactive antimicrobial coating based on a PEDOT-fullerene C₆₀ polymeric dyad. RSC Advances, 2021, 11, 23519-23532.	3.6	20
4	Langmuir-Blodgett monolayers holding a wound healing active compound and its effect in cell culture. A model for the study of surface mediated drug delivery systems. Heliyon, 2021, 7, e06436.	3.2	4
5	Electrosynthesis of a hyperbranched dendrimeric porphyrin polymer: optical and electronic characterization as a material for bifunctional electrochromic supercapacitors. Sustainable Energy and Fuels, 2020, 4, 6125-6140.	4.9	16
6	Antimicrobial Photodynamic Polymeric Films Bearing Biscarbazol Triphenylamine End-Capped Dendrimeric Zn(II) Porphyrin. ACS Applied Materials & Interfaces, 2019, 11, 27574-27587.	8.0	38
7	Electrochemical, spectroelectrochemical and surface photovoltage study of ambipolar C60-EDOT and C60-Carbazole based conducting polymers. Electrochimica Acta, 2019, 311, 178-191.	5.2	7
8	Formation of dendrimer-guest complexes as a strategy to increase the solubility of a phenazine N, Nâ€²-dioxide derivative with antitumor activity. Heliyon, 2019, 5, e01528.	3.2	12
9	Electrochemical films deposition and electro-optical properties of bis-carbazol-triphenylamine end-caped dendrimeric polymers. Electrochimica Acta, 2018, 263, 585-595.	5.2	15
10	Perovskite solar cells with versatile electropolymerized fullerene as electron extraction layer. Electrochimica Acta, 2018, 292, 697-706.	5.2	9
11	Electrochemical generation of a molecular heterojunction. A new Zn-Porphyrin-Fullerene C60 Polymeric Film. Electrochimica Acta, 2017, 238, 81-90.	5.2	17
12	Formation and characterization of Langmuir and Langmuir-Blodgett films of Newkome-type dendrons in presence and absence of a therapeutic compound, for the development of surface mediated drug delivery systems. Journal of Colloid and Interface Science, 2017, 496, 243-253.	9.4	7
13	Fluorous molecules for dye-sensitized solar cells: synthesis and properties of di-branched, di-anchoring organic sensitizers containing fluorene subunits. New Journal of Chemistry, 2017, 41, 7729-7738.	2.8	9
14	Electropolimerization of Functionalizaed Carbazole End-Capped Dendrimers. Formation of Conductive Films. Electrochimica Acta, 2016, 207, 143-151.	5.2	31
15	Electrochemical polymerization of EDOT modified Phthalocyanines and their applications as electrochromic materials with green coloration, and strong absorption in the Near-IR. Electrochimica Acta, 2016, 213, 594-605.	5.2	38
16	(Invited) Synthesis and Characterization of Photoactive Porphyrin Electropolymers. ECS Meeting Abstracts, 2016, , .	0.0	0
17	Photoinduced Charge Separation in Organicâ€“Organic Heterojunctions Based on Porphyrin Electropolymers. Spectral and Time Dependent Surface Photovoltage Study.. Journal of Physical Chemistry C, 2015, 119, 4044-4051.	3.1	16
18	Synthesis and Properties of an Electropolymer Obtained from a Dimeric Donor/Acceptor System with a 4,4â€²-Spirobi[cyclopenta[2,1-b:3,4-bâ€²]dithiophene] Core. Macromolecules, 2015, 48, 4364-4372.	4.8	11

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19	First generation newkome-type dendrimer as solubility enhancer of antitumor benzimidazole carbamate. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2015, 82, 351-359.	1.6	5
20	Photoinduced charge separation in organic-inorganic hybrid system: C 60 -containing electropolymer / CdSe-quantum dots. Electrochimica Acta, 2015, 173, 316-322.	5.2	12
21	Photodynamic Inactivation of Bacteria Using Novel Electrogenerated Porphyrin-Fullerene C₆₀ Polymeric Films. Environmental Science & Technology, 2015, 49, 7456-7463.	10.0	62
22	Electrochemical Generation of Porphyrin-Porphyrin and Porphyrin-C60 Polymeric Photoactive Organic Heterojunctions. Electrochimica Acta, 2014, 133, 399-406.	5.2	12
23	Recombination Study of Combined Halides (Cl, Br, I) Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1628-1635.	4.6	384
24	Evaluation of different PAMAM dendrimers as molecular vehicle of 1,2,4-triazine N-oxide derivative with potential antitumor activity. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 79, 65-73.	1.6	8
25	Intramolecular charge separation in spirobifluorene-based donorâ€“acceptor compounds adsorbed on Au and indium tin oxide electrodes. Thin Solid Films, 2013, 527, 175-178.	1.8	4
26	Synthesis and Photovoltaic Applications of a 4,4â€²-Spirobi[cyclopenta[2,1-b;3,4-bâ€²]dithiophene]-Bridged Donor/Acceptor Dye. Organic Letters, 2013, 15, 4642-4645.	4.6	37
27	Electrogenerated Conductive Polymers from Triphenylamine End-Capped Dendrimers. Macromolecules, 2013, 46, 4754-4763.	4.8	52
28	Photoinduced charge separation in donorâ€“acceptor spiro compounds at metal and metal oxide surfaces: application in dye-sensitized solar cell. RSC Advances, 2012, 2, 4869.	3.6	21
29	Photocurrent enhancement in dye-sensitized photovoltaic devices with titaniaâ€“graphene composite electrodes. Journal of Electroanalytical Chemistry, 2012, 683, 43-46.	3.8	47
30	Fluorous Molecules for Dye-Sensitized Solar Cells: Synthesis and Characterization of Fluorene-Bridged Donor/Acceptor Dyes with Bulky Perfluoroalkoxy Substituents. Journal of Physical Chemistry C, 2012, 116, 21190-21200.	3.1	32
31	Synthesis and characterization of porphyrin electrochromic and photovoltaic electropolymers. Organic Electronics, 2012, 13, 604-614.	2.6	43
32	Electrochemical Tuning of Morphological and Optoelectronic Characteristics of Donorâ€“Acceptor Spiro-Fluorene Polymer Film. Application in the Building of an Electroluminescent Device. Journal of Physical Chemistry C, 2011, 115, 21907-21914.	3.1	17
33	Electrochemical oxidation-induced polymerization of 5,10,15,20-tetrakis[3-(N-ethylcarbazoyl)]porphyrin. Formation and characterization of a novel electroactive porphyrin thin film. Electrochimica Acta, 2011, 56, 4126-4134.	5.2	33
34	Electrochemical polymerization of palladium (II) and free base 5,10,15,20-tetrakis(4-N,N-diphenylaminophenyl)porphyrins: Its applications as electrochromic and photoelectric materials. Electrochimica Acta, 2010, 55, 1948-1957.	5.2	28
35	Interaction induced transition in the nanoporous TiO₂/Pdâ€porphyrin system. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 280-283.	0.8	1
36	Spirobifluorene-Bridged Donor/Acceptor Dye for Organic Dye-Sensitized Solar Cells. Organic Letters, 2010, 12, 12-15.	4.6	136

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37	Engineering of gold surface work function by electrodeposition of spirobifluorene donorâ€“acceptor bipolar systems. Organic Electronics, 2009, 10, 1307-1313.	2.6	11
38	Photodynamic Properties and Photoantimicrobial Action of Electrochemically Generated Porphyrin Polymeric Films. Environmental Science & Technology, 2009, 43, 902-908.	10.0	40
39	Near-IR sensitization of wide band gap oxide semiconductor by axially anchored Si-naphthalocyanines. Energy and Environmental Science, 2009, 2, 529.	30.8	57
40	Synthesis and Properties of a Novel Cross-Linked Electroactive Polymer Formed from a Bipolar Starburst Monomer. Macromolecules, 2009, 42, 626-635.	4.8	52
41	Correlation Between the Distribution of Oxide Functional Groups and Electrocatalytic Activity of Glassy Carbon Surface. Journal of the Electrochemical Society, 2008, 155, F110.	2.9	15
42	A Novel Electrochromic Polymer Synthesized through Electropolymerization of a New Donorâ^'Acceptor Bipolar System. Macromolecules, 2007, 40, 4456-4463.	4.8	125
43	Optically induced switch of the surface work function in TiO2/porphyrinâ€“C60dyad system. Journal of Materials Chemistry, 2007, 17, 2107-2112.	6.7	18
44	Correlation between Photovoltaic Performance and Impedance Spectroscopy of Dye-Sensitized Solar Cells Based on Ionic Liquids. Journal of Physical Chemistry C, 2007, 111, 6550-6560.	3.1	870
45	Synthesis and Properties of a Novel Electrochromic Polymer Obtained from the Electropolymerization of a 9,9'-Spirobifluorene-Bridged Donorâ^'Acceptor (Dâ^'A) Bichromophore System. Chemistry of Materials, 2006, 18, 3495-3502.	6.7	85
46	Conductance of a biomolecular wire. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8686-8690.	7.1	88
47	Photosensitization of thin SnO2 nanocrystalline semiconductor film electrodes with electron donorâ€“acceptor metallodiporphyrin dyad. Chemical Physics, 2005, 312, 97-109.	1.9	8
48	Carboxyphenyl Metalloporphyrins as Photosensitizers of Semiconductor Film Electrodes. A Study of the Effect of Different Central Metals. Journal of Physical Chemistry B, 2005, 109, 20953-20962.	2.6	60
49	Synthesis of a diporphyrin dyad bearing electron-donor and electron-withdrawing substituents with potential use in the spectral sensitization of semiconductor solar cells. Journal of Porphyrins and Phthalocyanines, 2003, 07, 42-51.	0.8	12
50	Correlation of fluorescence quenching in carotenoporphyrin dyads with the energy of intramolecular charge transfer states. Effect of the number of conjugated double bonds of the carotenoid moiety. Physical Chemistry Chemical Physics, 2003, 5, 469-475.	2.8	32
51	Synthesis and photophysical properties of Zn(II) porphyrin-C60 dyad with potential use in solar cells. Journal of Physical Organic Chemistry, 2002, 15, 844-851.	1.9	52
52	Active transport of Ca2+ by an artificial photosynthetic membrane. Nature, 2002, 420, 398-401.	27.8	167
53	Synthesis of a porphyrinâ€“C60 dyad for potential use in solar energy conversion. Dyes and Pigments, 2001, 50, 163-170.	3.7	19
54	Photosensitization of Thin SnO2Nanocrystalline Semiconductor Film Electrodes with Metallodiporphyrin. Journal of Physical Chemistry B, 2000, 104, 7644-7651.	2.6	48

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55	Synthesis of porphyrin dyads with potential use in solar energy conversion. Journal of Materials Chemistry, 2000, 10, 645-650.	6.7	81
56	Photosensitization of Thin SnO2 Nanocrystalline Semiconductor Film Electrodes with Metalloporphyrins and Alkyl-substituted Metalloporphyrins. Journal of Porphyrins and Phthalocyanines, 1998, 02, 123-131.	0.8	15
57	Photosensitization of nanocrystalline TiO2 thin films by a polyimide bearing pendent substituted-Ru(bpy)3+2groups. Journal of Photochemistry and Photobiology B: Biology, 1998, 43, 232-238.	3.8	9
58	Photoelectrochemistry of a Substituted-Ru(bpy)32+-Labeled Polyimide and Nanocrystalline SnO2 Composite Formulated as a Thin-Film Electrode. Journal of Physical Chemistry A, 1998, 102, 5333-5340.	2.5	26