Dolores Velasco

List of Publications by Year
in descending order

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84 papers	2,482 citations	172457 29 h-index	223800 46 g-index
89 all docs	89 docs citations	89 times ranked	2566 citing authors

#	Article	IF	Citations
1	Recent advances towards azobenzene-based light-driven real-time information-transmitting materials. Beilstein Journal of Organic Chemistry, 2012, 8, 1003-1017.	2.2	252
2	Red Organic Light-Emitting Radical Adducts of Carbazole and Tris(2,4,6-trichlorotriphenyl)methyl Radical That Exhibit High Thermal Stability and Electrochemical Amphotericity. Journal of Organic Chemistry, 2007, 72, 7523-7532.	3.2	134
3	[4-(N-Carbazolyl)-2,6-dichlorophenyl]bis(2,4,6-trichlorophenyl)methyl radical an efficient red light-emitting paramagnetic molecule. Tetrahedron Letters, 2006, 47, 2305-2309.	1.4	116
4	Kinetic study of the fast thermal cis-to-trans isomerisation of para-, ortho- and polyhydroxyazobenzenes. Physical Chemistry Chemical Physics, 2010, 12, 13238.	2.8	105
5	Fastest Thermal Isomerization of an Azobenzene for Nanosecond Photoswitching Applications under Physiological Conditions. Angewandte Chemie - International Edition, 2012, 51, 12820-12823.	13.8	95
6	Molecular order of air-stable p-type organic thin-film transistors by tuning the extension of the Ï€-conjugated core: the cases of indolo[3,2-b]carbazole and triindole semiconductors. Journal of Materials Chemistry C, 2015, 3, 506-513.	5.5	83
7	Structure and Optical Properties of 2,3,7,9-Polysubstituted Carbazole Derivatives. Experimental and Theoretical Studies. Chemistry of Materials, 2001, 13, 2528-2536.	6.7	67
8	Taking Advantage of the Radical Character of Tris(2,4,6-trichlorophenyl)methyl To Synthesize New Paramagnetic Glassy Molecular Materials. Journal of Organic Chemistry, 2008, 73, 3759-3767.	3.2	65
9	Kinetico-Mechanistic Study of the Thermal Cis-to-Trans Isomerization of 4,4â€²-Dialkoxyazoderivatives in Nematic Liquid Crystals. Journal of Physical Chemistry B, 2010, 114, 1287-1293.	2.6	61
10	Development of Green/Red-Absorbing Chromophores Based on a Coumarin Scaffold That Are Useful as Caging Groups. Journal of Organic Chemistry, 2017, 82, 5398-5408.	3.2	58
11	New heterocyclic systems to afford microsecond green-light isomerisable azo dyes and their use as fast molecular photochromic switches. Chemical Communications, 2013, 49, 11427.	4.1	57
12	Influence of the photo-active azo cross-linker spacer on the opto-mechanics of polysiloxane elastomer actuators. Journal of Materials Chemistry, 2011, 21, 1094-1101.	6.7	52
13	Charge Transfer States in Stable Neutral and Oxidized Radical Adducts from Carbazole Derivatives. Journal of Organic Chemistry, 2014, 79, 1771-1777.	3.2	49
14	Light-controlled real time information transmitting systems based on nanosecond thermally-isomerising amino-azopyridinium salts. Chemical Communications, 2012, 48, 3421.	4.1	48
15	Photo-driven optical oscillators in the kHz range based on pushâ€“pull hydroxyazopyridines. Chemical Communications, 2011, 47, 4022.	4.1	45
16	Molecular photo-oscillators based on highly accelerated heterocyclic azo dyes in nematic liquid crystals. Chemical Communications, 2014, 50, 6704-6706.	4.1	44
17	Allâ€Organic Discotic Radical with a Spinâ€Carrying Rigidâ€Core Showing Intracolumnar Interactions and Multifunctional Properties. Angewandte Chemie - International Edition, 2009, 48, 6516-6519.	13.8	42
18	Azophenol-Based Liquidâ^'crystalline Elastomers for Light-Driven Actuators. Organic Letters, 2011, 13, 2282-2285.	4.6	41

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19	Easy accessible blue luminescent carbazole-based materials for organic light-emitting diodes. Dyes and Pigments, 2017, 137, 24-35.	3.7	41
20	Fastest molecular photochromic switches based on nanosecond isomerizing benzothiazolium azophenolic salts. Journal of Materials Chemistry C, 2014, 2, 474-480.	5.5	40
21	A short route to multiply substituted fluorenones. Tetrahedron Letters, 1999, 40, 3229-3232.	1.4	36
22	Nematic-to-isotropic photo-induced phase transition in azobenzene-doped low-molar liquid crystals. Physical Chemistry Chemical Physics, 2009, 11, 4244.	2.8	33
23	Enantiomeric resolution and determination of the absolute configuration of dibenzophosphole 5-oxides. Tetrahedron: Asymmetry, 2001, 12, 1987-1997.	1.8	32
24	Experimental and Theoretical Study of a New Class of Acceptor Group in Chromophores for Nonlinear Optics:Â 2-Substituted 4-Methylene-4H-oxazol-5-ones. Chemistry of Materials, 2002, 14, 2240-2251.	6.7	32
25	Synthesis and Characterization of Unsymmetrically Î²-Substituted Porphyrin Liquid Crystals:Â Influence of the Chemical Structure on the Mesophase Ordering. Chemistry of Materials, 2005, 17, 5366-5374.	6.7	32
26	Photoactuation and thermal isomerisation mechanism of cyanoazobenzene-based liquid crystal elastomers. Physical Chemistry Chemical Physics, 2014, 16, 8448.	2.8	32
27	Increasing the Isomerisation Kinetics of Azo Dyes by Chemical Bonding to Liquidâ€Crystalline Polymers. Chemistry - A European Journal, 2011, 17, 6518-6523.	3.3	31
28	Fast Isomerizing Methyl Iodide Azopyridinium Salts for Molecular Switches. Organic Letters, 2010, 12, 3514-3517.	4.6	30
29	Understanding the fast thermal isomerisation of azophenols in glassy and liquid-crystalline polymers. Physical Chemistry Chemical Physics, 2014, 16, 3108.	2.8	30
30	Stable radical cores: a key for bipolar charge transport in glass forming carbazole and indole derivatives. Chemical Communications, 2010, 46, 5130.	4.1	29
31	Synthesis of symmetric and asymmetric carbazolyl monomers and their siloxane polymers. Effect of the 2,3,6,7,9-substitution in the carbazole unit on its mesomorphic behaviour. Macromolecular Chemistry and Physics, 1997, 198, 2563-2581.	2.2	28
32	Picosecond Switchable Azo Dyes. Chemistry - A European Journal, 2019, 25, 7726-7732.	3.3	25
33	Stable Allâ€Organic Radicals with Ambipolar Charge Transport. Chemistry - A European Journal, 2016, 22, 18551-18558.	3.3	24
34	Sequential Uncaging with Green Light can be Achieved by Fineâ€Tuning the Structure of a Dicyanocoumarin Chromophore. ChemistryOpen, 2017, 6, 375-384.	1.9	23
35	Interface engineering and solid-state organization for triindole-based p-type organic thin-film transistors. Physical Chemistry Chemical Physics, 2018, 20, 17889-17898.	2.8	21
36	Asymmetric dibenzophospholes: new phosphorus-based chiral liquid crystals. Tetrahedron Letters, 2001, 42, 7791-7793.	1.4	20

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37	Light-emitting persistent radicals for efficient sensor devices of solvent polarity. Tetrahedron Letters, 2008, 49, 5196-5199.	1.4	20
38	Tuning the ambipolar charge transport properties of tricyanovinyl-substituted carbazole-based materials. Physical Chemistry Chemical Physics, 2017, 19, 6721-6730.	2.8	20
39	Synthesis and conformational analysis of 2-amino-1,2,3,4-tetrahydro-1-naphthalenols. Canadian Journal of Chemistry, 1988, 66, 517-527.	1.1	19
40	Selective photoregulation of the activity of glycogen synthase and glycogen phosphorylase, two key enzymes in glycogen metabolism. Organic and Biomolecular Chemistry, 2015, 13, 7282-7288.	2.8	19
41	Solid-state organization of n-type carbazole-based semiconductors for organic thin-film transistors. Physical Chemistry Chemical Physics, 2018, 20, 1142-1149.	2.8	19
42	Synthesis and non-linear optical and redox properties of 6-nitro-6â€²-piperidyl-2,2â€²-bisbenzothiazole: a new type of pushâ€“pull molecules. Tetrahedron, 2004, 60, 285-289.	1.9	18
43	Indolo[3,2-b]carbazole derivatives as hole transporting materials for electrophotography. Synthetic Metals, 2009, 159, 654-658.	3.9	18
44	A photoswitchable bis-azo derivative with a high temporal resolution. Chemical Communications, 2014, 50, 11462-11464.	4.1	18
45	Fastest non-ionic azo dyes and transfer of their thermal isomerisation kinetics into liquid-crystalline materials. Chemical Communications, 2016, 52, 5132-5135.	4.1	18
46	Role of the local order on the thermal cis-to-trans isomerisation kinetics of azo-dyes in nematic liquid crystals. Physical Chemistry Chemical Physics, 2011, 13, 11233.	2.8	17
47	New solution-processable carbazole derivatives as deep blue emitters for organic light-emitting diodes. RSC Advances, 2016, 6, 9247-9253.	3.6	17
48	Photo-controllable electronic switches based on azopyridine derivatives. Chemical Communications, 2012, 48, 9080.	4.1	15
49	Activation volumes for cis-to-trans isomerisation reactions of azophenols: a clear mechanistic indicator?. Physical Chemistry Chemical Physics, 2018, 20, 1286-1292.	2.8	15
50	Determination of the conformational preferences of adenosine at the active site of adenosine deaminase. Journal of the American Chemical Society, 1990, 112, 8221-8229.	13.7	14
51	Synthesis and phase behaviour of new carbazole containing liquid crystal side chain polysiloxanes. Macromolecular Chemistry and Physics, 1996, 197, 2729-2743.	2.2	14
52	Spatially Close Azo Dyes with Subâ€Nanosecond Switching Speeds and Exceptional Temporal Resolution. Chemistry - A European Journal, 2015, 21, 14292-14296.	3.3	12
53	High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldononitriles. Journal of Chromatography A, 1990, 519, 228-236.	3.7	11
54	Conformational study of peracetylated aldononitriles. Journal of Organic Chemistry, 1990, 55, 3530-3536.	3.2	11

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55	Stereochemical elucidation of aldoses from the proton NMR spectrum of its peracetylated aldononitrile derivatives with the aid of MM2/3JHH calculations. Journal of Organic Chemistry, 1990, 55, 3526-3530.	3.2	11
56	Synthesis of polyconjugated carbazolylâ€“oxazolones by a tandem hydrozirconationâ€“Erlenmeyer reaction. Study of their hyperpolarizability values. Tetrahedron Letters, 2002, 43, 4333-4337.	1.4	11
57	Multiple Interactions in the Self-Association of Porphyrin Discotic Mesogens. Journal of Physical Chemistry B, 2008, 112, 7395-7402.	2.6	11
58	Twisted intramolecular charge transfer in a carbazole-based chromophore: the stable [(4-N-carbazolyl)-2,3,5,6-tetrachlorophenyl]bis(2,3,5,6-tetrachlorophenyl)methyl radical. New Journal of Chemistry, 2017, 41, 8422-8430.	2.8	10
59	Bipolar charge transport in organic electron donorâ€acceptor systems with stable organic radicals as electronâ€withdrawing moieties. Journal of Physical Organic Chemistry, 2019, 32, e3974.	1.9	10
60	Synthesis of Î²,Î³-unsaturated N-acyl-2-oxazolidinones. Tetrahedron, 1996, 52, 13733-13738.	1.9	9
61	Chromatographic resolution of several racemic 9-fluorenyl derivatives on a bonded cellulose derived chiral stationary phase for HPLC. Tetrahedron: Asymmetry, 1996, 7, 633-636.	1.8	9
62	First carbazole-based lamellar liquid crystal system. Liquid Crystals, 2002, 29, 421-428.	2.2	9
63	Optical Mechanotransduction with Carbazoleâ€Based Luminescent Liquid Singleâ€Crystal Elastomers. Macromolecular Rapid Communications, 2015, 36, 755-761.	3.9	9
64	Adaptable Photochromic Switches with Self-Aggregating Heterocyclic Azo Dyes. Journal of Physical Chemistry C, 2019, 123, 23140-23144.	3.1	9
65	Highly Efficient Elastomeric Fluorescence Sensors for Force Detection. ACS Applied Polymer Materials, 2019, 1, 535-541.	4.4	9
66	Air stable organic semiconductors based on diindolo[3,2-a:3â€²,2â€²-c]carbazole. Organic Electronics, 2018, 62, 35-42.	2.6	8
67	Liquid crystal porphyrins as chemically sensitive coating materials for chemical sensors. Journal of Porphyrins and Phthalocyanines, 2009, 13, 1188-1195.	0.8	7
68	Study of asymmetric reduction of 1-substituted fluorenone with borane in the presence of several chiral amino alcohols. Tetrahedron: Asymmetry, 2000, 11, 3221-3225.	1.8	6
69	Towards the Bisbenzothienocarbazole Core: A Route of Sulfurated Carbazole Derivatives with Assorted Optoelectronic Properties and Applications. Materials, 2021, 14, 3487.	2.9	6
70	Parameterization of cyano group MM2 constants in peracetylated aldononitriles. Journal of Organic Chemistry, 1988, 53, 5363-5366.	3.2	5
71	Differential Behavior of Aminoâ€“Imino Constitutional Isomers in Nonlinear Optical Processes. ChemPhysChem, 2010, 11, 912-919.	2.1	5
72	Supramolecular Organization and Heterochiral Recognition in Langmuir Monolayers of Chiral Azobenzene Surfactants. Langmuir, 2013, 29, 9635-9642.	3.5	5

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73	Exploring optical mechanotransduction in fluorescent liquid crystal elastomers. Physical Chemistry Chemical Physics, 2016, 18, 5108-5111.	2.8	5
74	Asymmetric reduction of substituted fluorenones with aluminium lithium hydride in the presence of chiral amino alcohols. Tetrahedron: Asymmetry, 2000, 11, 3227-3230.	1.8	4
75	Smecticâ€Β Liquid Single Crystal Elastomers as Efficient Optical Mechanotransducers. Macromolecular Chemistry and Physics, 2018, 219, 1700550.	2.2	4
76	A study of the properties, reactivity and anticancer activity of novel N-methylated-3-thiazolyl or 3-thienyl carbazoles and their Pd(II) and Pt(II) complexes. Journal of Inorganic Biochemistry, 2018, 184, 134-145.	3.5	4
77	Mesomorphic Behaviour of Hemin Based Porphyrin Liquid Crystals: Structure and Temperature Dependent Intracolumnar Order. Molecular Crystals and Liquid Crystals, 2005, 439, 201/[2067]-208/[2074].	0.9	3
78	Formation of a stable biradical triplet state cation versus a closed shell singlet state cation by oxidation of adducts of 3,6-dimethoxycarbazole and polychlorotriphenylmethyl radicals. Physical Chemistry Chemical Physics, 2019, 21, 20225-20231.	2.8	3
79	Exploring the 3-(phenylethynyl)-9H-carbazole unit in the search of deep-blue emitting fluorophores. Optical Materials, 2021, 111, 110696.	3.6	3
80	Azobenzene-Containing Liquid Single Crystal Elastomers for Photoresponsive Artificial Muscles. , 2015, , 437-457.		2
81	High-Pressure Kinetics of Azo Dyes in Nematic Liquid Crystals. Journal of Physical Chemistry C, 2019, 123, 30578-30583.	3.1	2
82	Shedding Light on the Negative Differential Resistance Effect Observed in Organic Thin-Film Transistors. ACS Applied Electronic Materials, 2020, 2, 1574-1582.	4.3	2
83	Structural Features Guiding the Design of Liquid-Crystalline Elastomeric Fluorescent Force Sensors. Applied System Innovation, 2020, 3, 22.	4.6	1
84	Powder X-ray diffraction as a powerful tool to exploit in organic electronics: shedding light on the first N,Nâ€²,Nâ€²â€²-trialkyldiindolocarbazole. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 253-260.	1.1	1