

Luis A Otero

List of Publications by Year in descending order

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249298

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all docs

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docs citations

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times ranked

5350
citing authors

#	ARTICLE	IF	CITATIONS
1	BOPHY- C_{60} Dyad as a Photosensitizer for Antimicrobial Photodynamic Therapy. Chemistry - A European Journal, 2022, 28, .	1.7	15
2	Electrochemical formation of photoactive organic heterojunctions. Porphyrin- C_{60} polymeric photoelectrochemical cells. Electrochimica Acta, 2021, 365, 137333.	2.6	5
3	Photoactive antimicrobial coating based on a PEDOT-fullerene C_{60} polymeric dyad. RSC Advances, 2021, 11, 23519-23532.	1.7	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.	1.4	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.	2.5	16
6	Antimicrobial Photodynamic Polymeric Films Bearing Biscarbazol Triphenylamine End-Capped Dendrimeric Zn(II) Porphyrin. ACS Applied Materials & Interfaces, 2019, 11, 27574-27587.	4.0	38
7	Electrochemical, spectroelectrochemical and surface photovoltage study of ambipolar C_{60} -EDOT and C_{60} -Carbazole based conducting polymers. Electrochimica Acta, 2019, 311, 178-191.	2.6	7
8	Formation of dendrimer-guest complexes as a strategy to increase the solubility of a phenazine N, N'-dioxide derivative with antitumor activity. Heliyon, 2019, 5, e01528.	1.4	12
9	Electrochemical films deposition and electro-optical properties of bis-carbazol-triphenylamine end-capped dendrimeric polymers. Electrochimica Acta, 2018, 263, 585-595.	2.6	15
10	Perovskite solar cells with versatile electropolymerized fullerene as electron extraction layer. Electrochimica Acta, 2018, 292, 697-706.	2.6	9
11	Electrochemical generation of a molecular heterojunction. A new Zn-Porphyrin-Fullerene C_{60} Polymeric Film. Electrochimica Acta, 2017, 238, 81-90.	2.6	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.	5.0	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.	1.4	9
14	Electropolymerization of Functionalized Carbazole End-Capped Dendrimers. Formation of Conductive Films. Electrochimica Acta, 2016, 207, 143-151.	2.6	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.	2.6	38
16	(Invited) Synthesis and Characterization of Photoactive Porphyrin Electropolymers. ECS Meeting Abstracts, 2016, , .	0.0	0
17	Photoinduced Charge Separation in Organic/Organic Heterojunctions Based on Porphyrin Electropolymers. Spectral and Time Dependent Surface Photovoltage Study.. Journal of Physical Chemistry C, 2015, 119, 4044-4051.	1.5	16
18	Synthesis and Properties of an Electropolymer Obtained from a Dimeric Donor/Acceptor System with a 4,4'-Spiro[5.5]undecane Core. Macromolecules, 2015, 48, 4364-4372. ^{2,2}		11

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19	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.	0.9	5
20	Photoinduced charge separation in organic-inorganic hybrid system: C 60 -containing electropolymer / CdSe-quantum dots. <i>Electrochimica Acta</i> , 2015, 173, 316-322.	2.6	12
21	Photodynamic Inactivation of Bacteria Using Novel Electrogenerated Porphyrin-Fullerene C ₆₀ Polymeric Films. <i>Environmental Science & Technology</i> , 2015, 49, 7456-7463.	4.6	62
22	Electrochemical Generation of Porphyrin-Porphyrin and Porphyrin-C60 Polymeric Photoactive Organic Heterojunctions. <i>Electrochimica Acta</i> , 2014, 133, 399-406.	2.6	12
23	Recombination Study of Combined Halides (Cl, Br, I) Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1628-1635.	2.1	384
24	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.	0.9	8
25	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.	0.8	4
26	Synthesis and Photovoltaic Applications of a 4,4'-Spiro[cyclopenta[2,1-b:3,4-b']dithiophene]-Bridged Donor/Acceptor Dye. <i>Organic Letters</i> , 2013, 15, 4642-4645.	2.4	37
27	Electrogenerated Conductive Polymers from Triphenylamine End-Capped Dendrimers. <i>Macromolecules</i> , 2013, 46, 4754-4763.	2.2	52
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.	1.7	21
29	Photocurrent enhancement in dye-sensitized photovoltaic devices with titania-graphene composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2012, 683, 43-46.	1.9	47
30	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.	1.5	32
31	Synthesis and characterization of porphyrin electrochromic and photovoltaic electropolymers. <i>Organic Electronics</i> , 2012, 13, 604-614.	1.4	43
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.	1.5	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. <i>Electrochimica Acta</i> , 2011, 56, 4126-4134.	2.6	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. <i>Electrochimica Acta</i> , 2010, 55, 1948-1957.	2.6	28
35	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
36	Spirobifluorene-Bridged Donor/Acceptor Dye for Organic Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2010, 12, 12-15.	2.4	136

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37	Engineering of gold surface work function by electrodeposition of spirobifluorene donor-acceptor bipolar systems. <i>Organic Electronics</i> , 2009, 10, 1307-1313.	1.4	11
38	Photodynamic Properties and Photoantimicrobial Action of Electrochemically Generated Porphyrin Polymeric Films. <i>Environmental Science & Technology</i> , 2009, 43, 902-908.	4.6	40
39	Near-IR sensitization of wide band gap oxide semiconductor by axially anchored Si-naphthalocyanines. <i>Energy and Environmental Science</i> , 2009, 2, 529.	15.6	57
40	Synthesis and Properties of a Novel Cross-Linked Electroactive Polymer Formed from a Bipolar Starburst Monomer. <i>Macromolecules</i> , 2009, 42, 626-635.	2.2	52
41	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.	1.3	15
42	A Novel Electrochromic Polymer Synthesized through Electropolymerization of a New Donor-Acceptor Bipolar System. <i>Macromolecules</i> , 2007, 40, 4456-4463.	2.2	125
43	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
44	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.	1.5	870
45	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.	3.2	85
46	Conductance of a biomolecular wire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8686-8690.	3.3	88
47	Photosensitization of thin SnO ₂ nanocrystalline semiconductor film electrodes with electron donor-acceptor metalloporphyrin dyad. <i>Chemical Physics</i> , 2005, 312, 97-109.	0.9	8
48	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.	1.2	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. <i>Journal of Porphyrins and Phthalocyanines</i> , 2003, 07, 42-51.	0.4	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. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 469-475.	1.3	32
51	Synthesis and photophysical properties of Zn(II) porphyrin-C ₆₀ dyad with potential use in solar cells. <i>Journal of Physical Organic Chemistry</i> , 2002, 15, 844-851.	0.9	52
52	Active transport of Ca ²⁺ by an artificial photosynthetic membrane. <i>Nature</i> , 2002, 420, 398-401.	13.7	167
53	Synthesis of a porphyrin-C ₆₀ dyad for potential use in solar energy conversion. <i>Dyes and Pigments</i> , 2001, 50, 163-170.	2.0	19
54	Photosensitization of Thin SnO ₂ Nanocrystalline Semiconductor Film Electrodes with Metalloporphyrin. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7644-7651.	1.2	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 SnO ₂ Nanocrystalline Semiconductor Film Electrodes with Metalloporphyrins and Alkyl-substituted Metalloporphyrins. Journal of Porphyrins and Phthalocyanines, 1998, 02, 123-131.	0.4	15
57	Photosensitization of nanocrystalline TiO ₂ thin films by a polyimide bearing pendent substituted-Ru(bpy) ₃ ²⁺ groups. Journal of Photochemistry and Photobiology B: Biology, 1998, 43, 232-238.	1.7	9
58	Photoelectrochemistry of a Substituted-Ru(bpy) ₃ ²⁺ -Labeled Polyimide and Nanocrystalline SnO ₂ Composite Formulated as a Thin-Film Electrode. Journal of Physical Chemistry A, 1998, 102, 5333-5340.	1.1	26