Antonio Carella

List of Publications by Year
in descending order

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75	1,935	236925	276875
papers	citations	25 h-index	41 g-index

75	75	75	2433
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel Thienyl DPP derivatives Functionalized with Terminal Electronâ€Acceptor Groups: Synthesis, Optical Properties and OFET Performance. Chemistry - A European Journal, 2022, 28, .	3.3	15
2	Novel DPP derivatives functionalized with auxiliary electron-acceptor groups and characterized by narrow bandgap and ambipolar charge transport properties. Dyes and Pigments, 2021, 186, 109026.	3.7	11
3	Space-charge accumulation and band bending at conductive P3HT/PDIF-CN₂ interfaces investigated by scanning-Kelvin probe microscopy. Journal of Materials Chemistry C, 2021, 9, 17143-17151.	5.5	2
4	Hierarchy of Intermolecular Interactions and Selective Topochemical Reactivity in Different Polymorphs of Fused-Ring Heteroaromatics. Crystal Growth and Design, 2020, 20, 1229-1236.	3.0	13
5	Recent advances in eco-friendly and cost-effective materials towards sustainable dye-sensitized solar cells. Green Chemistry, 2020, 22, 7168-7218.	9.0	272
6	Nanocomposites of Nickel Oxide and Zirconia for the Preparation of Photocathodes with Improved Performance in p-Type Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2019, 166, D290-D300.	2.9	10
7	Sodium Hydroxide Pretreatment as an Effective Approach to Reduce the Dye/Holes Recombination Reaction in P-Type DSCs. Frontiers in Chemistry, 2019, 7, 99.	3.6	5
8	A new donor-acceptor crosslinkable l-shape chromophore for NLO applications. Journal of Molecular Structure, 2019, 1189, 21-27.	3.6	13
9	Evaluating the biological properties of synthetic 4-nitrophenyl functionalized benzofuran derivatives with telomeric DNA binding and antiproliferative activities. International Journal of Biological Macromolecules, 2019, 121, 77-88.	7.5	44
10	Crystal structures of butyl 2-amino-5-hydroxy-4-(4-nitrophenyl)benzofuran-3-carboxylate and 2-methoxyethyl 2-amino-5-hydroxy-4-(4-nitrophenyl)benzofuran-3-carboxylate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 880-887.	0.5	1
11	Effect of Sodium Hydroxide Pretreatment of NiO_x Cathodes on the Performance of Squaraineâ€Sensitized pâ€Type Dyeâ€Sensitized Solar Cells. ChemistrySelect, 2018, 3, 1066-1075.	1.5	10
12	Scanning Kelvin Probe Microscopy investigation of the contact resistances and charge mobility in n-type PDIF-CN2 thin-film transistors. Organic Electronics, 2018, 52, 206-212.	2.6	12
13	Effect of Sensitization on the Electrochemical Properties of Nanostructured NiO. Coatings, 2018, 8, 232.	2.6	7
14	Tuning optical and electronic properties in novel carbazole photosensitizers for p-type dye-sensitized solar cells. Electrochimica Acta, 2018, 292, 805-816.	5.2	67
15	Solid State Selection between Nearly Isoenergetic Tautomeric Forms Driven by Right Hydrogen-Bonding Pairing. Crystal Growth and Design, 2018, 18, 6293-6301.	3.0	7
16	Research Progress on Photosensitizers for DSSC. Frontiers in Chemistry, 2018, 6, 481.	3.6	202
17	New pyran-based dyes as efficient sensitizers of p-type dye-sensitized solar cells. Solar Energy, 2018, 169, 237-241.	6.1	18
18	Surface properties of nanostructured NiO undergoing electrochemical oxidation in 3-methoxy-propionitrile. Applied Surface Science, 2017, 403, 441-447.	6.1	26

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19	Electrochemical and Photoelectrochemical Properties of Screen-Printed Nickel Oxide Thin Films Obtained from Precursor Pastes with Different Compositions. Journal of the Electrochemical Society, 2017, 164, H137-H147.	2.9	45
20	KuQuinones as sensitizers for NiO based p-type dye-sensitized solar cells. New Journal of Chemistry, 2017, 41, 2769-2779.	2.8	30
21	Novel low bandgap phenothiazine functionalized DPP derivatives prepared by direct heteroarylation: Application in bulk heterojunction organic solar cells. Dyes and Pigments, 2017, 141, 169-178.	3.7	37
22	Effect of Alkyl Chain Length on the Sensitizing Action of Substituted Nonâ€Symmetric Squaraines for pâ€Type Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2017, 4, 2385-2397.	3.4	17
23	Limits on the use of cobalt sulfide as anode of p-type dye-sensitized solar cells. Journal Physics D: Applied Physics, 2017, 50, 215501.	2.8	8
24	First Examples of Pyran Based Colorants as Sensitizing Agents ofp-Type Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2017, 164, F1412-F1418.	2.9	13
25	Nanostructured Semiconductor Materials for Dye-Sensitized Solar Cells. Journal of Nanomaterials, 2017, 2017, 1-31.	2.7	93
26	Nanostructured p-Type Semiconductor Electrodes and Photoelectrochemistry of Their Reduction Processes. Energies, 2016, 9, 373.	3.1	46
27	Beneficial Effect of Electron-Withdrawing Groups on the Sensitizing Action of Squaraines for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 16340-16353.	3.1	48
28	Biostability enhancement of oil core â€" polysaccharide multilayer shell via photoinitiator free thiol-ene â€˜clickâ€™ reaction. Colloids and Surfaces B: Biointerfaces, 2016, 142, 281-289.	5.0	16
29	Adsorption Behavior of I₃^{â€“} and I^{â€“} Ions at a Nanoporous NiO/Acetonitrile Interface Studied by X-ray Photoelectron Spectroscopy. Langmuir, 2016, 32, 11540-11550.	3.5	34
30	Novel pyran based dyes for application in dye sensitized solar cells. Dyes and Pigments, 2016, 133, 395-405.	3.7	21
31	Tuning optical absorption in pyran derivatives for DSSC. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 79-89.	3.9	24
32	Contact-resistance effects in PDI8-CN 2 n-type thin-film transistors investigated by Kelvin-probe potentiometry. Organic Electronics, 2016, 28, 299-305.	2.6	29
33	A topotactic transition in a liquid crystal compound. CrystEngComm, 2015, 17, 8864-8869.	2.6	9
34	Proton induced tautomeric switching in N-rich aromatics with tunable acid-base character. Journal of Molecular Structure, 2015, 1093, 119-124.	3.6	13
35	Rigid chain ribbonâ€like metallopolymers. Journal of Polymer Science Part A, 2014, 52, 2412-2421.	2.3	5
36	Synthesis of highly regioregular poly[3-(4-alkoxyphenyl)-thiophene]s by oxidative catalysis using copper complexes. Journal of Polymer Science Part A, 2013, 51, 4351-4360.	2.3	23

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37	Synthesis and thermotropic behavior of cholesteric mixtures containing metallomesogen Cu(II), Ni(II), Pd(II) and vanadyl complexes. Inorganic Chemistry Communication, 2013, 38, 135-138.	3.9	4
38	Bias stress effects investigated in charge depletion and accumulation regimes for inkjet-printed perylene diimide organic transistors. Synthetic Metals, 2013, 176, 121-127.	3.9	8
39	Short Ï€-Stacking in N-Rich Ionic Aromatic Compounds. Crystal Growth and Design, 2013, 13, 3255-3260.	3.0	17
40	Dipentyl 2,6-diaminobenzo[1,2-b:4,5-bâ€²]difuran-3,7-dicarboxylate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1526-o1527.	0.2	1
41	N,Nâ€²-Dihydroxybenzene-1,2:4,5-tetracarboximide dihydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1152-o1153.	0.2	1
42	New Approach for Analyzing the Vertical Structure of Polymer Thin Films Based on Surface-Enhanced Raman Scattering. Macromolecules, 2012, 45, 1476-1482.	4.8	6
43	Perylene diimides functionalized with N-thiadiazole substituents: Synthesis and electronic properties in OFET devices. Organic Electronics, 2012, 13, 2083-2093.	2.6	39
44	Investigation on bias stress effects in n-type PDI8-CN2 thin-film transistors. Organic Electronics, 2012, 13, 2281-2289.	2.6	27
45	Quadratic nonlinear optical and preliminary piezoelectric investigation of crosslinked samples obtained from a liquid chromophore. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 650-655.	2.1	13
46	Tuning Wavefunction Mixing in Pushâ€“Pull Molecules: From Neutral to Zwitterionic Compounds. European Journal of Organic Chemistry, 2012, 2012, 2980-2989.	2.4	28
47	Benzodifuroxazinones, a new class of heteroacene molecules for possible applications in organic electronics: Synthesis, electronic properties and crystal structure. Dyes and Pigments, 2012, 95, 116-125.	3.7	19
48	Cisâ€“trans isomerization and optical laser writing in new heterocycle based azo-polyurethanes. Optical Materials, 2012, 34, 724-728.	3.6	7
49	Outstanding Poling Stability of a New Cross-Linked Nonlinear Optical (NLO) Material from a Low Molecular Weight Chromophore. Journal of Physical Chemistry B, 2011, 115, 11993-12000.	2.6	26
50	Two-Photon Induced Self-Structuring of Polymeric Films Based on Y-Shape Azobenzene Chromophore. Journal of Physical Chemistry C, 2011, 115, 13566-13570.	3.1	33
51	Supramolecular synthons in fluorinated and nitrogen-rich ortho-diaminotriazoles. Structural Chemistry, 2011, 22, 1095-1103.	2.0	20
52	High nonlinear optical response in 4-chlorothiazole-based azo dyes. Dyes and Pigments, 2011, 88, 290-295.	3.7	47
53	Two-photons micro-structuring of a polymer containing Y-shape azo-chromophores. , 2011, , .		0
54	Realization of submicrometer structures by a confocal system on azopolymer films containing photoluminescent chromophores. Journal of Applied Physics, 2010, 107, .	2.5	23

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55	Poly(3-alkoxyphenylthiophenes) For VOCs Detection. , 2010, , .		0
56	Competitive H-bonding synthons in organic hydrazides. CrystEngComm, 2010, 12, 1186-1193.	2.6	16
57	Two-photon patterning of a polymer containing Y-shaped azochromophores. Applied Physics Letters, 2009, 94, 011115.	3.3	26
58	Covalent attachment of chromophores to chlorinated copolymers for optical waveguides: Synthesis and optical characterization. Polymer, 2009, 50, 1645-1653.	3.8	9
59	Dependence on substrate temperature of the conformation and structure of a poly[3â€(4â€octyloxyphenyl)thiophene] (POOPT) thin film obtained by matrix assisted pulsed laser evaporation (MAPLE). Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2166-2170.	1.8	3
60	High quantum yield photoluminescence of new polyamides containing oligoâ€PPV amino derivatives and related oligomers. Journal of Polymer Science Part A, 2009, 47, 2677-2689.	2.3	30
61	Substrate temperature dependence of the structure of polythiophene thin films obtained by Matrix Assisted Pulsed Laser Evaporation (MAPLE). EPJ Applied Physics, 2009, 48, 10505.	0.7	9
62	Large Second-Order NLO Activity in Poly(4-vinylpyridine) Grafted with PdII and CuII Chromophoric Complexes with Tridentate Bent Ligands Containing Heterocycles. European Journal of Inorganic Chemistry, 2008, 2008, 1846-1853.	2.0	25
63	Direct current and alternating current electrical transport properties of regioregular poly[3-(4-alkoxyphenyl)-thiophenes]. Journal of Applied Physics, 2007, 102, 093712.	2.5	14
64	NLO Behavior of Polymers Containing Yâ€Shaped Chromophores. Macromolecular Chemistry and Physics, 2007, 208, 1900-1907.	2.2	21
65	Crosslinkable organic glasses with quadratic nonlinear optical activity. Organic Electronics, 2007, 8, 57-62.	2.6	30
66	Regioregular poly[3-(4-alkoxyphenyl)thiophene]s. Journal of Polymer Science Part A, 2007, 45, 1758-1770.	2.3	28
67	Nonlinear optical properties of regioregular main-chain polyesters. Journal of Polymer Science Part A, 2007, 45, 2719-2725.	2.3	29
68	Different nonlinear optical performances of polymers containing benzimidazole chromophores. Optical Materials, 2007, 30, 473-477.	3.6	17
69	Double-helix pattern in a model compound of non-linear optical polymers. Acta Crystallographica Section C: Crystal Structure Communications, 2006, 62, o531-o533.	0.4	3
70	Novel High Glass Transition Temperature Polyurethanes Functionalized with Efficient CT Chromophores for Second Order NLO Applications. Molecular Crystals and Liquid Crystals, 2006, 446, 161-174.	0.9	9
71	Polymethacrylate Copolymers Containing 4,5-Dicyanoimidazole-Based Chromophores and their Nonlinear Optical Behavior. Macromolecular Chemistry and Physics, 2005, 206, 1399-1404.	2.2	17
72	Tuning Second-Order Optical Nonlinearities in Push-Pull Benzimidazoles. European Journal of Organic Chemistry, 2004, 2004, 2620-2626.	2.4	48

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73	Second Order Nonlinear Optical Performances of Polymers Containing Imidazole and Benzimidazole Chromophores. Macromolecular Chemistry and Physics, 2004, 205, 1948-1954.	2.2	34
74	New polyurethane based push - pull chromophores functionalised polymers for NLO applications. , 0, , .		0
75	Effect of chalcogen bonding on the packing and coordination geometry in hybrid organicâ€“inorganic Cu(<scp>ii</scp>) networks. CrystEngComm, 0, , .	2.6	2