

Luis A Otero

List of Publications by Year in descending order

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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	Correlation between Photovoltaic Performance and Impedance Spectroscopy of Dye-Sensitized Solar Cells Based on Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6550-6560.	3.1	870
2	Recombination Study of Combined Halides (Cl, Br, I) Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1628-1635.	4.6	384
3	Active transport of Ca ²⁺ by an artificial photosynthetic membrane. <i>Nature</i> , 2002, 420, 398-401.	27.8	167
4	Spirobifluorene-Bridged Donor/Acceptor Dye for Organic Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2010, 12, 12-15.	4.6	136
5	A Novel Electrochromic Polymer Synthesized through Electropolymerization of a New Donor-Acceptor Bipolar System. <i>Macromolecules</i> , 2007, 40, 4456-4463.	4.8	125
6	Conductance of a biomolecular wire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8686-8690.	7.1	88
7	Synthesis and Properties of a Novel Electrochromic Polymer Obtained from the Electropolymerization of a 9,9'-Spirobifluorene-Bridged Donor-Acceptor (D-A) Bichromophore System. <i>Chemistry of Materials</i> , 2006, 18, 3495-3502.	6.7	85
8	Synthesis of porphyrin dyads with potential use in solar energy conversion. <i>Journal of Materials Chemistry</i> , 2000, 10, 645-650.	6.7	81
9	Photodynamic Inactivation of Bacteria Using Novel Electrogenerated Porphyrin-Fullerene C ₆₀ Polymeric Films. <i>Environmental Science & Technology</i> , 2015, 49, 7456-7463.	10.0	62
10	Carboxyphenyl Metalloporphyrins as Photosensitizers of Semiconductor Film Electrodes. A Study of the Effect of Different Central Metals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20953-20962.	2.6	60
11	Near-IR sensitization of wide band gap oxide semiconductor by axially anchored Si-naphthalocyanines. <i>Energy and Environmental Science</i> , 2009, 2, 529.	30.8	57
12	Synthesis and photophysical properties of Zn(II) porphyrin-C60 dyad with potential use in solar cells. <i>Journal of Physical Organic Chemistry</i> , 2002, 15, 844-851.	1.9	52
13	Synthesis and Properties of a Novel Cross-Linked Electroactive Polymer Formed from a Bipolar Starburst Monomer. <i>Macromolecules</i> , 2009, 42, 626-635.	4.8	52
14	Electrogenerated Conductive Polymers from Triphenylamine End-Capped Dendrimers. <i>Macromolecules</i> , 2013, 46, 4754-4763.	4.8	52
15	Photosensitization of Thin SnO ₂ Nanocrystalline Semiconductor Film Electrodes with Metallodiporphyrin. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7644-7651.	2.6	48
16	Photocurrent enhancement in dye-sensitized photovoltaic devices with titania-graphene composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2012, 683, 43-46.	3.8	47
17	Synthesis and characterization of porphyrin electrochromic and photovoltaic electropolymers. <i>Organic Electronics</i> , 2012, 13, 604-614.	2.6	43
18	Photodynamic Properties and Photoantimicrobial Action of Electrochemically Generated Porphyrin Polymeric Films. <i>Environmental Science & Technology</i> , 2009, 43, 902-908.	10.0	40

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19	Electrochemical polymerization of EDOT modified Phthalocyanines and their applications as electrochromic materials with green coloration, and strong absorption in the Near-IR. <i>Electrochimica Acta</i> , 2016, 213, 594-605.	5.2	38
20	Antimicrobial Photodynamic Polymeric Films Bearing Biscarbazol Triphenylamine End-Capped Dendrimeric Zn(II) Porphyrin. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27574-27587.	8.0	38
21	Synthesis and Photovoltaic Applications of a 4,4'-Spirobi[cyclopenta[2,1- <i>b</i>];3,4- <i>b'</i>]dithiophene]-Bridged Donor/Acceptor Dye. <i>Organic Letters</i> , 2013, 15, 4642-4645.	4.6	37
22	Electrochemical oxidation-induced polymerization of 5,10,15,20-tetrakis[3-(N-ethylcarbazoyl)]porphyrin. Formation and characterization of a novel electroactive porphyrin thin film. <i>Electrochimica Acta</i> , 2011, 56, 4126-4134.	5.2	33
23	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. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 469-475.	2.8	32
24	Fluorous Molecules for Dye-Sensitized Solar Cells: Synthesis and Characterization of Fluorene-Bridged Donor/Acceptor Dyes with Bulky Perfluoroalkoxy Substituents. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21190-21200.	3.1	32
25	Electropolymerization of Functionalized Carbazole End-Capped Dendrimers. Formation of Conductive Films. <i>Electrochimica Acta</i> , 2016, 207, 143-151.	5.2	31
26	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. <i>Electrochimica Acta</i> , 2010, 55, 1948-1957.	5.2	28
27	Photoelectrochemistry of a Substituted-Ru(bpy) ₃ ²⁺ -Labeled Polyimide and Nanocrystalline SnO ₂ Composite Formulated as a Thin-Film Electrode. <i>Journal of Physical Chemistry A</i> , 1998, 102, 5333-5340.	2.5	26
28	Photoinduced charge separation in donor-acceptor spiro compounds at metal and metal oxide surfaces: application in dye-sensitized solar cell. <i>RSC Advances</i> , 2012, 2, 4869.	3.6	21
29	Photoactive antimicrobial coating based on a PEDOT-fullerene C ₆₀ polymeric dyad. <i>RSC Advances</i> , 2021, 11, 23519-23532.	3.6	20
30	Synthesis of a porphyrin-C ₆₀ dyad for potential use in solar energy conversion. <i>Dyes and Pigments</i> , 2001, 50, 163-170.	3.7	19
31	Optically induced switch of the surface work function in TiO ₂ /porphyrin-C ₆₀ dyad system. <i>Journal of Materials Chemistry</i> , 2007, 17, 2107-2112.	6.7	18
32	Electrochemical Tuning of Morphological and Optoelectronic Characteristics of Donor-Acceptor Spiro-Fluorene Polymer Film. Application in the Building of an Electroluminescent Device. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21907-21914.	3.1	17
33	Electrochemical generation of a molecular heterojunction. A new Zn-Porphyrin-Fullerene C ₆₀ Polymeric Film. <i>Electrochimica Acta</i> , 2017, 238, 81-90.	5.2	17
34	Photoinduced Charge Separation in Organic-Organic Heterojunctions Based on Porphyrin Electropolymers. Spectral and Time Dependent Surface Photovoltage Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4044-4051.	3.1	16
35	Electrosynthesis of a hyperbranched dendrimeric porphyrin polymer: optical and electronic characterization as a material for bifunctional electrochromic supercapacitors. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6125-6140.	4.9	16
36	Photosensitization of Thin SnO ₂ Nanocrystalline Semiconductor Film Electrodes with Metalloporphyrins and Alkyl-substituted Metalloporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 1998, 02, 123-131.	0.8	15

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37	Correlation Between the Distribution of Oxide Functional Groups and Electrocatalytic Activity of Glassy Carbon Surface. <i>Journal of the Electrochemical Society</i> , 2008, 155, F110.	2.9	15
38	Electrochemical films deposition and electro-optical properties of bis-carbazol-triphenylamine end-capped dendrimeric polymers. <i>Electrochimica Acta</i> , 2018, 263, 585-595.	5.2	15
39	BOPHY- C_{60} Dyad as a Photosensitizer for Antimicrobial Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	15
40	Synthesis of a diporphyrin dyad bearing electron-donor and electron-withdrawing substituents with potential use in the spectral sensitization of semiconductor solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2003, 07, 42-51.	0.8	12
41	Electrochemical Generation of Porphyrin-Porphyrin and Porphyrin-C ₆₀ Polymeric Photoactive Organic Heterojunctions. <i>Electrochimica Acta</i> , 2014, 133, 399-406.	5.2	12
42	Photoinduced charge separation in organic-inorganic hybrid system: C ₆₀ -containing electropolymer / CdSe-quantum dots. <i>Electrochimica Acta</i> , 2015, 173, 316-322.	5.2	12
43	Formation of dendrimer-guest complexes as a strategy to increase the solubility of a phenazine N, N'-dioxide derivative with antitumor activity. <i>Heliyon</i> , 2019, 5, e01528.	3.2	12
44	Engineering of gold surface work function by electrodeposition of spirobifluorene donor-acceptor bipolar systems. <i>Organic Electronics</i> , 2009, 10, 1307-1313.	2.6	11
45	Synthesis and Properties of an Electropolymer Obtained from a Dimeric Donor/Acceptor System with a 4,4'-Spiro[<i>bicyclopenta</i> [2,1- <i>b</i> :3,4- <i>b'</i>]dithiophene] Core. <i>Macromolecules</i> , 2015, 48, 4364-4372. ^{4,8}		11
46	Photosensitization of nanocrystalline TiO ₂ thin films by a polyimide bearing pendent substituted-Ru(bpy) ₃ ²⁺ groups. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998, 43, 232-238.	3.8	9
47	Fluorous molecules for dye-sensitized solar cells: synthesis and properties of di-branched, di-anchoring organic sensitizers containing fluorene subunits. <i>New Journal of Chemistry</i> , 2017, 41, 7729-7738.	2.8	9
48	Perovskite solar cells with versatile electropolymerized fullerene as electron extraction layer. <i>Electrochimica Acta</i> , 2018, 292, 697-706.	5.2	9
49	Photosensitization of thin SnO ₂ nanocrystalline semiconductor film electrodes with electron donor-acceptor metallodiporphyrin dyad. <i>Chemical Physics</i> , 2005, 312, 97-109.	1.9	8
50	Evaluation of different PAMAM dendrimers as molecular vehicle of 1,2,4-triazine N-oxide derivative with potential antitumor activity. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 79, 65-73.	1.6	8
51	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. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 243-253.	9.4	7
52	Electrochemical, spectroelectrochemical and surface photovoltage study of ambipolar C ₆₀ -EDOT and C ₆₀ -Carbazole based conducting polymers. <i>Electrochimica Acta</i> , 2019, 311, 178-191.	5.2	7
53	First generation newkome-type dendrimer as solubility enhancer of antitumor benzimidazole carbamate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015, 82, 351-359.	1.6	5
54	Electrochemical formation of photoactive organic heterojunctions. Porphyrin-C ₆₀ polymeric photoelectrochemical cells. <i>Electrochimica Acta</i> , 2021, 365, 137333.	5.2	5

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55	Intramolecular charge separation in spirobifluorene-based donor-acceptor compounds adsorbed on Au and indium tin oxide electrodes. <i>Thin Solid Films</i> , 2013, 527, 175-178.	1.8	4
56	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. <i>Heliyon</i> , 2021, 7, e06436.	3.2	4
57	Interaction induced transition in the nanoporous TiO ₂ /Pd-porphyrin system. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 280-283.	0.8	1
58	(Invited) Synthesis and Characterization of Photoactive Porphyrin Electropolymers. <i>ECS Meeting Abstracts</i> , 2016, .	0.0	0