

BelÃ©n Villacampa

List of Publications by Year in descending order

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103
papers

2,455
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159585

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105
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105
docs citations

105
times ranked

2135
citing authors

#	ARTICLE	IF	CITATIONS
1	Tetrathiafulvalene Derivatives as NLO-phores: Synthesis, Electrochemistry, Raman Spectroscopy, Theoretical Calculations, and NLO Properties of Novel TTF-Derived Donor-Acceptor Dyads. <i>Journal of Organic Chemistry</i> , 2001, 66, 8872-8882.	3.2	127
2	Tuning First Molecular Hyperpolarizabilities through the Use of Proaromatic Spacers. <i>Journal of the American Chemical Society</i> , 2005, 127, 8835-8845.	13.7	95
3	4-H-Pyran-4-ylidenes: Strong Proaromatic Donors for Organic Nonlinear Optical Chromophores. <i>Journal of Organic Chemistry</i> , 2009, 74, 6647-6657.	3.2	86
4	Bent-core liquid crystals in a route to efficient organic nonlinear optical materials. <i>Journal of Materials Chemistry</i> , 2010, 20, 2965.	6.7	68
5	The first tetrathiafulvalene derivatives exhibiting second-order NLO properties. <i>Tetrahedron</i> , 1998, 54, 4655-4662.	1.9	67
6	Structure and Optical Properties of 2,3,7,9-Polysubstituted Carbazole Derivatives. <i>Experimental and Theoretical Studies. Chemistry of Materials</i> , 2001, 13, 2528-2536.	6.7	67
7	Aromatic/Proaromatic Donors in Dicyanomethylenethiazole Merocyanines: From Neutral to Strongly Zwitterionic Nonlinear Optical Chromophores. <i>Chemistry - A European Journal</i> , 2011, 17, 826-838.	3.3	64
8	Linear and V-Shaped Nonlinear Optical Chromophores with Multiple 4-H-Pyran-4-ylidene Moieties. <i>Journal of Organic Chemistry</i> , 2010, 75, 1684-1692.	3.2	61
9	Photoinduced supramolecular chirality in side-chain liquid crystalline azopolymers. <i>Journal of Materials Chemistry</i> , 2006, 16, 1674-1680.	6.7	59
10	Second-order nonlinear optical properties of tetrathiafulvalene-(thio)barbituric acid chromophores. <i>Tetrahedron Letters</i> , 1998, 39, 3577-3580.	1.4	58
11	Novel NLO-phores with Proaromatic Donor and Acceptor Groups. <i>Organic Letters</i> , 2003, 5, 3143-3146.	4.6	56
12	Cyanostilbene bent-core molecules: a route to functional materials. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3038-3048.	5.5	53
13	Electronic, Optical, and Vibrational Properties of Bridged Dithienylethylene-Based NLO Chromophores. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3109-3120.	3.1	48
14	D-A Compounds with Tunable Intramolecular Charge Transfer Achieved by Incorporation of Butenolide Nitriles as Acceptor Moieties. <i>Journal of Organic Chemistry</i> , 2015, 80, 12115-12128.	3.2	46
15	Synthesis and characterization of novel NLO-phores from -extended tetrathiafulvalene (TTF) derivatives. <i>Tetrahedron</i> , 1998, 54, 11651-11658.	1.9	45
16	Second-order nonlinear optical properties of tetrathiafulvalene-3-(dicyanomethylidene)indan-1-one chromophores. <i>Tetrahedron Letters</i> , 1999, 40, 8599-8602.	1.4	45
17	Synthesis and properties of push-pull chromophores for second-order nonlinear optics derived from -extended tetrathiafulvalenes (TTFs). <i>Tetrahedron</i> , 2002, 58, 7463-7475.	1.9	41
18	Iminium Salts of Dithiafulvenylpolyenals: An Easy Entry to the Corresponding Aldehydes and Doubly Proaromatic Nonlinear Optic-phores. <i>Journal of Organic Chemistry</i> , 2008, 73, 5890-5898.	3.2	39

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19	EPR and optical study of Ni ²⁺ ions in CsCaF ₃ and CsCdF ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 1994, 55, 263-272.	4.0	38
20	Optical anisotropy and non-linear optical properties of azobenzene methacrylic polymers. <i>Polymer</i> , 2004, 45, 2341-2348.	3.8	38
21	Synthesis, Structure, and Optical Properties of 1,4-Dithiafulvene-Based Nonlinear Optic-phores. <i>Journal of Organic Chemistry</i> , 2007, 72, 6440-6446.	3.2	38
22	Optical, Redox, and NLO Properties of Tricyanovinyl Oligothiophenes: Comparisons between Symmetric and Asymmetric Substitution Patterns. <i>Chemistry - A European Journal</i> , 2006, 12, 5458-5470.	3.3	37
23	Synthesis of Conjugated Tetrathiafulvalene (TTF)-Acceptor Molecules with Intramolecular Charge Transfer and Nonlinear Optical Properties. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1927-1935.	2.4	35
24	Polarization, second-order nonlinear optical properties and electrochromism in 4H-pyranylidene chromophores with a quinoid/aromatic thiophene ring bridge. <i>RSC Advances</i> , 2015, 5, 231-242.	3.6	35
25	Electronic and Structural Effects on the Nonlinear Optical Behavior in Push-Pull TTF/Tricarbonyl Chromium Arene Complexes. <i>Journal of Organic Chemistry</i> , 2004, 69, 6986-6995.	3.2	34
26	Synthesis, Characterization, and Optical Properties of 4-H-Pyran-4-ylidene Donor-Based Chromophores: The Relevance of the Location of a Thiophene Ring in the Spacer. <i>Journal of Organic Chemistry</i> , 2012, 77, 4634-4644.	3.2	34
27	beta-Diketone, pyrazole and isoxazole derivatives with polar groups: Liquid crystalline and non-linear optical properties. <i>Liquid Crystals</i> , 1997, 22, 265-273.	2.2	32
28	The first 1,3-dithiol-2-ylidene donor-acceptor chromophores containing an azine spacer: synthesis, electrochemical and nonlinear optical properties. <i>Journal of Materials Chemistry</i> , 2001, 11, 374-380.	6.7	32
29	Experimental and Theoretical Study of a New Class of Acceptor Group in Chromophores for Nonlinear Optics: 2-Substituted 4-Methylene-4H-oxazol-5-ones. <i>Chemistry of Materials</i> , 2002, 14, 2240-2251.	6.7	32
30	Decreased Optical Nonlinearities upon CF ₃ Substitution on Tricyanofuran Acceptors. <i>Organic Letters</i> , 2008, 10, 4963-4966.	4.6	32
31	Rhodium(I) and Iridium(I) Complexes Containing 1,2-Diketone or Pyrazole Ligands. <i>Liquid Crystal and Nonlinear Optical Properties</i> . <i>Inorganic Chemistry</i> , 1999, 38, 3085-3092.	4.0	29
32	Synthesis, Characterization, and Induction of Stable Anisotropy in Liquid Crystalline Photo-addressable PPI Dendrimers. <i>Chemistry of Materials</i> , 2007, 19, 235-246.	6.7	29
33	New one- and two-dimensional 4H-pyranylidene NLO-phores. <i>Tetrahedron Letters</i> , 2009, 50, 2920-2924.	1.4	29
34	Synthesis and Electrochemical and Theoretical Studies of V-Shaped Donor-Acceptor Hexaazatriphenylene Derivatives for Second Harmonic Generation. <i>Journal of Organic Chemistry</i> , 2010, 75, 7542-7549.	3.2	26
35	Spectroscopic properties of Cr ³⁺ in RbCdF ₃ . <i>Journal of Physics Condensed Matter</i> , 1991, 3, 8281-8288.	1.8	25
36	Second order NLO properties of novel dicyanovinylthiophene derived chromophores. <i>Tetrahedron Letters</i> , 1997, 38, 6107-6110.	1.4	25

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37	Synthesis, characterization and optical properties of merocyanines derived from malononitrile dimer. <i>Tetrahedron Letters</i> , 2007, 48, 6539-6542.	1.4	25
38	Push-pull systems bearing a quinoid/aromatic thieno[3,2-b]thiophene moiety: synthesis, ground state polarization and second-order nonlinear properties. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 6338.	2.8	25
39	Efficient second-order nonlinear optical chromophores based on dithienothiophene and thienothiophene bridges. <i>Tetrahedron</i> , 2013, 69, 3919-3926.	1.9	25
40	EPR study of Ni ²⁺ centers in CsCaF ₃ . <i>Physical Review B</i> , 1994, 49, 1039-1047.	3.2	24
41	Dithienopyrrole as a Rigid Alternative to the Bithiophene π -Relay in Chromophores with Second-Order Nonlinear Optical Properties. <i>Chemistry - an Asian Journal</i> , 2015, 10, 188-197.	3.3	24
42	Synthesis and nonlinear optical properties of side chain liquid crystalline polymers containing azobenzene push-pull chromophores. <i>Journal of Polymer Science Part A</i> , 2010, 48, 232-242.	2.3	23
43	Understanding Optoelectronic Properties of Cyano-Terminated Oligothiophenes in the Context of Intramolecular Charge Transfer. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10573-10585.	2.6	23
44	Polarized photoluminescence and order parameters of <i>in situ</i> -photopolymerized liquid crystal films. <i>Journal of Applied Physics</i> , 2000, 87, 274-279.	2.5	21
45	Pyranilidene/thienothiophene-based organic sensitizers for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2019, 161, 205-213.	3.7	21
46	Optical properties of ZnF ₂ -x,CdF ₂ glasses doped with 4f ions. <i>Materials Research Bulletin</i> , 1991, 26, 741-748.	5.2	20
47	Highly polarized dithiafulvenes: synthesis and nonlinear optical properties. <i>Tetrahedron Letters</i> , 2006, 47, 661-664.	1.4	19
48	Synthesis, characterization, and optical properties of novel 1,3-dithiole donor-based chromophores. <i>RSC Advances</i> , 2013, 3, 2953.	3.6	19
49	Isophorone- and pyran-containing NLO-chromophores: a comparative study. <i>Tetrahedron Letters</i> , 2010, 51, 3662-3665.	1.4	18
50	Photoluminescence of Ni ²⁺ ions in RbCdF ₃ and RbCaF ₃ . <i>Journal of Luminescence</i> , 1991, 48-49, 569-573.	3.1	16
51	Mesomorphic and Orientational Study of Materials Processed by In Situ Photopolymerization of Reactive Liquid Crystals. <i>Chemistry of Materials</i> , 1999, 11, 2804-2812.	6.7	16
52	Surface relief gratings induced by a nanosecond pulse in a liquid-crystalline azo-polymethacrylate. <i>Applied Physics Letters</i> , 2005, 87, 201914.	3.3	15
53	Red light induced holographic storage in an azobenzene polymethacrylate at room temperature. <i>Optical Materials</i> , 2006, 28, 480-487.	3.6	15
54	Efficient optical parametric generation in an organomineral crystal. <i>Applied Physics Letters</i> , 1995, 66, 2019-2021.	3.3	14

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55	Cycloaddition reactions of polyenic donor-acceptor systems with an electron-rich alkyne: access to new chromophores with second-order optical nonlinearities. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8684.	2.8	14
56	Influence of thiazole regioisomerism on second-order nonlinear optical chromophores. <i>Tetrahedron</i> , 2012, 68, 6427-6437.	1.9	14
57	Dye-sensitized-solar-cells based on calix[4]arene scaffolds. <i>RSC Advances</i> , 2015, 5, 90667-90670.	3.6	14
58	Earth-abundant non-toxic perovskite nanocrystals for solution processed solar cells. <i>Materials Advances</i> , 2021, 2, 4140-4151.	5.4	14
59	Spectroscopic properties of Ni ²⁺ in RbCaF ₃ and RbCdF ₃ . <i>Journal of Physics Condensed Matter</i> , 1993, 5, 747-756.	1.8	13
60	Benzothiazolium- π -thiazole-dicyanomethanides: new nonlinear optical chromophores. <i>Tetrahedron Letters</i> , 2010, 51, 6863-6866.	1.4	13
61	New efficient tert-butylidiphenyl-4H-pyranylidene sensitizers for DSSCs. <i>RSC Advances</i> , 2015, 5, 106706-106709.	3.6	13
62	DSSCs based on aniline derivatives functionalized with a tert-butyl dimethylsilyl group and the effect of the π -spacer. <i>Dyes and Pigments</i> , 2018, 148, 61-71.	3.7	13
63	THE TETRAGONAL TO ORTHORHOMBIC STRUCTURAL PHASE TRANSITION IN RbCaF ₃ SINGLE CRYSTALS: INFLUENCE ON THE LOCAL ENVIRONMENT OF DIFFERENT NICKEL PROBES. <i>Journal of Physics and Chemistry of Solids</i> , 1997, 58, 881-892.	4.0	12
64	Optical properties of Mn ²⁺ ions in solid solutions of fluorite-type crystals. <i>Journal of Luminescence</i> , 1999, 81, 53-60.	3.1	12
65	Characterization of Nematic Liquid Crystal at Microwave Frequencies Using Split-Cylinder Resonator Method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 2812-2820.	4.6	12
66	Push-pull thiophene chromophores for electro-optic applications: from 1D linear to π^2 -branched structures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2283-2294.	2.8	12
67	Enhancing the temporal stability of DSSCs with novel vinylpyrimidine anchoring and accepting group. <i>Dyes and Pigments</i> , 2022, 203, 110310.	3.7	12
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	Multichromophoric sensitizers based on calix[4]arene scaffold and 4 H-pyranylidene moiety for DSSCs application. <i>Dyes and Pigments</i> , 2017, 136, 505-514.	3.7	11
70	Chemical Postdeposition Treatments To Improve the Adhesion of Carbon Nanotube Films on Plastic Substrates. <i>ACS Omega</i> , 2019, 4, 2804-2811.	3.5	11
71	Influence of UV irradiation on the blue and red light photoinduced processes in azobenzene polyesters. <i>Polymer</i> , 2004, 45, 6003-6012.	3.8	10
72	Multichromophoric Calix[4]arenes: Effect of Interchromophore Distances on Linear and Nonlinear Optical Properties. <i>ChemPhysChem</i> , 2012, 13, 3204-3209.	2.1	10

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73	Using functionalized nonlinear optical chromophores to prepare NLO-active polycarbonate films. <i>Dyes and Pigments</i> , 2015, 119, 30-40.	3.7	10
74	Photoactivity improvement of TiO ₂ electrodes by thin hole transport layers of reduced graphene oxide. <i>Electrochimica Acta</i> , 2019, 298, 279-287.	5.2	10
75	Phonon structure of Cr ³⁺ photoluminescence in chromium doped MAF ₃ (M = Cd, Ca; A = Rb, Cs) crystals. <i>Journal of Luminescence</i> , 1995, 63, 289-296.	3.1	9
76	Fast and stable recording of birefringence and holographic gratings in an azo-polymethacrylate using a single nanosecond light pulse. <i>Journal of Chemical Physics</i> , 2005, 123, 204706.	3.0	9
77	Modification of the electronic properties of the Ñ-spacer of chromophores linked to calix[4]arene platform for DSSCs applications. <i>Dyes and Pigments</i> , 2019, 164, 43-53.	3.7	9
78	A novel Ñf-linkage to dianchor dyes for efficient dyes sensitized solar cells: 3-methyl-1,1-cyclohexane. <i>Dyes and Pigments</i> , 2020, 173, 107945.	3.7	9
79	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. <i>Nanomaterials</i> , 2021, 11, 1435.	4.1	9
80	EPR study of Ni ³⁺ centers in CsCaF ₃ . <i>Solid State Communications</i> , 1994, 90, 13-16.	1.9	8
81	Characterization of Nematic Liquid Crystals at Microwave Frequencies. <i>Crystals</i> , 2020, 10, 1106.	2.2	8
82	Synthesis and nonlinear optical properties of chromophores for photorefractive polymer materials. <i>Tetrahedron</i> , 2009, 65, 4513-4520.	1.9	7
83	Matrix Order Influence on the Nonlinear Optical Properties of Dispersed Chromophore Azopolymer Systems. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 776-783.	2.2	7
84	4H-pyranilidene organic dyes for dye-sensitized solar cells: Twisted structures towards enhanced power conversion efficiencies. <i>Solar Energy</i> , 2019, 193, 74-84.	6.1	7
85	Twisted One-Dimensional Charge Transfer and Related Y-Shaped Chromophores with a 4H-Pyranilidene Donor: Synthesis and Optical Properties. <i>Journal of Organic Chemistry</i> , 2021, 86, 3152-3163.	3.2	7
86	Synthesis, crystal structure and second-order nonlinear optical properties of the trinuclear palladium orthometalated complex [(1/4 3-S)(1/4 3-OH)Pd ₃ (C ^N) ₃] (HC ^N =p-â€C ₆ H ₄ â€CHNâ€C ₆ H ₄ â€NO ₂ -p). <i>Journal of Organometallic Chemistry</i> , 2010, 695, 437-440.	1.8	6
87	Difunctionalized dyes for DSSCs based on two different scaffolds: p-tert-butylcalix[4]arene or isophthalic acid. <i>Dyes and Pigments</i> , 2020, 182, 108530.	3.7	6
88	V-shaped pyranilidene/triphenylamine-based chromophores with enhanced photophysical, electrochemical and nonlinear optical properties. <i>Materials Advances</i> , 2021, 2, 4255-4263.	5.4	6
89	EPR and photoluminescence of Cr ³⁺ ions in CsCdF ₃ and CsCaF ₃ . <i>Radiation Effects and Defects in Solids</i> , 1995, 135, 157-161.	1.2	5
90	Reversible change of birefringence sign by optical and thermal processes in an azobenzene polymethacrylate. <i>Applied Physics Letters</i> , 2005, 86, 021907.	3.3	5

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91	Differential Behavior of Amino-Imino Constitutional Isomers in Nonlinear Optical Processes. ChemPhysChem, 2010, 11, 912-919.	2.1	5
92	Cubic-to-tetragonal structural phase transition in $Rb_{1-x}Cs_xCaF_3$ solid solutions: Thermal expansion and EPR studies. Physical Review B, 1997, 55, 8148-8154.	3.2	3
93	Non-linear Optical Properties of Liquid Crystalline Azobenzene Polymeric Films. Molecular Crystals and Liquid Crystals, 2004, 411, 467-475.	0.9	3
94	Single waveguide silicon-organic hybrid modulator. Advances in Radio Science, 0, 15, 141-147.	0.7	3
95	Effect of supporting electrolyte concentration on one-step electrodeposited $CuInS_2$ films for $ZnS/CuInS_2$ solar cell applications. Journal of Solid State Electrochemistry, 2020, 24, 1405-1414.	2.5	3
96	Optical properties of 3d-ions doped $RbCdF_3$. Radiation effects. Radiation Effects and Defects in Solids, 1991, 119-121, 901-906.	1.2	2
97	Spectroscopic properties of Mn^{2+} ions in mixed fluoroperovskites. Radiation Effects and Defects in Solids, 1995, 135, 163-167.	1.2	2
98	Local disorder and structural phase transition in $Rb_{1-x}Cs_xCaF_3:Ni^{2+}$ crystals studied by EPR. Journal of Physics and Chemistry of Solids, 1998, 59, 981-988.	4.0	2
99	1,3-Dithiole Based Quinoid Systems: Multiply Proaromatic NLO-Phores. Phosphorus, Sulfur and Silicon and the Related Elements, 2005, 180, 1473-1474.	1.6	2
100	Tailoring Linear and Nonlinear Optical Properties of a Side-Chain Liquid Crystalline Azo-Polymethacrylate. Macromolecular Chemistry and Physics, 2010, 211, 2218-2225.	2.2	2
101	Influence of the host lattice on the photoluminescence of Ni^{2+} ions in $Rb_{1-x}Cs_xCaF_3$ and $RbCa_{1-x}Cd_xF_3$ crystals. Journal of Applied Physics, 1997, 82, 5121-5125.	2.5	1
102	NLO properties of dithienothiophene-based chromophores: a comparison study between the donor/donor and donor/acceptor substitution patterns. , 2007, , .		1
103	Novel NLO-phores with Proaromatic Donor and Acceptor Groups.. ChemInform, 2003, 34, no.	0.0	0