

JosÃ©-Luis Maldonado

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Relationship between the V_{OC} Tuning Effect and the Interface Activation Energy Due to the Third Component Concentration in Ternary Organic Solar Cells. ACS Applied Energy Materials, 2022, 5, 4288-4295.	5.1	2
2	Synthesis of Donor-Acceptor Copolymers Derived from Diketopyrrolopyrrole and Fluorene via Eco-Friendly Direct Arylation: Nonlinear Optical Properties, Transient Absorption Spectroscopy, and Theoretical Modeling. Energies, 2022, 15, 3855.	3.1	2
3	Optoelectronic properties of (Z)-3-(4-(4,5-diphenyl-1H-imidazole-2-yl)phenyl)-2-phenylacrylonitrile films under acid and thermal environments for tuning OLED emission. Dyes and Pigments, 2021, 187, 109115.	3.7	2
4	The Role of Silver Nanoparticles in the Hole Transport Layer in Organic Solar Cells Based on PBDB-T:ITIC. Journal of Electronic Materials, 2021, 50, 4118-4127.	2.2	8
5	Nano-films of carbo-benzene derivatives: Scanning probe microscopy analysis and prospects of use in organic solar cells. Synthetic Metals, 2021, 278, 116826.	3.9	2
6	Solution processable graphene derivative used in a bilayer anode with conductive PEDOT:PSS on the non-fullerene PBDB-T:ITIC based organic solar cells. Solar Energy, 2021, 225, 656-665.	6.1	9
7	Structurally simple OLEDs based on a new fluorinated poly(oxindolylidenearylene). Dyes and Pigments, 2020, 173, 107989.	3.7	13
8	Defects at the interface electron transport layer and alternative counter electrode, their impact on perovskite solar cells performance. Solar Energy, 2020, 195, 610-617.	6.1	8
9	Scanning Probe Microscopy Analysis of Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 29520-29527.	8.0	3
10	Interfacial Energetic Level Mapping and Nano-Ordering of Small Molecule/Fullerene Organic Solar Cells by Scanning Tunneling Microscopy and Spectroscopy. Nanomaterials, 2020, 10, 427.	4.1	6
11	Eco-friendly synthesis of regioregular poly(3-hexylthiophene) by direct arylation polymerization: Analysis of the properties that determine its performance in BHJ solar cells. Polymer, 2020, 193, 122348.	3.8	4
12	Core carbo-mer of an Extended Tetrathiafulvalene: Redox-Controlled Reversible Conversion to a carbo-Benzenic Dication. Chemistry - A European Journal, 2020, 26, 10707-10711.	3.3	6
13	Stability evaluation of water droplets levitated by a TinyLev acoustic levitator for laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 168, 105855.	2.9	11
14	Single graphene derivative layer as a hole transport in organic solar cells based on PBDB-T:ITIC. Applied Optics, 2020, 59, 8285.	1.8	8
15	Synthesis by direct arylation reaction of photovoltaic A polymers based on fluorene-thiophene-fragment and fluorinated benzothiadiazole derivatives. Journal of Materials Science: Materials in Electronics, 2019, 30, 13974-13983.	2.2	6
16	Functionalized and reduced graphene oxide as hole transport layer and for use in ternary organic solar cell. Optical Materials, 2019, 98, 109434.	3.6	24
17	A novel coordination mode of $1-N$ -Br-pyridylbenz-(imida, oxa or othia)-zole to Pt(II): synthesis, characterization, electrochemical and structural analysis. RSC Advances, 2019, 9, 14033-14039.	3.6	6
18	Effect of the functionalization of CdS nanoparticles in the in-situ synthesis of P3HT/CdS composites. European Polymer Journal, 2019, 116, 471-479.	5.4	11

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19	Expanding the carbo-acceptor Benzene Chemical Space for Electron-Accepting Ability: Trifluorotolyl/Tertibutyl Substitution Balance. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900049.	1.6	2
20	Nontoxic pyrite iron sulfide nanocrystals as second electron acceptor in PTB7:PCBM-based organic photovoltaic cells. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2238-2250.	2.8	5
21	White Organic Light emitting diodes based On exciplex states by using a new carbazole derivative as single emitter Layer. <i>Dyes and Pigments</i> , 2019, 163, 754-760.	3.7	16
22	Synthesis of polyfluorenes by oxidative polymerization, their characterization and implementation in organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2716-2725.	2.2	3
23	Increasing the efficiency of organic solar cells by using a bulk electron transport layer of PFN and green synthesized AgNs. <i>Materials Letters</i> , 2019, 237, 101-104.	2.6	3
24	Organic photovoltaic cell analysis through quantum efficiency and scanning tunneling microscopy of the donor/blend as an active film. <i>Journal of Materials Science</i> , 2019, 54, 2427-2445.	3.7	26
25	Electrochemical deposition of poly[ethylene-dioxythiophene] (PEDOT) films on ITO electrodes for organic photovoltaic cells: control of morphology, thickness, and electronic properties. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2025-2037.	2.5	16
26	Organic solar cells based on graphene derivatives and eutectic alloys vacuum-free deposited as top electrodes. <i>Carbon</i> , 2018, 134, 301-309.	10.3	35
27	Stability study in organic solar cells based on PTB7:PC71BM and the scaling effect of the active layer. <i>Solar Energy</i> , 2018, 163, 510-518.	6.1	32
28	Semiconducting Polymer Thin Films Used in Organic Solar Cells: A Scanning Tunneling Microscopy Study. <i>Advanced Electronic Materials</i> , 2018, 5, 1800499.	5.1	12
29	Efficient OLEDs Fabricated by Solution Process Based on Carbazole and Thienopyrrolediones Derivatives. <i>Molecules</i> , 2018, 23, 280.	3.8	11
30	Organoboron donor-acceptor chromophores for small-molecule organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16410-16415.	2.2	5
31	A difluorenyl-carbo-cyclohexadiene: prospective chromophore for two-photon absorption. <i>French-Ukrainian Journal of Chemistry</i> , 2018, 6, 9-17.	0.4	2
32	Active thin film variation in OPV cells and analysis through external and internal quantum efficiency. , 2018, , .		0
33	Effect of thermal annealing on the structure of the small molecule (electro-donor) DRCN5T: tunneling spectroscopies analysis. , 2018, , .		0
34	Organic solar cells all made by blade and slot-die coating techniques. <i>Solar Energy</i> , 2017, 146, 79-84.	6.1	35
35	Semi-Automatic Elemental Identification of Laser-Induced Breakdown Spectra Using Wavelength Similarity Coefficient. <i>Applied Spectroscopy</i> , 2017, 71, 627-633.	2.2	2
36	Simultaneous Height Adjust fitting: An alternative automated fitting procedure for laser-induced plasma spectra composed by multiple Lorentzian profiles. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 134, 1-5.	2.9	3

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37	Hexaaryl-carbo-benzenes revisited: a novel synthetic route, crystallographic data, and prospects of electrochemical behavior. <i>New Journal of Chemistry</i> , 2017, 41, 3908-3914.	2.8	4
38	PTB7:PC ₇₁ BM-Based Solar Cells Fabricated With the Eutectic Alloy Field's Metal as an Alternative Cathode and the Influence of an Electron Extraction Layer. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 191-198.	2.5	28
39	Small Molecules Derived from Thieno[3,4-c]pyrrole-4,6-dione (TPD) and Their Use in Solution Processed Organic Solar Cells. <i>Molecules</i> , 2017, 22, 1607.	3.8	26
40	Physicochemical and Luminescent Properties of Copolymers Composed of Three Monomers: Polythiophenes Based on 3-Hexylthiophene and 3,4-Ethylenedioxythiophene. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-11.	2.7	5
41	Light Emission Properties of a Cross-Conjugated Fluorene Polymer: Demonstration of Its Use in Electro-Luminescence and Lasing Devices. <i>Polymers</i> , 2016, 8, 43.	4.5	15
42	Performance and stability of PTB7:PC71BM based polymer solar cells, with ECZ and/or PVK dopants, under the application of an external electric field. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 6271-6281.	2.2	15
43	Semiconductor Polymer/Top Electrode Interface Generated by Two Deposition Methods and Its Influence on Organic Solar Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28763-28770.	8.0	17
44	A Schiff base derivative used as sensor of copper through colorimetric and surface plasmon resonance techniques. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 221-227.	7.8	40
45	Polythiophenes based on pyrene as pendant group: Synthesis, structural characterization and luminescent properties. <i>Journal of Molecular Structure</i> , 2016, 1103, 25-34.	3.6	12
46	Difluorenylcarbo ^o Benzenes: Synthesis, Electronic Structure, and Two ^o Photon Absorption Properties of Hydrocarbon Quadrupolar Chromophores. <i>Chemistry - A European Journal</i> , 2015, 21, 14186-14195.	3.3	23
47	Photophysical Study of Polymer-Based Solar Cells with an Organo-Boron Molecule in the Active Layer. <i>Materials</i> , 2015, 8, 4258-4272.	2.9	4
48	Third-Order Nonlinear Optical Behavior of Novel Polythiophene Derivatives Functionalized with Disperse Red 19 Chromophore. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-10.	2.7	7
49	Mechanosynthesis of a phenylenedivinylidenebisquinoline. Optical, morphological and electroluminescence properties. <i>Journal of Molecular Structure</i> , 2015, 1086, 138-145.	3.6	10
50	Polymer solar cells based on P3HT:PC71BM doped at different concentrations of isocyanate-treated graphene. <i>Synthetic Metals</i> , 2015, 200, 91-98.	3.9	24
51	High- <i>T_g</i> Functional Aromatic Polymers. <i>Macromolecules</i> , 2015, 48, 1026-1037.	4.8	34
52	Polythiophene derivative functionalized with disperse red 1 chromophore: Its third-order nonlinear optical properties through Z-scan technique under continuous and femtosecond irradiation. <i>Optical Materials</i> , 2015, 46, 366-372.	3.6	8
53	Reversible holography and optical phase conjugation for image formation/correction using highly efficient organic photorefractive polymers. <i>Journal of Applied Research and Technology</i> , 2015, 13, 537-542.	0.9	5
54	A Schiff base derivative from cinnamaldehyde for colorimetric detection of Ni ²⁺ in water. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 511-517.	7.8	55

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55	Control of Thickness of PEDOT Electrodeposits on Glass/ITO Electrodes from Organic Solutions and its Use as Anode in Organic Solar Cells. <i>Procedia Chemistry</i> , 2014, 12, 92-99.	0.7	13
56	Synthesis, Characterization and Optoelectronic Properties of Oligo(<i>p</i> -Phenylvinylidenequinolines) with Different Substituents. <i>Advanced Materials Research</i> , 2014, 976, 80-85.	0.3	5
57	Titanium oxide:fullerene composite films as electron collector layer in organic solar cells and the use of an easy-deposition cathode. <i>Optical Materials</i> , 2014, 36, 1336-1341.	3.6	11
58	Synthesis and chemical optical characterization of novel two-photon fluorescent borinates derived from Schiff bases. <i>Journal of Organometallic Chemistry</i> , 2014, 755, 33-40.	1.8	14
59	Synthesis and crystal structures of a series of Schiff bases: a photo-, solvato- and acidochromic compound. <i>New Journal of Chemistry</i> , 2014, 38, 730-738.	2.8	32
60	New polythiophene derivatives and enhanced photovoltaic effect by a boron compound blended with them in OPVs cells. <i>Synthetic Metals</i> , 2014, 196, 83-91.	3.9	8
61	Lycopene content and color index of tomatoes are affected by the greenhouse cover. <i>Scientia Horticulturae</i> , 2013, 155, 43-48.	3.6	51
62	Direct Synthesis of 2,5-Bis(dodecanoxy)phenyleneethynylene-Butadiynes by Sonogashira Coupling Reaction. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5341-5352.	2.4	6
63	Synthesis, chemical optical characterization and solvent interaction effect of novel fluorene-chromophores with D structure. <i>Dyes and Pigments</i> , 2013, 98, 31-41.	3.7	27
64	Double-pulse and calibration-free laser-induced breakdown spectroscopy at low-ablative energies. <i>Optics Letters</i> , 2012, 37, 4591.	3.3	19
65	Fast and Environmentally Friendly Quantitative Analysis of Active Agents in Anti-Diabetic Tablets by an Alternative Laser-Induced Breakdown Spectroscopy (LIBS) Method and Comparison to a Validated Reversed-Phase High-Performance Liquid Chromatography (RP-HPLC) Method. <i>Applied Spectroscopy</i> , 2012, 66, 1294-1301.	2.2	5
66	Two-photon excited fluorescence of silica nanoparticles loaded with a fluorene-based monomer and its cross-conjugated polymer: their application to cell imaging. <i>Nanoscale</i> , 2012, 4, 7751.	5.6	36
67	Synthesis, X-ray diffraction analysis, and chemical optical characterizations of boron complexes from bidentate ligands. <i>Polyhedron</i> , 2012, 43, 194-200.	2.2	11
68	Luminogenic materials constructed from tetraphenylethene building blocks: Synthesis, aggregation-induced emission, two-photon absorption, light refraction, and explosive detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 232-240.	6.7	228
69	Optical Design of Transparent Thin Metal Electrodes to Enhance In-Coupling and Trapping of Light in Flexible Polymer Solar Cells. <i>Advanced Materials</i> , 2012, 24, 6362-6367.	21.0	125
70	Celdas solares orgánicas como fuente de energía sustentable. <i>Acta Universitaria</i> , 2012, 22, 36-48.	0.2	1
71	High hole mobility of 1,2-bis[4-(diphenylamino)biphenyl-4-yl]-1,2-diphenylethene in field effect transistor. <i>Chemical Communications</i> , 2011, 47, 6924.	4.1	50
72	Performance of OPVs cells with the eutectic alloy Wood's metal used as cathode and P3HT:PC61BM blend as active layer. <i>Synthetic Metals</i> , 2011, 161, 2412-2416.	3.9	10

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73	Highly Efficient Photorefractive Organic Polymers Based on Benzonitrile Schiff Bases Nonlinear Chromophores. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23955-23963.	3.1	13
74	Stereoselective Synthesis, Efficient Light Emission, and High Bipolar Charge Mobility of Chiasmatic Luminogens. <i>Advanced Materials</i> , 2011, 23, 5430-5435.	21.0	105
75	Structural, thermal and optical characterization of a Schiff base as a new organic material for nonlinear optical crystals and films with reversible noncentrosymmetry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1757-1761.	3.9	20
76	On the use of Woods metal for fabricating and testing polymeric organic solar cells: An easy and fast method. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 595-601.	6.2	22
77	Optical and morphological characterization by atomic force microscopy of luminescent 2-styrylpyridine derivative compounds with Poly(N-vinylcarbazole) films. <i>Thin Solid Films</i> , 2011, 519, 6015-6020.	1.8	4
78	Synthesis, Characterization and Photophysical Properties of Pyridine-Carbazole Acrylonitrile Derivatives. <i>Materials</i> , 2011, 4, 562-574.	2.9	16
79	Identification and quantification of furanic compounds in tequila and mezcal using spectroscopy and chemometric methods. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 1077-1087.	0.6	22
80	Synthesis, characterization and third-order non-linear optical properties of novel fluorene monomers and their cross-conjugated polymers. <i>Polymer</i> , 2010, 51, 2351-2359.	3.8	20
81	One-pot synthesis and characterization of novel boronates for the growth of single crystals with nonlinear optical properties. <i>Dyes and Pigments</i> , 2010, 87, 76-83.	3.7	20
82	Gigantic Two-Photon Absorption Cross Sections and Strong Two-Photon Excited Fluorescence in Pyrene Core Dendrimers with Fluorene/Carbazole as Dendrons and Acetylene as Linkages. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11737-11745.	2.6	54
83	Screening method for identification of adulterate and fake tequilas by using UV-VIS spectroscopy and chemometrics. <i>Food Research International</i> , 2010, 43, 2356-2362.	6.2	50
84	Dendrimers Containing Ferrocene and Porphyrin Moieties: Synthesis and Cubic Non-Linear Optical Behavior. <i>Molecules</i> , 2010, 15, 2564-2575.	3.8	13
85	Optical nonlinearities in hyperbranched polyynes studied by two-photon excited fluorescence and third-harmonic generation spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2009, 97, 489-496.	2.2	13
86	5-Aryl-1-ferrocenylpenta-1,4-dien-3-ones: Synthesis, structures, electrochemistry and third-order nonlinear optical properties. <i>Inorganica Chimica Acta</i> , 2009, 362, 2820-2827.	2.4	6
87	A High Molecular Weight Aromatic PhOLED Matrix Polymer Obtained by Metal-Free, Superacid-Catalyzed Polyhydroxyalkylation. <i>Macromolecules</i> , 2009, 42, 9225-9230.	4.8	31
88	Synthesis and third-order nonlinear optical studies of a novel four-coordinated organoboron derivative and a bidentate ligand. <i>Synthetic Metals</i> , 2009, 159, 1281-1287.	3.9	23
89	Synthesis and non-linear optical characterization of novel borinate derivatives of cinnamaldehyde. <i>New Journal of Chemistry</i> , 2009, 33, 1693.	2.8	30
90	Yb ³⁺ quenching effects in co-doped polycrystalline BaTiO ₃ :Er ³⁺ , Yb ³⁺ . <i>Optical Materials</i> , 2008, 31, 252-260.	3.6	20

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91	Synthesis, crystal structure and non-linear optical properties of boronates derivatives of salicylideneiminophenols. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1321-1334.	1.8	35
92	Synthesis and cubic nonlinear optical behavior of phenyl and ferrocenyl-ended resorcinarene-based dendrimers. <i>Tetrahedron</i> , 2008, 64, 4460-4467.	1.9	17
93	Two examples of organic opto-electronic devices: Light emitting diodes and solar cells. <i>American Journal of Physics</i> , 2008, 76, 1130-1136.	0.7	13
94	Simple assembling of organic light emitting diodes for teaching purposes in undergraduate labs. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
95	DYNAMIC HOLOGRAPHIC IMAGING USING PHOTOREFRACTIVE POLYMERS BASED ON A BORONATE-DERIVATIVE NONLINEAR CHROMOPHORE. <i>International Journal of Modern Physics B</i> , 2007, 21, 2625-2634.	2.0	8
96	Third-harmonic generation performance of organic polymer films doped with triphenylmethane derivative dyes. <i>Optical Materials</i> , 2007, 29, 636-641.	3.6	30
97	Effect of doping with C60 on photocurrent and hole mobility in polymer composites measured by using the time-of-flight technique. <i>Optical Materials</i> , 2007, 29, 821-826.	3.6	15
98	Luminescent properties and energy transfer processes of co-doped Yb ³⁺ /Er poly-crystalline YAG matrix. <i>Optical Materials</i> , 2005, 27, 1839-1844.	3.6	36
99	Electron-Transport Properties and Use in Organic Light-Emitting Diodes of a Bis(dioxaborine)fluorene Derivative. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8647-8651.	2.6	94
100	<title>Mobility in polymer composites doped with organic molecules using the time-of-flight technique</title>. , 2004, , .		0
101	Effect of Substitution on the Hole Mobility of Bis(diarylamino)biphenyl Derivatives Doped in Poly(Styrene). <i>Chemistry of Materials</i> , 2003, 15, 994-999.	6.7	37
102	Effect of aryl substitution on the hole mobility of bis-diarylamino-biphenyl-doped polymer composites. , 2002, , .		0
103	Forty simple experiments with an He-Ne laser for high school students. , 2000, 3831, 282.		0
104	Synthesis and Characterization of Highly Efficient Photorefractive Polymer Composites with Long Phase Stability. <i>Macromolecules</i> , 1998, 31, 734-739.	4.8	48
105	Thermally stable high-gain photorefractive polymer composites based on a tri-functional chromophore. <i>Applied Physics Letters</i> , 1998, 72, 1679-1681.	3.3	47
106	<title>Progress in organic photorefractive material development</title>. , 1998, 3471, 22.		1
107	<title>Photorefractive polymer dispersed liquid crystals</title>. , 1998, 3297, 28.		0
108	High-gain photorefractive polymers. , 1998, 3281, 268.		0

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109	Phase stability of guest/host photorefractive polymers studied by light scattering experiments. Applied Physics Letters, 1997, 71, 1159-1161.	3.3	39
110	New advances in organic photorefractive material development. Proceedings of SPIE, 1997, 3144, 176.	0.8	3
111	Scanning Probe Microscopy Analysis of Nonfullerene Organic Solar Cells. , 0, .		1