

Antonio Carella

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8503056/publications.pdf>

Version: 2024-02-01

75
papers

1,935
citations

236925

25
h-index

276875

41
g-index

75
all docs

75
docs citations

75
times ranked

2433
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in eco-friendly and cost-effective materials towards sustainable dye-sensitized solar cells. <i>Green Chemistry</i> , 2020, 22, 7168-7218.	9.0	272
2	Research Progress on Photosensitizers for DSSC. <i>Frontiers in Chemistry</i> , 2018, 6, 481.	3.6	202
3	Nanostructured Semiconductor Materials for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-31.	2.7	93
4	Tuning optical and electronic properties in novel carbazole photosensitizers for p-type dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 292, 805-816.	5.2	67
5	Tuning Second-Order Optical Nonlinearities in Push-Pull Benzimidazoles. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 2620-2626.	2.4	48
6	Beneficial Effect of Electron-Withdrawing Groups on the Sensitizing Action of Squaraines for n-Type Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16340-16353.	3.1	48
7	High nonlinear optical response in 4-chlorothiazole-based azo dyes. <i>Dyes and Pigments</i> , 2011, 88, 290-295.	3.7	47
8	Nanostructured p-Type Semiconductor Electrodes and Photoelectrochemistry of Their Reduction Processes. <i>Energies</i> , 2016, 9, 373.	3.1	46
9	Electrochemical and Photoelectrochemical Properties of Screen-Printed Nickel Oxide Thin Films Obtained from Precursor Pastes with Different Compositions. <i>Journal of the Electrochemical Society</i> , 2017, 164, H137-H147.	2.9	45
10	Evaluating the biological properties of synthetic 4-nitrophenyl functionalized benzofuran derivatives with telomeric DNA binding and antiproliferative activities. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 77-88.	7.5	44
11	Perylene diimides functionalized with N-thiadiazole substituents: Synthesis and electronic properties in OFET devices. <i>Organic Electronics</i> , 2012, 13, 2083-2093.	2.6	39
12	Novel low bandgap phenothiazine functionalized DPP derivatives prepared by direct heteroarylation: Application in bulk heterojunction organic solar cells. <i>Dyes and Pigments</i> , 2017, 141, 169-178.	3.7	37
13	Second Order Nonlinear Optical Performances of Polymers Containing Imidazole and Benzimidazole Chromophores. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1948-1954.	2.2	34
14	Adsorption Behavior of I^{-} and I_3^{-} Ions at a Nanoporous NiO/Acetonitrile Interface Studied by X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2016, 32, 11540-11550.	3.5	34
15	Two-Photon Induced Self-Structuring of Polymeric Films Based on Y-Shape Azobenzene Chromophore. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13566-13570.	3.1	33
16	Crosslinkable organic glasses with quadratic nonlinear optical activity. <i>Organic Electronics</i> , 2007, 8, 57-62.	2.6	30
17	High quantum yield photoluminescence of new polyamides containing oligo-PPV amino derivatives and related oligomers. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2677-2689.	2.3	30
18	KuQuinones as sensitizers for NiO based p-type dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 2769-2779.	2.8	30

#	ARTICLE	IF	CITATIONS
19	Nonlinear optical properties of regioregular main-chain polyesters. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2719-2725.	2.3	29
20	Contact-resistance effects in PDI8-CN 2 n-type thin-film transistors investigated by Kelvin-probe potentiometry. <i>Organic Electronics</i> , 2016, 28, 299-305.	2.6	29
21	Regioregular poly[3-(4-alkoxyphenyl)thiophene]s. <i>Journal of Polymer Science Part A</i> , 2007, 45, 1758-1770.	2.3	28
22	Tuning Wavefunction Mixing in Push-Pull Molecules: From Neutral to Zwitterionic Compounds. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 2980-2989.	2.4	28
23	Investigation on bias stress effects in n-type PDI8-CN2 thin-film transistors. <i>Organic Electronics</i> , 2012, 13, 2281-2289.	2.6	27
24	Two-photon patterning of a polymer containing Y-shaped azochromophores. <i>Applied Physics Letters</i> , 2009, 94, 011115.	3.3	26
25	Outstanding Poling Stability of a New Cross-Linked Nonlinear Optical (NLO) Material from a Low Molecular Weight Chromophore. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11993-12000.	2.6	26
26	Surface properties of nanostructured NiO undergoing electrochemical oxidation in 3-methoxy-propionitrile. <i>Applied Surface Science</i> , 2017, 403, 441-447.	6.1	26
27	Large Second-Order NLO Activity in Poly(4-vinylpyridine) Grafted with PdII and CuII Chromophoric Complexes with Tridentate Bent Ligands Containing Heterocycles. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1846-1853.	2.0	25
28	Tuning optical absorption in pyran derivatives for DSSC. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 321, 79-89.	3.9	24
29	Realization of submicrometer structures by a confocal system on azopolymer films containing photoluminescent chromophores. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	23
30	Synthesis of highly regioregular poly[3-(4-alkoxyphenyl)-thiophene]s by oxidative catalysis using copper complexes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4351-4360.	2.3	23
31	NLO Behavior of Polymers Containing Y-Shaped Chromophores. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1900-1907.	2.2	21
32	Novel pyran based dyes for application in dye sensitized solar cells. <i>Dyes and Pigments</i> , 2016, 133, 395-405.	3.7	21
33	Supramolecular synthons in fluorinated and nitrogen-rich ortho-diaminotriazoles. <i>Structural Chemistry</i> , 2011, 22, 1095-1103.	2.0	20
34	Benzodifuroxazinones, a new class of heteroacene molecules for possible applications in organic electronics: Synthesis, electronic properties and crystal structure. <i>Dyes and Pigments</i> , 2012, 95, 116-125.	3.7	19
35	New pyran-based dyes as efficient sensitizers of p-type dye-sensitized solar cells. <i>Solar Energy</i> , 2018, 169, 237-241.	6.1	18
36	Polymethacrylate Copolymers Containing 4,5-Dicyanoimidazole-Based Chromophores and their Nonlinear Optical Behavior. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1399-1404.	2.2	17

#	ARTICLE	IF	CITATIONS
37	Different nonlinear optical performances of polymers containing benzimidazole chromophores. <i>Optical Materials</i> , 2007, 30, 473-477.	3.6	17
38	Short π -Stacking in N-Rich Ionic Aromatic Compounds. <i>Crystal Growth and Design</i> , 2013, 13, 3255-3260.	3.0	17
39	Effect of Alkyl Chain Length on the Sensitizing Action of Substituted Non-Symmetric Squaraines for p-Type Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , 2017, 4, 2385-2397.	3.4	17
40	Competitive H-bonding synthons in organic hydrazides. <i>CrystEngComm</i> , 2010, 12, 1186-1193.	2.6	16
41	Biostability enhancement of oil core " polysaccharide multilayer shell via photoinitiator free thiol-ene "click" reaction. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 281-289.	5.0	16
42	Novel Thienyl DPP derivatives Functionalized with Terminal Electron-Acceptor Groups: Synthesis, Optical Properties and OFET Performance. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	15
43	Direct current and alternating current electrical transport properties of regioregular poly[3-(4-alkoxyphenyl)-thiophenes]. <i>Journal of Applied Physics</i> , 2007, 102, 093712.	2.5	14
44	Quadratic nonlinear optical and preliminary piezoelectric investigation of crosslinked samples obtained from a liquid chromophore. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 650-655.	2.1	13
45	Proton induced tautomeric switching in N-rich aromatics with tunable acid-base character. <i>Journal of Molecular Structure</i> , 2015, 1093, 119-124.	3.6	13
46	First Examples of Pyran Based Colorants as Sensitizing Agents of p-Type Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1412-F1418.	2.9	13
47	A new donor-acceptor crosslinkable I-shape chromophore for NLO applications. <i>Journal of Molecular Structure</i> , 2019, 1189, 21-27.	3.6	13
48	Hierarchy of Intermolecular Interactions and Selective Topochemical Reactivity in Different Polymorphs of Fused-Ring Heteroaromatics. <i>Crystal Growth and Design</i> , 2020, 20, 1229-1236.	3.0	13
49	Scanning Kelvin Probe Microscopy investigation of the contact resistances and charge mobility in n-type PDIF-CN2 thin-film transistors. <i>Organic Electronics</i> , 2018, 52, 206-212.	2.6	12
50	Novel DPP derivatives functionalized with auxiliary electron-acceptor groups and characterized by narrow bandgap and ambipolar charge transport properties. <i>Dyes and Pigments</i> , 2021, 186, 109026.	3.7	11
51	Effect of Sodium Hydroxide Pretreatment of NiO Cathodes on the Performance of Squaraine-Sensitized p-Type Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2018, 3, 1066-1075.	1.5	10
52	Nanocomposites of Nickel Oxide and Zirconia for the Preparation of Photocathodes with Improved Performance in p-Type Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, D290-D300.	2.9	10
53	Novel High Glass Transition Temperature Polyurethanes Functionalized with Efficient CT Chromophores for Second Order NLO Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 446, 161-174.	0.9	9
54	Covalent attachment of chromophores to chlorinated copolymers for optical waveguides: Synthesis and optical characterization. <i>Polymer</i> , 2009, 50, 1645-1653.	3.8	9

#	ARTICLE	IF	CITATIONS
55	Substrate temperature dependence of the structure of polythiophene thin films obtained by Matrix Assisted Pulsed Laser Evaporation (MAPLE). <i>EPJ Applied Physics</i> , 2009, 48, 10505.	0.7	9
56	A topotactic transition in a liquid crystal compound. <i>CrystEngComm</i> , 2015, 17, 8864-8869.	2.6	9
57	Bias stress effects investigated in charge depletion and accumulation regimes for inkjet-printed perylene diimide organic transistors. <i>Synthetic Metals</i> , 2013, 176, 121-127.	3.9	8
58	Limits on the use of cobalt sulfide as anode of p-type dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 215501.	2.8	8
59	Cis \rightarrow trans isomerization and optical laser writing in new heterocycle based azo-polyurethanes. <i>Optical Materials</i> , 2012, 34, 724-728.	3.6	7
60	Effect of Sensitization on the Electrochemical Properties of Nanostructured NiO. <i>Coatings</i> , 2018, 8, 232.	2.6	7
61	Solid State Selection between Nearly Isoenergetic Tautomeric Forms Driven by Right Hydrogen-Bonding Pairing. <i>Crystal Growth and Design</i> , 2018, 18, 6293-6301.	3.0	7
62	New Approach for Analyzing the Vertical Structure of Polymer Thin Films Based on Surface-Enhanced Raman Scattering. <i>Macromolecules</i> , 2012, 45, 1476-1482.	4.8	6
63	Rigid chain ribbon-like metallopolymers. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2412-2421.	2.3	5
64	Sodium Hydroxide Pretreatment as an Effective Approach to Reduce the Dye/Holes Recombination Reaction in P-Type DSCs. <i>Frontiers in Chemistry</i> , 2019, 7, 99.	3.6	5
65	Synthesis and thermotropic behavior of cholesteric mixtures containing metallomesogen Cu(II), Ni(II), Pd(II) and vanadyl complexes. <i>Inorganic Chemistry Communication</i> , 2013, 38, 135-138.	3.9	4
66	Double-helix pattern in a model compound of non-linear optical polymers. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2006, 62, o531-o533.	0.4	3
67	Dependence on substrate temperature of the conformation and structure of a poly[3-(4-octyloxyphenyl)thiophene] (POOPT) thin film obtained by matrix assisted pulsed laser evaporation (MAPLE). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2166-2170.	1.8	3
68	Space-charge accumulation and band bending at conductive P3HT/PDIF-CN ₂ interfaces investigated by scanning-Kelvin probe microscopy. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17143-17151.	5.5	2
69	Effect of chalcogen bonding on the packing and coordination geometry in hybrid organic-inorganic Cu(<i>sc</i>) networks. <i>CrystEngComm</i> , 0, , .	2.6	2
70	Dipentyl 2,6-diaminobenzo[1,2-b:4,5-b ²]difuran-3,7-dicarboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o1526-o1527.	0.2	1
71	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. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 880-887.	0.5	1
72	N,N ² -Dihydroxybenzene-1,2:4,5-tetracarboximide dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o1152-o1153.	0.2	1

#	ARTICLE	IF	CITATIONS
73	New polyurethane based push - pull chromophores functionalised polymers for NLO applications. , 0 , .		0
74	Poly(3-alkoxyphenylthiophenes) For VOCs Detection. , 2010, , .		0
75	Two-photons micro-structuring of a polymer containing Y-shape azo-chromophores. , 2011, , .		0