Roberto Centore

List of Publications by Year
in descending order

117 papers	2,059 citations	236925 25 h-index	302126 39 g-index
117 all docs	117 docs citations	117 times ranked	2428 citing authors

#	Article	IF	Citations
1	Research Progress on Photosensitizers for DSSC. Frontiers in Chemistry, 2018, 6, 481.	3.6	202
2	Isospecific Styrene Polymerization by Chiral Titanium Complexes That Contain a Tetradentate [OSSO]-Type Bis(phenolato) Ligand. Organometallics, 2005, 24, 2971-2982.	2.3	121
3	Neutral and Cationic Heteroscorpionate Aluminum Complexes:Â Synthesis, Structure, and Ring-Opening Polymerization of Îµ-Caprolactone. Organometallics, 2006, 25, 266-274.	2.3	99
4	Strong and Anomalous Thermal Expansion Precedes the Thermosalient Effect in Dynamic Molecular Crystals. Scientific Reports, 2016, 6, 29610.	3.3	70
5	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
6	The Anti-Proliferative Effect of L-Carnosine Correlates with a Decreased Expression of Hypoxia Inducible Factor 1 alpha in Human Colon Cancer Cells. PLoS ONE, 2014, 9, e96755.	2.5	51
7	Tuning Second-Order Optical Nonlinearities in Push-Pull Benzimidazoles. European Journal of Organic Chemistry, 2004, 2004, 2620-2626.	2.4	48
8	A series of compounds forming polar crystals and showing single-crystal-to-single-crystal transitions between polar phases. CrystEngComm, 2012, 14, 2645.	2.6	45
9	S-allyl-3-(2-pyridyl-methylene)dithiocarbazate ligand and its manganese(II), cobalt(III) and nickel(II) complexes. Inorganica Chimica Acta, 2011, 371, 36-41.	2.4	43
10	Synthesis, X-ray structure, spectroscopic properties and DFT studies of some dithiocarbazate complexes of nickel(II). Journal of Molecular Structure, 2013, 1031, 180-185.	3.6	42
11	Perylene diimides functionalized with N-thiadiazole substituents: Synthesis and electronic properties in OFET devices. Organic Electronics, 2012, 13, 2083-2093.	2.6	39
12	Onâ€“Off Mechano-responsive Switching of ESIPT Luminescence in Polymorphic N-Salicylidene-4-amino-2-methylbenzotriazole. Crystal Growth and Design, 2017, 17, 5517-5523.	3.0	39
13	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
14	Titanium Monoamidinateâ^'MAO Catalysts:Â Some Information about Active Species and Stereochemical Polymerization Mechanisms. Macromolecules, 2003, 36, 5451-5458.	4.8	35
15	Second Order Nonlinear Optical Performances of Polymers Containing Imidazole and Benzimidazole Chromophores. Macromolecular Chemistry and Physics, 2004, 205, 1948-1954.	2.2	34
16	Nickel(II) and copper(II) complexes of allyl 2-(thiophen-2-ylmethylene)hydrazinecarbodithioate: synthesis, X-ray crystal structures, and theoretical study. Journal of Coordination Chemistry, 2012, 65, 1569-1579.	2.2	31
17	Grafting Poly(4-vinylpyridine) with a Second-Order Nonlinear Optically Active Nickel(II) Chromophore. European Journal of Inorganic Chemistry, 2005, 2005, 2747-2753.	2.0	30
18	Crosslinkable organic glasses with quadratic nonlinear optical activity. Organic Electronics, 2007, 8, 57-62.	2.6	30

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19	Structural and theoretical analysis of some mesogenic azines containing strong electron donorâ€“acceptor groups. Journal of the Chemical Society Perkin Transactions II, 1997, , 79-84.	0.9	29
20	Nonlinear optical properties of regioregular main-chain polyesters. Journal of Polymer Science Part A, 2007, 45, 2719-2725.	2.3	29
21	NLO-active polymers containing triazolo-thiadiazole segments. Polymer, 2008, 49, 186-191.	3.8	29
22	Title is missing!. Structural Chemistry, 2002, 13, 27-36.	2.0	28
23	Tuning Wavefunction Mixing in Pushâ€“Pull Molecules: From Neutral to Zwitterionic Compounds. European Journal of Organic Chemistry, 2012, 2012, 2980-2989.	2.4	28
24	Polymers containing substituted 2-phenyl-benzoxazole side-chain groups: Synthesis and phase behavior. Journal of Polymer Science Part A, 1996, 34, 3203-3211.	2.3	27
25	Second harmonic generation in polymers containing a new azo chromophore based on phenylnitrobenzoxazole. Journal of Polymer Science Part A, 2002, 40, 1468-1475.	2.3	27
26	Tautomerism in the Fused Nâ€Rich TriÂazolotriazole Heterocyclic System. European Journal of Organic Chemistry, 2013, 2013, 3721-3728.	2.4	26
27	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
28	Polymerization of Propene and 1,3-Butadiene with Vanadyl(V) Monoamidinate Precatalysts and MAO or Dialkylaluminum Chloride Cocatalysts. Macromolecular Chemistry and Physics, 2004, 205, 1058-1063.	2.2	22
29	A General Synthesis of Bisâ€Î±â€acyloxyâ€1,4â€•and â€1,5â€diketones Through Catalytic Oxidative Opening of Acylated THF and THP Diols. European Journal of Organic Chemistry, 2013, 2013, 1781-1789.	2.4	22
30	NLO Behavior of Polymers Containing Yâ€Shaped Chromophores. Macromolecular Chemistry and Physics, 2007, 208, 1900-1907.	2.2	21
31	Survey of temperature, reaction time and ultrasound irradiation power on sonochemical synthesis of two new nanostructured lead(II) coordination supramolecule compounds. Ultrasonics Sonochemistry, 2017, 35, 81-91.	8.2	21
32	Supramolecular synthons in fluorinated and nitrogen-rich ortho-diaminotriazoles. Structural Chemistry, 2011, 22, 1095-1103.	2.0	20
33	Second Order Optical Nonlinearities of Copper(II) and Palladium(II) Complexes withN-Salicylidene-Nâ€²-aroylhydrazine Tridentate Ligands. European Journal of Inorganic Chemistry, 2004, 2004, 2467-2476.	2.0	19
34	Mixed ligand complexes of cadmium(II) and copper(II) dithiocarbazate: Synthesis, spectral characterization, X-ray crystal structure. Inorganica Chimica Acta, 2018, 471, 587-594.	2.4	19
35	Pushâ€“Pull Azoâ€Chromophores Containing Two Fused Pentatomic Heterocycles and Their Nonlinear Optical Properties. European Journal of Organic Chemistry, 2009, 2009, 3535-3543.	2.4	18
36	Nâ€Rich Fused Heterocyclic Systems: Synthesis, Structure, Optical and Electrochemical Characterization. European Journal of Organic Chemistry, 2016, 2016, 1772-1780.	2.4	18

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37	New pyran-based dyes as efficient sensitizers of p-type dye-sensitized solar cells. Solar Energy, 2018, 169, 237-241.	6.1	18
38	Polymethacrylate Copolymers Containing 4,5-Dicyanoimidazole-Based Chromophores and their Nonlinear Optical Behavior. Macromolecular Chemistry and Physics, 2005, 206, 1399-1404.	2.2	17
39	Different nonlinear optical performances of polymers containing benzimidazole chromophores. Optical Materials, 2007, 30, 473-477.	3.6	17
40	Short Ï€-Stacking in N-Rich Ionic Aromatic Compounds. Crystal Growth and Design, 2013, 13, 3255-3260.	3.0	17
41	Hydrolysis of Pd(II)-bound acetonitrile: Molecular and crystal structure of the syn isomer of the dinuclear (1,10-phenanthroline)palladium(II) complex bridged with acetamido groups and of its acetonitrile solvate. Inorganic Chemistry Communication, 2005, 8, 755-758.	3.9	16
42	Competitive H-bonding synthons in organic hydrazides. CrystEngComm, 2010, 12, 1186-1193.	2.6	16
43	Polar crystals in imines of 4-hydroxybenzohydrazide: a comparison between racemic and enantiomorphic crystals. CrystEngComm, 2013, 15, 3318.	2.6	15
44	High-Energy-Density Materials: An Amphoteric N-Rich Bis(triazole) and Salts of Its Cationic and Anionic Species. Inorganic Chemistry, 2021, 60, 16213-16222.	4.0	15
45	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
46	Liquid-crystal behaviour of some laterally substituted stiffchain polyesters containing 2-phenylbenzoxazole units. Macromolecular Chemistry and Physics, 1994, 195, 3009-3016.	2.2	14
47	Electro-optical properties from CC2 Calculations: A comparison between theoretical and experimental results. Chemical Physics Letters, 2013, 580, 126-129.	2.6	14
48	Solid State Separation and Isolation of Tautomers of Fused-Ring Triazolotriazoles. Journal of Organic Chemistry, 2017, 82, 5155-5161.	3.2	14
49	Discovery of a new PCC-mediated stereoselective oxidative spiroketalization process. An access to a new type of poly-THF spiroketal compound displaying anticancer activity. Organic and Biomolecular Chemistry, 2009, 7, 3036.	2.8	13
50	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
51	Proton induced tautomeric switching in N-rich aromatics with tunable acid-base character. Journal of Molecular Structure, 2015, 1093, 119-124.	3.6	13
52	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
53	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
54	Second order molecular nonlinearities in new orthopalladated pushâ€“pull chromophores. Inorganica Chimica Acta, 2004, 357, 913-918.	2.4	12

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55	Competition between Polar and Centrosymmetric Packings in Molecular Crystals: Analysis of Actual and Virtual Structures. Crystal Growth and Design, 2016, 16, 2260-2265.	3.0	12
56	Synthesis and nonlinear optical properties of methacrylate polymers based on 2-[4-(N-methyl,N-hydroxyethylamino)phenylazo]-phenyl-6-nitrobenzoxazole chromophore. Journal of Polymer Science Part A, 2003, 41, 1841-1847.	2.3	11
57	Reduced oddâ€“even effects in liquid crystalline carbonate dimers: molecular field analysis. Liquid Crystals, 2009, 36, 239-245.	2.2	11
58	Discovery of a novel one-step RuO4-catalysed tandem oxidative polycyclization/double spiroketalization process. Access to a new type of polyether bis-spiroketal compound displaying antitumour activity. Tetrahedron, 2010, 66, 9370-9378.	1.9	11
59	Ring to open-chain transformation induced by selective metal coordination in a new dithiocarbazate ligand. Inorganica Chimica Acta, 2013, 404, 29-33.	2.4	11
60	Translating Microscopic Molecular Motion into Macroscopic Body Motion: Reversible Self-Reshaping in the Solid State Transition of an Organic Crystal. Crystal Growth and Design, 2018, 18, 3535-3543.	3.0	11
61	An investigation on the morphology of a new coordination polymer via change effective factors based on eco-friendly sonochemical synthesis; new precursor for the preparation of cadmium(II) oxide. Inorganica Chimica Acta, 2019, 498, 119134.	2.4	11
62	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
63	Thermotropic and lyotropic mesomorphism in a polymeric network with low cross-link density. Macromolecules, 1992, 25, 129-132.	4.8	10
64	Enhanced photoinduced mass migration in supramolecular azopolymers by H-bond driven positional constraint. Journal of Materials Chemistry C, 2021, 9, 11368-11375.	5.5	10
65	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
66	Mean field analysis of four liquid crystalline oddâ€“even ester dimers. Liquid Crystals, 2007, 34, 729-736.	2.2	9
67	Orthogonal H-bonding synthons, actual and virtual structures in molecular crystals: a case study. CrystEngComm, 2014, 16, 9168-9175.	2.6	9
68	A topotactic transition in a liquid crystal compound. CrystEngComm, 2015, 17, 8864-8869.	2.6	9
69	Actual and virtual structures in molecular crystals. CrystEngComm, 2017, 19, 1320-1327.	2.6	9
70	Hydrogen bonding patterns and crystal packing in azobenzene-carboxylic acids. Crystal Engineering, 2003, 6, 87-97.	0.7	8
71	2-(4-Methylphenyl)-6-nitro-1,3-benzoxazole. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o667-o668.	0.2	8
72	Structural, electronic and vibrational properties of N,Nâ€²-1H,1H-perfluorobutyl dicyanoperylenecarboxydiimide (PDI-FCN2) crystal. Journal of Chemical Physics, 2013, 139, 114507.	3.0	8

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73	Square planar nickel(II) complexes derived from 5-bromo-2-hydroxybenzaldehyde S-ethylisothiosemicarbazone: Preparation, characterization and structural studies. Polyhedron, 2014, 80, 243-249.	2.2	8
74	3,3â€²-({4-[(4,5-Dicyano-1H-imidazol-2-yl)diazenyl]phenyl}imino)dipropionic acid. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o802-o803.	0.2	8
75	Cisâ€“trans isomerization and optical laser writing in new heterocycle based azo-polyurethanes. Optical Materials, 2012, 34, 724-728.	3.6	7
76	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
77	High-Temperature Reversible Martensitic Transition in an Excited-State Intramolecular Proton Transfer Fluorophore. Crystal Growth and Design, 2019, 19, 6519-6526.	3.0	7
78	Tautomeric and conformational switching in a new versatile N-rich heterocyclic ligand. Dalton Transactions, 2020, 49, 14452-14462.	3.3	7
79	Liquid crystalline polymorphism in a new class of semiflexible polyesters containing a 2-phenyl-benzoxazole group. Polymer, 1993, 34, 4536-4541.	3.8	6
80	meso-Me2Si(1-indenyl)2ZrCl2/methylalumoxane catalyzed polymerization of the ethylene to ethyl-branched polyethylene. Journal of Molecular Catalysis A, 2005, 230, 29-33.	4.8	6
81	Synthesis, structural characterization, antibacterial activity and selective dye adsorption of silver (I)-based coordination polymers by tuning spacer length and binding mode of chromate anion. Journal of Solid State Chemistry, 2020, 287, 121322.	2.9	6
82	Synthesis, Crystal Structures, H₂S, and Iodine Uptake Properties of Four New Coordination Polymers Constructed from Group 12 Transition Metal Ions and a Bidentate Sulfur Donor Ligand. Crystal Growth and Design, 2022, 22, 4343-4356.	3.0	6
83	Odd liquid crystalline dimers can be linear. Liquid Crystals, 2006, 33, 929-933.	2.2	5
84	A new mesogenic fluorene derivative: 2,7-bis(4-pentylphenyl)-9,9-diethyl-9H-fluorene. Liquid Crystals, 2019, 46, 543-549.	2.2	5
85	Nonparallel Chain Axes in Polymeric Molecular Crystals. Macromolecules, 1998, 31, 8941-8946.	4.8	4
86	Two geometrical isomers of the five-coordinate Platinum(II) complex [PtBr(SePh)(2,9-dimethyl-1,10-phenanthroline)(dimethylmaleate)]. Inorganica Chimica Acta, 2005, 358, 2112-2116.	2.4	4
87	An organouranium coordination polymer containing infinite metal oxide chains. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, m253-m255.	0.4	4
88	Aluminium Complexes of a Phenoxyimine Ligand with a Pendant Imidazolium Moiety: Synthesis, Characterisation and Evidence for Hydrogen Bonding in Solution. European Journal of Inorganic Chemistry, 2008, 2008, 5532-5539.	2.0	4
89	Phototautomerism of triazolo-triazole scaffold. Journal of Molecular Structure, 2020, 1203, 127368.	3.6	4
90	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

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91	3Î²,6Î²-Diacetoxy-5,9Î±-dihydroxy-5Î±-cholest-7-en-11-one acetic acid 0.04-solvate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o879-o880.	0.2	3
92	Redox and Emission Properties of Triazolo-Triazole Derivatives and Copper(II) Complexes. Journal of Solution Chemistry, 2020, 49, 504-521.	1.2	3
93	Î¼-Oxo-bis{isopropoxo[2,2â€²-(methylenedithio)bis(6-tert-butyl-4-methylphenolato)]titanium(IV)}. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, m2944-m2946.	0.2	2
94	A new biologically active molecular scaffold: crystal structure of 7-(3-hydroxyphenyl)-4-methyl-2H-[1,2,4]triazolo[3,2-c][1,2,4]triazole and selective antiproliferative activity of three isomeric triazoloâ€“triazoles. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 1398-1404.	0.5	2
95	Achieving Different Morphologies for a Zinc(II) Coordination Polymer by Green Sonochemical Synthesis and New Precursors for the Preparation of Zinc(II)oxide. ChemistrySelect, 2019, 4, 13434-13439.	1.5	2
96	{4-Bromo-2-[(2-{(ethylsulfanyl)[(2-oxidobenzylidene-ÎºO)amino-ÎºN]methylidene}hydrazinylidene-ÎºN1)methyl]phenolato-ÎºO}(ethanol-ÎºO Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m362-m363.	0.2	2
97	Effect of chalcogen bonding on the packing and coordination geometry in hybrid organicâ€“inorganic Cu(<scp>II</scp>) networks. CrystEngComm, 0, , .	2.6	2
98	rac-2,7-Bis(2-hydroxy-2-propyl)-trans-oxepane. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2907-o2908.	0.2	1
99	Isolation of a Bis-Iodurated Tetra-THF as a Trace Product from the Oxidation of Squalene with RuO4 and Its Double Ring Expansion to a Novel bis-THF-bis-THP Compound. Molecules, 2011, 16, 5362-5373.	3.8	1
100	Synthesis, Stereostructure and H-bonding Patterns of a Tris-THF Compound. Journal of Chemical Crystallography, 2011, 41, 1370-1375.	1.1	1
101	2-Cyano-5-({4-[N-methyl-N-(2-hydroxyethyl)amino] phenyl}diazenyl)pyridine. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o3079-o3080.	0.2	1
102	Insight Into the Conformational Arrangement of a Bis-THF Diol Compound Through 2D-NMR Studies and X-Ray Structural Analysis. Journal of Chemical Crystallography, 2012, 42, 360-365.	1.1	1
103	Stabilization of an elusive tautomer by metal coordination. Acta Crystallographica Section C, Structural Chemistry, 2021, 77, 395-401.	0.5	1
104	Crystal structure of a new spiro-polytetrahydrofuran compound with translational pseudosymmetry: rac-(2S,2â€²S,5â€²R)-2-methyl-5â€²-[(1R,2R,5S,5â€²R)-1,4,4,5â€²-tetramethylc Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 780-784.	0.5	1
105	N,Nâ€²-Dihydroxybenzene-1,2:4,5-tetracarboximide dihydrate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1152-o1153.	0.2	1
106	5-Amino-1-(2â€²,3â€²-O-isopropylidene-<scp>D</scp>-ribityl)-1H-imidazole-4-carboxamide: a crystal structure withZâ€² = 4. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 183-187.	0.5	1
107	Crystal structure and mesogenic behaviour of a new fluorene derivative: 9,9-dimethyl-2,7-bis(4-pentylphenyl)-9H-fluorene. Acta Crystallographica Section C, Structural Chemistry, 2019, 75, 1459-1464.	0.5	1
108	Study of the conformational disorder in polyesters giving liquid-crystalline phases. Macromolecular Theory and Simulations, 1997, 6, 777-792.	1.4	0

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109	Back Cover: Macromol. Chem. Phys. 14/2005. Macromolecular Chemistry and Physics, 2005, 206, 1452-1452.	2.2	0
110	Di-Î¼-chloro-bis[bis(cumylcyclopentadienyl)yttrium(III)]. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m1449-m1451.	0.2	0
111	Strong overcrowding in dimethyl 2-(dimethylamino)terephthalate. Acta Crystallographica Section C: Crystal Structure Communications, 2008, 64, o420-o422.	0.4	0
112	4,5-Diamino-3-[(E,E)-4-(4,5-diamino-4H-1,2,4-triazol-3-yl)buta-1,3-dienyl]-4H-1,2,4-triazol-1-ium chloride. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1131-o1132.	0.2	0
113	Pseudosymmetry and highZâ€² structures: the case ofrac-(2R,2â€²R,5â€²S)-2-methyl-5â€²-[(1R,2R,5S,5â€²S)-1,4,5â€²-tetrame Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1282-1286.	0.5	0
114	Macromolecular Systems with Second Order Nonlinear Optical Properties. , 2010, , 79-117.		0
115	(3R,3aR,6R,6aR)-Hexahydrofuro[3,2-b]furan-3,6-diyl dibenzoate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1396-o1397.	0.2	0
116	(3S,3aS,6R,6aR)-2-Oxohexahydrofuro[3,2-b]furan-3,6-diyl dibenzoate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1494-o1495.	0.2	0
117	Crystal structure of an epoxysterol: 9Î±,11Î±-epoxy-5Î±-cholest-7-ene-3Î²,5,6Î±-triol 3,6-diacetate. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1603-1606.	0.5	0