

# 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	Powder X-ray diffraction as a powerful tool to exploit in organic electronics: shedding light on the first <i>cis</i> , <i>trans</i> -trialkyldiindolocarbazole. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 253-260.	1.1	1
2	Exploring the 3-(phenylethynyl)-9H-carbazole unit in the search of deep-blue emitting fluorophores. Optical Materials, 2021, 111, 110696.	3.6	3
3	Towards the Bisbenzothienocarbazole Core: A Route of Sulfurated Carbazole Derivatives with Assorted Optoelectronic Properties and Applications. Materials, 2021, 14, 3487.	2.9	6
4	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
5	Structural Features Guiding the Design of Liquid-Crystalline Elastomeric Fluorescent Force Sensors. Applied System Innovation, 2020, 3, 22.	4.6	1
6	Formation of a stable biradical triplet state cation <i>versus</i> 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
7	Adaptable Photochromic Switches with Self-Aggregating Heterocyclic Azo Dyes. Journal of Physical Chemistry C, 2019, 123, 23140-23144.	3.1	9
8	Bipolar charge transport in organic electron donor-acceptor systems with stable organic radicals as electron-withdrawing moieties. Journal of Physical Organic Chemistry, 2019, 32, e3974.	1.9	10
9	Picosecond Switchable Azo Dyes. Chemistry - A European Journal, 2019, 25, 7726-7732.	3.3	25
10	Highly Efficient Elastomeric Fluorescence Sensors for Force Detection. ACS Applied Polymer Materials, 2019, 1, 535-541.	4.4	9
11	High-Pressure Kinetics of Azo Dyes in Nematic Liquid Crystals. Journal of Physical Chemistry C, 2019, 123, 30578-30583.	3.1	2
12	Smectic Liquid Single Crystal Elastomers as Efficient Optical Mechanotransducers. Macromolecular Chemistry and Physics, 2018, 219, 1700550.	2.2	4
13	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
14	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
15	Activation volumes for <i>cis</i> -to- <i>trans</i> isomerisation reactions of azophenols: a clear mechanistic indicator?. Physical Chemistry Chemical Physics, 2018, 20, 1286-1292.	2.8	15
16	Air stable organic semiconductors based on diindolo[3,2-a:3',2'-c]carbazole. Organic Electronics, 2018, 62, 35-42.	2.6	8
17	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
18	Tuning the ambipolar charge transport properties of tricyanovinyl-substituted carbazole-based materials. Physical Chemistry Chemical Physics, 2017, 19, 6721-6730.	2.8	20

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19	Development of Green/Red-Absorbing Chromophores Based on a Coumarin Scaffold That Are Useful as Caging Groups. <i>Journal of Organic Chemistry</i> , 2017, 82, 5398-5408.	3.2	58
20	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. <i>New Journal of Chemistry</i> , 2017, 41, 8422-8430.	2.8	10
21	Easy accessible blue luminescent carbazole-based materials for organic light-emitting diodes. <i>Dyes and Pigments</i> , 2017, 137, 24-35.	3.7	41
22	Sequential Uncaging with Green Light can be Achieved by Fine-tuning the Structure of a Dicyanocoumarin Chromophore. <i>ChemistryOpen</i> , 2017, 6, 375-384.	1.9	23
23	Stable All-Organic Radicals with Ambipolar Charge Transport. <i>Chemistry - A European Journal</i> , 2016, 22, 18551-18558.	3.3	24
24	Exploring optical mechanotransduction in fluorescent liquid crystal elastomers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5108-5111.	2.8	5
25	New solution-processable carbazole derivatives as deep blue emitters for organic light-emitting diodes. <i>RSC Advances</i> , 2016, 6, 9247-9253.	3.6	17
26	Fastest non-ionic azo dyes and transfer of their thermal isomerisation kinetics into liquid-crystalline materials. <i>Chemical Communications</i> , 2016, 52, 5132-5135.	4.1	18
27	Spatially Close Azo Dyes with Sub-Nanosecond Switching Speeds and Exceptional Temporal Resolution. <i>Chemistry - A European Journal</i> , 2015, 21, 14292-14296.	3.3	12
28	Optical Mechanotransduction with Carbazole-Based Luminescent Liquid Single-Crystal Elastomers. <i>Macromolecular Rapid Communications</i> , 2015, 36, 755-761.	3.9	9
29	Selective photoregulation of the activity of glycogen synthase and glycogen phosphorylase, two key enzymes in glycogen metabolism. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7282-7288.	2.8	19
30	Azobenzene-Containing Liquid Single Crystal Elastomers for Photoresponsive Artificial Muscles. , 2015, , 437-457.		2
31	Molecular order of air-stable p-type organic thin-film transistors by tuning the extension of the $\pi$ -conjugated core: the cases of indolo[3,2-b]carbazole and triindole semiconductors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 506-513.	5.5	83
32	Charge Transfer States in Stable Neutral and Oxidized Radical Adducts from Carbazole Derivatives. <i>Journal of Organic Chemistry</i> , 2014, 79, 1771-1777.	3.2	49
33	Molecular photo-oscillators based on highly accelerated heterocyclic azo dyes in nematic liquid crystals. <i>Chemical Communications</i> , 2014, 50, 6704-6706.	4.1	44
34	Photoactuation and thermal isomerisation mechanism of cyanoazobenzene-based liquid crystal elastomers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8448.	2.8	32
35	Understanding the fast thermal isomerisation of azophenols in glassy and liquid-crystalline polymers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3108.	2.8	30
36	Fastest molecular photochromic switches based on nanosecond isomerizing benzothiazolium azophenolic salts. <i>Journal of Materials Chemistry C</i> , 2014, 2, 474-480.	5.5	40

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37	A photoswitchable bis-azo derivative with a high temporal resolution. <i>Chemical Communications</i> , 2014, 50, 11462-11464.	4.1	18
38	Supramolecular Organization and Heterochiral Recognition in Langmuir Monolayers of Chiral Azobenzene Surfactants. <i>Langmuir</i> , 2013, 29, 9635-9642.	3.5	5
39	New heterocyclic systems to afford microsecond green-light isomerisable azo dyes and their use as fast molecular photochromic switches. <i>Chemical Communications</i> , 2013, 49, 11427.	4.1	57
40	Fastest Thermal Isomerization of an Azobenzene for Nanosecond Photoswitching Applications under Physiological Conditions. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12820-12823.	13.8	95
41	Light-controlled real time information transmitting systems based on nanosecond thermally-isomerising amino-azopyridinium salts. <i>Chemical Communications</i> , 2012, 48, 3421.	4.1	48
42	Photo-controllable electronic switches based on azopyridine derivatives. <i>Chemical Communications</i> , 2012, 48, 9080.	4.1	15
43	Recent advances towards azobenzene-based light-driven real-time information-transmitting materials. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1003-1017.	2.2	252
44	Role of the local order on the thermal cis-to-trans isomerisation kinetics of azo-dyes in nematic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11233.	2.8	17
45	Influence of the photo-active azo cross-linker spacer on the opto-mechanics of polysiloxane elastomer actuators. <i>Journal of Materials Chemistry</i> , 2011, 21, 1094-1101.	6.7	52
46	Photo-driven optical oscillators in the kHz range based on push-pull hydroxyazopyridines. <i>Chemical Communications</i> , 2011, 47, 4022.	4.1	45
47	Azophenol-Based Liquid-crystalline Elastomers for Light-Driven Actuators. <i>Organic Letters</i> , 2011, 13, 2282-2285.	4.6	41
48	Increasing the Isomerisation Kinetics of Azo Dyes by Chemical Bonding to Liquid-crystalline Polymers. <i>Chemistry - A European Journal</i> , 2011, 17, 6518-6523.	3.3	31
49	Differential Behavior of Amino-Imino Constitutional Isomers in Nonlinear Optical Processes. <i>ChemPhysChem</i> , 2010, 11, 912-919.	2.1	5
50	Kinetico-Mechanistic Study of the Thermal Cis-to-Trans Isomerization of 4,4-Dialkoxyazoderivatives in Nematic Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1287-1293.	2.6	61
51	Fast Isomerizing Methyl Iodide Azopyridinium Salts for Molecular Switches. <i>Organic Letters</i> , 2010, 12, 3514-3517.	4.6	30
52	Kinetic study of the fast thermal cis-to-trans isomerisation of para-, ortho- and polyhydroxyazobenzenes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13238.	2.8	105
53	Stable radical cores: a key for bipolar charge transport in glass forming carbazole and indole derivatives. <i>Chemical Communications</i> , 2010, 46, 5130.	4.1	29
54	All-Organic Discotic Radical with a Spin-Carrying Rigid-Core Showing Intracolumnar Interactions and Multifunctional Properties. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6516-6519.	13.8	42

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55	Liquid crystal porphyrins as chemically sensitive coating materials for chemical sensors. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 1188-1195.	0.8	7
56	Indolo[3,2-b]carbazole derivatives as hole transporting materials for electrophotography. <i>Synthetic Metals</i> , 2009, 159, 654-658.	3.9	18
57	Nematic-to-isotropic photo-induced phase transition in azobenzene-doped low-molar liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4244.	2.8	33
58	Light-emitting persistent radicals for efficient sensor devices of solvent polarity. <i>Tetrahedron Letters</i> , 2008, 49, 5196-5199.	1.4	20
59	Multiple Interactions in the Self-Association of Porphyrin Discotic Mesogens. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7395-7402.	2.6	11
60	Taking Advantage of the Radical Character of Tris(2,4,6-trichlorophenyl)methyl To Synthesize New Paramagnetic Glassy Molecular Materials. <i>Journal of Organic Chemistry</i> , 2008, 73, 3759-3767.	3.2	65
61	Red Organic Light-Emitting Radical Adducts of Carbazole and Tris(2,4,6-trichlorotriphenyl)methyl Radical That Exhibit High Thermal Stability and Electrochemical Amphotericity. <i>Journal of Organic Chemistry</i> , 2007, 72, 7523-7532.	3.2	134
62	[4-(N-Carbazolyl)-2,6-dichlorophenyl]bis(2,4,6-trichlorophenyl)methyl radical an efficient red light-emitting paramagnetic molecule. <i>Tetrahedron Letters</i> , 2006, 47, 2305-2309.	1.4	116
63	Synthesis and Characterization of Unsymmetrically $\hat{2}$ -Substituted Porphyrin Liquid Crystals: Influence of the Chemical Structure on the Mesophase Ordering. <i>Chemistry of Materials</i> , 2005, 17, 5366-5374.	6.7	32
64	Mesomorphic Behaviour of Hemin Based Porphyrin Liquid Crystals: Structure and Temperature Dependent Intracolumnar Order. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 439, 201/[2067]-208/[2074].	0.9	3
65	Synthesis and non-linear optical and redox properties of 6-nitro-6- $\hat{2}$ -piperidyl-2,2- $\hat{2}$ -bisbenzothiazole: a new type of push-pull molecules. <i>Tetrahedron</i> , 2004, 60, 285-289.	1.9	18
66	Experimental and Theoretical Study of a New Class of Acceptor Group in Chromophores for Nonlinear Optics: $\hat{2}$ -Substituted 4-Methylene-4H-oxazol-5-ones. <i>Chemistry of Materials</i> , 2002, 14, 2240-2251.	6.7	32
67	First carbazole-based lamellar liquid crystal system. <i>Liquid Crystals</i> , 2002, 29, 421-428.	2.2	9
68	Synthesis of polyconjugated carbazolyl-oxazolones by a tandem hydrozirconation-Erlenmeyer reaction. Study of their hyperpolarizability values. <i>Tetrahedron Letters</i> , 2002, 43, 4333-4337.	1.4	11
69	Structure and Optical Properties of 2,3,7,9-Polysubstituted Carbazole Derivatives. Experimental and Theoretical Studies. <i>Chemistry of Materials</i> , 2001, 13, 2528-2536.	6.7	67
70	Asymmetric dibenzophospholes: new phosphorus-based chiral liquid crystals. <i>Tetrahedron Letters</i> , 2001, 42, 7791-7793.	1.4	20
71	Enantiomeric resolution and determination of the absolute configuration of dibenzophosphole 5-oxides. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 1987-1997.	1.8	32
72	Study of asymmetric reduction of 1-substituted fluorenone with borane in the presence of several chiral amino alcohols. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 3221-3225.	1.8	6

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73	Asymmetric reduction of substituted fluorenones with aluminium lithium hydride in the presence of chiral amino alcohols. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 3227-3230.	1.8	4
74	A short route to multiply substituted fluorenones. <i>Tetrahedron Letters</i> , 1999, 40, 3229-3232.	1.4	36
75	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. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 2563-2581.	2.2	28
76	Synthesis and phase behaviour of new carbazole containing liquid crystal side chain polysiloxanes. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 2729-2743.	2.2	14
77	Synthesis of $\hat{2},\hat{3}$ -unsaturated N-acyl-2-oxazolidinones. <i>Tetrahedron</i> , 1996, 52, 13733-13738.	1.9	9
78	Chromatographic resolution of several racemic 9-fluorenyl derivatives on a bonded cellulose derived chiral stationary phase for HPLC. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 633-636.	1.8	9
79	High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldonitriles. <i>Journal of Chromatography A</i> , 1990, 519, 228-236.	3.7	11
80	Conformational study of peracetylated aldonitriles. <i>Journal of Organic Chemistry</i> , 1990, 55, 3530-3536.	3.2	11
81	Stereochemical elucidation of aldoses from the proton NMR spectrum of its peracetylated aldonitrile derivatives with the aid of MM2/3JHH calculations. <i>Journal of Organic Chemistry</i> , 1990, 55, 3526-3530.	3.2	11
82	Determination of the conformational preferences of adenosine at the active site of adenosine deaminase. <i>Journal of the American Chemical Society</i> , 1990, 112, 8221-8229.	13.7	14
83	Parameterization of cyano group MM2 constants in peracetylated aldonitriles. <i>Journal of Organic Chemistry</i> , 1988, 53, 5363-5366.	3.2	5
84	Synthesis and conformational analysis of 2-amino-1,2,3,4-tetrahydro-1-naphthalenols. <i>Canadian Journal of Chemistry</i> , 1988, 66, 517-527.	1.1	19