

MarÃ-a J GÃ³mez-Escalonilla

List of Publications by Year in descending order

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107
papers

3,586
citations

117625

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g-index

110
all docs

110
docs citations

110
times ranked

3460
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and Photoinduced Electron Transfer in Porphyrin- and Phthalocyanine-Bearing N-Doped Graphene Hybrids Synthesized by Click Chemistry. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	3
2	Cover Feature: Formation and Photoinduced Electron Transfer in Porphyrin- and Phthalocyanine-Bearing N-Doped Graphene Hybrids Synthesized by Click Chemistry (<i>Chem. Eur. J.</i>) Tj ETQq0 0 OrqBT / Overlock 10 T		
3	Fullerene/Non-fullerene Alloy for High-Performance All-Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6461-6469.	8.0	17
4	Self-Assembly-Directed Organization of a Fullerene-Bisporphyrin into Supramolecular Giant Donut Structures for Excited-State Charge Stabilization. <i>Journal of the American Chemical Society</i> , 2021, 143, 11199-11208.	13.7	6
5	Ternary All-Small-Molecule Solar Cells with Two Small-Molecule Donors and Y6 Nonfullerene Acceptor with a Power Conversion Efficiency over Above 14% Processed from a Nonhalogenated Solvent. <i>Solar Rrl</i> , 2020, 4, 2000460.	5.8	13
6	Sc3N@Ih-C80 based donor-acceptor conjugate: role of thiophene spacer in promoting ultrafast excited state charge separation. <i>RSC Advances</i> , 2020, 10, 19861-19866.	3.6	2
7	The influence of the terminal acceptor and oligomer length on the photovoltaic properties of A-D-A small molecule donors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4763-4770.	5.5	15
8	Triplet photosensitizer-nanotube conjugates: synthesis, characterization and photochemistry of charge stabilizing, palladium porphyrin/carbon nanotube conjugates. <i>Nanoscale</i> , 2020, 12, 9890-9898.	5.6	10
9	Cycloaddition of Nitrile Oxides to Graphene: a Theoretical and Experimental Approach. <i>Chemistry - A European Journal</i> , 2019, 25, 14644-14650.	3.3	9
10	Modulating charge carrier density and mobility in doped graphene by covalent functionalization. <i>Chemical Communications</i> , 2019, 55, 9999-10002.	4.1	7
11	Bidirectional charge-transfer behavior in carbon-based hybrid nanomaterials. <i>Nanoscale</i> , 2019, 11, 14978-14992.	5.6	20
12	Occurrence of excited state charge separation in a N-doped graphene-perylenediimide hybrid formed via click chemistry. <i>Nanoscale Advances</i> , 2019, 1, 4009-4015.	4.6	4
13	Edge-on and face-on functionalized Pc on enriched semiconducting SWCNT hybrids. <i>Nanoscale</i> , 2018, 10, 5205-5213.	5.6	18
14	Regioselectivity of the Pauson-Khand reaction in single-walled carbon nanotubes. <i>Nanoscale</i> , 2018, 10, 15078-15089.	5.6	11
15	N-Doped graphene/C60 covalent hybrid as a new material for energy harvesting applications. <i>Chemical Science</i> , 2018, 9, 8221-8227.	7.4	12
16	New cyclopentadithiophene (CDT) linked porphyrin donors with different end-capping acceptors for efficient small molecule organic solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4742-4751.	5.5	19
17	Charge stabilizing tris(triphenylamine)-zinc porphyrin-carbon nanotube hybrids: synthesis, characterization and excited state charge transfer studies. <i>Nanoscale</i> , 2017, 9, 7551-7558.	5.6	35
18	Comparative study on the photovoltaic characteristics of A-D-A and D-A-D molecules based on Zn-porphyrin; a D-A-D molecule with over 8.0% efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1057-1065.	10.3	49

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19	Oligomers of cyclopentadithiophene-vinylene in aromatic and quinoidal versions and redox species with intermediate forms. <i>Chemical Science</i> , 2017, 8, 8106-8114.	7.4	16
20	Efficient Photoinduced Energy and Electron Transfer in Zn ^{II} -Porphyrin/Fullerene Dyads with Interchromophoric Distances up to 2.6 nm and No Wire-like Connectivity. <i>Chemistry - A European Journal</i> , 2017, 23, 14200-14212.	3.3	14
21	Morphological changes in carbon nanohorns under stress: a combined Raman spectroscopy and TEM study. <i>RSC Advances</i> , 2016, 6, 49543-49550.	3.6	36
22	Regioselective preparation of a bis-pyrazolinofullerene by a macrocyclization reaction. <i>Chemical Communications</i> , 2016, 52, 13205-13208.	4.1	1
23	Modulation of the exfoliated graphene work function through cycloaddition of nitrile imines. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29582-29590.	2.8	16
24	Efficiency improvement using bis(trifluoromethane) sulfonamide lithium salt as a chemical additive in porphyrin based organic solar cells. <i>Nanoscale</i> , 2016, 8, 17953-17962.	5.6	23
25	Ultrafast electron transfer in all-carbon-based SWCNT ₆₀ donor-acceptor nanoensembles connected by poly(phenylene-ethynylene) spacers. <i>Nanoscale</i> , 2016, 8, 14716-14724.	5.6	18
26	CuSCN as selective contact in solution-processed small-molecule organic solar cells leads to over 7% efficient porphyrin-based device. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11009-11022.	10.3	39
27	(4 + 2) and (2 + 2) Cycloadditions of Benzyne to C ₆₀ and Zig-Zag Single-Walled Carbon Nanotubes: The Effect of the Curvature. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1716-1726.	3.1	34
28	Synthesis, characterization and photoinduced charge separation of carbon nanohorn-oligothienylenevinylene hybrids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1828-1837.	2.8	8
29	Grafted-double walled carbon nanotubes as electrochemical platforms for immobilization of antibodies using a metallic-complex chelating polymer: Application to the determination of adiponectin cytokine in serum. <i>Biosensors and Bioelectronics</i> , 2015, 74, 24-29.	10.1	47
30	Covalent decoration onto the outer walls of double walled carbon nanotubes with perylenediimides. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4960-4969.	5.5	16
31	Covalent functionalization of N-doped graphene by N-alkylation. <i>Chemical Communications</i> , 2015, 51, 16916-16919.	4.1	24
32	Peripheral versus axial substituted phthalocyanine-double-walled carbon nanotube hybrids as light harvesting systems. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10215-10224.	5.5	17
33	Photoinduced electron transfer in a carbon nanohorn-C ₆₀ conjugate. <i>Chemical Science</i> , 2014, 5, 2072.	7.4	21
34	Double-Wall Carbon Nanotube-Porphyrin Supramolecular Hybrid: Synthesis and Photophysical Studies. <i>ChemPhysChem</i> , 2014, 15, 100-108.	2.1	11
35	Photoinduced electron transfer of zinc porphyrin-oligo(thienylenevinylene)-fullerene[60] triads; thienylenevinylenes as efficient molecular wires. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2443-2451.	2.8	27
36	A photoresponsive graphene oxide-C ₆₀ conjugate. <i>Chemical Communications</i> , 2014, 50, 9053.	4.1	39

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37	Carbon Nanohorns as a Scaffold for the Construction of Disposable Electrochemical Immunosensing Platforms. Application to the Determination of Fibrinogen in Human Plasma and Urine. <i>Analytical Chemistry</i> , 2014, 86, 7749-7756.	6.5	53
38	Efficient cycloaddition of arynes to carbon nanotubes under microwave irradiation. <i>Carbon</i> , 2013, 63, 140-148.	10.3	26
39	High open circuit voltage in efficient thiophene-based small molecule solution processed organic solar cells. <i>Organic Electronics</i> , 2013, 14, 2826-2832.	2.6	33
40	Effect of porphyrin loading on performance of dye sensitized solar cells based on iodide/tri-iodide and cobalt electrolytes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13640.	10.3	22
41	Molecular dynamics of solutions of poly-3-octyl-thiophene and functionalized single wall carbon nanotubes studied by neutron scattering. <i>Chemical Physics</i> , 2013, 427, 129-141.	1.9	4
42	Push-pull triphenylamine based chromophores as photosensitizers and electron donors for molecular solar cells. <i>Tetrahedron</i> , 2013, 69, 6875-6883.	1.9	8
43	Photochemical Evidence of Electronic Interwall Communication in Double-Wall Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2012, 18, 16922-16930.	3.3	11
44	Endohedral and exohedral hybrids involving fullerenes and carbon nanotubes. <i>Nanoscale</i> , 2012, 4, 4370.	5.6	44
45	Pyrazolinofullerenes: a less known type of highly versatile fullerene derivatives. <i>Chemical Society Reviews</i> , 2011, 40, 5232.	38.1	57
46	A soluble hybrid material combining carbon nanohorns and C ₆₀ . <i>Chemical Communications</i> , 2011, 47, 12771.	4.1	24
47	Synthesis and Photoinduced Energy and Electron Transfer Processes of C ₆₀ -Oligothiophenevinylene-C ₇₀ Dumbbell Compounds. <i>Chemistry - A European Journal</i> , 2011, 17, 5432-5444.	3.3	9
48	A Carbon Nanohorn-Porphyrin Supramolecular Assembly for Photoinduced Electron Transfer Processes. <i>Chemistry - A European Journal</i> , 2010, 16, 10752-10763.	3.3	45
49	Cycloaddition of benzyne to SWCNT: towards CNT-based paddle wheels. <i>Chemical Communications</i> , 2010, 46, 7028.	4.1	40
50	Heck reaction on fullerene derivatives. <i>Tetrahedron Letters</i> , 2008, 49, 3656-3658.	1.4	6
51	Photoinduced Electron Transfer in Branched Bis(ferrocenylacetylene) ₆₀ Systems: Influence of the Nature of Conjugation. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3535-3543.	2.4	6
52	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> , 2008, 73, 3184-3188.	3.2	46
53	[60]Fullerene-based liquid crystals acting as acid-sensitive fluorescent probes. <i>Chemical Communications</i> , 2008, , 4590.	4.1	16
54	Heck reaction on single-walled carbon nanotubes. Synthesis and photochemical properties of a wall functionalized SWNT-anthracene derivative. <i>Journal of Materials Chemistry</i> , 2008, 18, 1592.	6.7	22

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55	Carbon nanotubes and porphyrins: an exciting combination for optoelectronic devices. <i>Journal of Porphyrins and Phthalocyanines</i> , 2007, 11, 348-358.	0.8	20
56	Microwave Irradiation: An Important Tool to Functionalize Fullerenes and Carbon Nanotubes. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 766-782.	1.1	40
57	Photophysical Properties of the Newly Synthesized Triad Based on [70]Fullerene Studies with Laser Flash Photolysis. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4335-4341.	2.6	11
58	High effectiveness of oligothiolenylvinylene as molecular wires in Zn-porphyrin and C60 connected systems. <i>Chemical Communications</i> , 2007, , 4498.	4.1	40
59	Through-space communication in a TTF-C60-TTF triad. <i>New Journal of Chemistry</i> , 2007, 31, 230-236.	2.8	13
60	Synthesis and Photoinduced Intramolecular Processes of Fulleropyrrolidine-Oligothiolenylvinylene-Ferrocene Triads. <i>Chemistry - A European Journal</i> , 2007, 13, 3924-3933.	3.3	33
61	Comparison between the Photophysical Properties of Pyrazolo- and Isoxazolo[60]fullerenes with Dual Donors (Ferrocene, Aniline and Alkoxyphenyl). <i>European Journal of Organic Chemistry</i> , 2007, 2007, 2175-2185.	2.4	18
62	The first synthesis of a conjugated hybrid of C60 fullerene and a single-wall carbon nanotube. <i>Carbon</i> , 2007, 45, 2250-2252.	10.3	60
63	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> , 2006, 128, 6626-6635.	13.7	194
64	Synthesis and photophysical properties of ruthenocene-[60]fullerene dyads. <i>New Journal of Chemistry</i> , 2006, 30, 93-101.	2.8	11
65	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> , 2006, 8, 4104-4111.	2.8	13
66	Pyrazolino [60]fullerenes: synthesis and properties. <i>Comptes Rendus Chimie</i> , 2006, 9, 1058-1074.	0.5	18
67	Electron Transfer in Nonpolar Solvents in Fullerodendrimers with Peripheral Ferrocene Units. <i>Chemistry - A European Journal</i> , 2006, 12, 5149-5157.	3.3	33
68	Synthesis and Photophysical Properties of a Pyrazolino[60]fullerene with Dimethylaniline Connected by an Acetylene Linkage. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 2344-2351.	2.4	19
69	Synthesis and Photoinduced Intermolecular Electronic Acceptor Ability of Pyrazolo[60]fullerenes vs Tetrathiafulvalene. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 1500-1507.	3.2	15
70	Ruthenocene as a new donor fragment in [60]fullerene donor dyads. <i>Tetrahedron Letters</i> , 2005, 46, 4781-4784.	1.4	20
71	Pyrazolino[60]fullerene-Oligophenylenevinylene Dumbbell-Shaped Arrays: Synthesis, Electrochemistry, Photophysics, and Self-Assembly on Surfaces. <i>Chemistry - A European Journal</i> , 2005, 11, 4405-4415.	3.3	45
72	Photophysics, electrochemistry and structure of a pyrazolino[60]fullerene dendrimer in solid molecular films. <i>Synthetic Metals</i> , 2005, 148, 47-52.	3.9	8

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73	Microwave-assisted sidewall functionalization of single-wall carbon nanotubes by Diels-Alder cycloaddition. <i>Chemical Communications</i> , 2004, , 1734-1735.	4.1	149
74	A ready access to unprecedented N-anilinopyrazolino[60]fullerenes. <i>Tetrahedron Letters</i> , 2004, 45, 1651-1654.	1.4	18
75	Synthesis and photochemistry of soluble, pentyl ester-modified single wall carbon nanotube. <i>Chemical Physics Letters</i> , 2004, 386, 342-345.	2.6	51
76	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> , 2004, 108, 12691-12697.	2.6	117
77	The Isoindazole Nucleus as a Donor in Fullerene-Based Dyads. Evidence for Electron Transfer. <i>Journal of Organic Chemistry</i> , 2004, 69, 2661-2668.	3.2	48
78	Optical properties and photoinduced processes in multicomponent architectures with oligophenylenevinylene units. <i>Synthetic Metals</i> , 2004, 147, 19-28.	3.9	11
79	Synthesis of Dumbbell-Shaped Bis-(pyrazolino[60]fullerene)-oligophenylenevinylene Derivatives.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
80	The importance of the linking bridge in donor-C60 electroactive dyads. <i>New Journal of Chemistry</i> , 2002, 26, 76-80.	2.8	20
81	Relation between charge transfer and solvent polarity in fullerene derivatives: NMR studies Electronic supplementary information (ESI) available: Table S1: chemical shifts (ppm) in C6D6 (ETN = 0.111), CDCl3 (ETN = 0.259), and CD2Cl2 (ETN = 0.309). See http://www.rsc.org/suppdata/jm/b2/b203112b/ . <i>Journal of Materials Chemistry</i> , 2002, 12, 2130-2136.	6.7	10
82	Photoinduced processes in fullerenopyrrolidine and fullerenopyrazoline derivatives substituted with an oligophenylenevinylene moiety Electronic supplementary information (ESI) available: synthetic procedures and full characterization of all new compounds. See http://www.rsc.org/suppdata/jm/b2/b200432a/ . <i>Journal of Materials Chemistry</i> , 2002, 12, 2077-2087.	6.7	91
83	Synthesis and properties of pyrazolino[60]fullerene-donor systems. <i>Tetrahedron</i> , 2002, 58, 5821-5826.	1.9	47
84	Synthesis of dumbbell-shaped bis-(pyrazolino[60]fullerene)-oligophenylenevinylene derivatives. <i>Tetrahedron Letters</i> , 2002, 43, 7507-7511.	1.4	34
85	C60-Based Triads with Improved Electron-Acceptor Properties: A Pyrazoly pyrazolino[60]fullerenes. <i>Journal of Organic Chemistry</i> , 2001, 66, 5033-5041.	3.2	60
86	Palladium-catalysed phenylation of heteroaromatics in water or methylformamide under microwave irradiation. <i>Tetrahedron Letters</i> , 2001, 42, 635-637.	1.4	61
87	Synthesis, electrochemistry and photophysical properties of phenylenevinylene fullerodendrimers. <i>Tetrahedron Letters</i> , 2001, 42, 3435-3438.	1.4	56
88	A complete model for the prediction of 1H- and 13C-NMR chemical shifts and torsional angles in phenyl-substituted pyrazoles. <i>Tetrahedron</i> , 2001, 57, 4179-4187.	1.9	12
89	Cycloadditions under Microwave Irradiation Conditions: Methods and Applications. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 3659-3673.	2.4	160
90	Synthesis of Pyrazolo[3,4-b]pyridines by Cycloaddition Reactions under Microwave Irradiation. <i>Tetrahedron</i> , 2000, 56, 1569-1577.	1.9	64

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91	Synthesis and Properties of Isoxazolo[60]fullerene~Donor Dyads. Journal of Organic Chemistry, 2000, 65, 8675-8684.	3.2	62
92	Modification of Regioselectivity in Cycloadditions to C70 under Microwave Irradiation. Journal of Organic Chemistry, 2000, 65, 2499-2507.	3.2	84
93	Synthesis of new C60~donor dyads by reaction of pyrazolylhydrazones with [60]fullerene under microwave irradiation. Tetrahedron Letters, 1999, 40, 1587-1590.	1.4	52
94	Electroactive 3~-(N-phenylpyrazolyl)isoxazoline[4~5][60]fullerene dyads. Tetrahedron Letters, 1999, 40, 4889-4892.	1.4	45
95	The effect of focused microwaves on the reaction of ethyl N-trichloroethylidene carbamate with pyrazole derivatives. Tetrahedron, 1999, 55, 9623-9630.	1.9	21
96	N-Arylation of Pyrrolidino[3~4][60]fullerene: Synthesis under Solvent-Free Conditions and Electrochemistry of New C60~Acceptor Dyads. European Journal of Organic Chemistry, 1999, 1999, 3433-3436.	2.4	14
97	Efficient tautomerization hydrazone-azomethine imine under microwave irradiation. Synthesis of [4,3~] and [5,3~]bipyrazoles. Tetrahedron, 1998, 54, 13167-13180.	1.9	75
98	First Diels-Alder Reaction of Pyrazolyl Imines under Microwave Irradiation. Synlett, 1998, 1998, 1069-1070.	1.8	23
99	Thermal and Microwave-Assisted Synthesis of Diels~Alder Adducts of [60]Fullerene with 2,3-Pyrazinoquinodimethanes:~Characterization and Electrochemical Properties. Journal of Organic Chemistry, 1997, 62, 3705-3710.	3.2	62
100	Microwave irradiation: more than just a method for accelerating reactions. Contemporary Organic Synthesis, 1997, 4, 373-386.	1.5	216
101	Cycloadditions to [60]fullerene using microwave irradiation: A convenient and expeditious procedure. Tetrahedron, 1997, 53, 2599-2608.	1.9	73
102	1,3-Dipolar Cycloaddition of Nitriles under Microwave Irradiation in Solvent-Free Conditions. Heterocycles, 1996, 43, 1021.	0.7	36
103	Diels-Alder cycloaddition of vinylpyrazoles. Synergy between microwave irradiation and solvent-free conditions. Tetrahedron, 1996, 52, 9237-9248.	1.9	32
104	Facial Selectivity in Cycloadditions of a Chiral Ketene Acetal under Microwave Irradiation in Solvent-Free Conditions. Configurational Assignment of the Cycloadducts by NOESY Experiments and Molecular Mechanics Calculations. Journal of Organic Chemistry, 1995, 60, 4160-4166.	3.2	30
105	Reactivity of Bis(heteroaryl)methanes towards Double Electrophiles. Synthesis of Two New Trinuclear [5.6.5]- and [5.5.5]-heterocyclic Systems from Bis(pyrazol-1-yl)methane. Heterocycles, 1995, 41, 1779.	0.7	2
106	Microwaves in Cycloadditions. , 0, , 295-343.		6
107	<i>meso</i>-Ethynyl-extended push~pull type porphyrins for near-infrared organic photodetectors. Journal of Materials Chemistry C, 0, , .	5.5	0