

# Alessia Colombo

## List of Publications by Year in descending order

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93  
papers

2,977  
citations

126858

33  
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197736

49  
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94  
all docs

94  
docs citations

94  
times ranked

3206  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second-Order NLO Switches from Molecules to Polymer Films Based on Photochromic Cyclometalated Platinum(II) Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 5367-5375.	6.6	184
2	Cyclometalated platinum(ii) complexes of 1,3-di(2-pyridyl)benzenes: tuning excimer emission from red to near-infrared for NIR-OLEDs. <i>Journal of Materials Chemistry</i> , 2011, 21, 15501.	6.7	100
3	Luminescent Downshifting by Photo-Induced Sol-Gel Hybrid Coatings: Accessing Multifunctionality on Flexible Organic Photovoltaics via Ambient Temperature Material Processing. <i>Advanced Electronic Materials</i> , 2016, 2, 1600288.	2.6	85
4	Novel N <sup>C</sup> N-cyclometalated platinum complexes with acetylide co-ligands as efficient phosphors for OLEDs. <i>Journal of Materials Chemistry</i> , 2012, 22, 10650.	6.7	81
5	Cyclometalated platinum(ii) complexes of 1,3-di(2-pyridyl)benzenes for solution-processable WOLEDs exploiting monomer and excimer phosphorescence. <i>Journal of Materials Chemistry</i> , 2011, 21, 8653.	6.7	78
6	Platinum(ii) complexes with cyclometalated 5- $\pi$ -delocalized-donor-1,3-di(2-pyridyl)benzene ligands as efficient phosphors for NIR-OLEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1791.	2.7	78
7	Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. <i>Coordination Chemistry Reviews</i> , 2016, 322, 69-93.	9.5	76
8	From red to near infra-red OLEDs: the remarkable effect of changing from X = $\text{Cl}$ to $\text{NCS}$ in a cyclometalated $[\text{Pt}(\text{N}^{\text{C}}\text{C}^{\text{N}}\text{X})\text{X}]$ complex $\{\text{N}^{\text{C}}\text{C}^{\text{N}} = 5\text{-mesityl-1,3-di-(2-pyridyl)benzene}\}$ . <i>Chemical Communications</i> , 2012, 48, 3182.	2.2	72
9	An unprecedented switching of the second-order nonlinear optical response in aggregate bis(salicylaldiminato)zinc(ii) Schiff-base complexes. <i>Dalton Transactions</i> , 2012, 41, 7013.	1.6	72
10	Luminescent cyclometalated Ir(iii) and Pt(ii) complexes with $\hat{\text{I}}^2$ -diketonate ligands as highly active second-order NLO chromophores. <i>Chemical Communications</i> , 2010, 46, 2414.	2.2	64
11	Linear and Nonlinear Optical Properties of Tris-cyclometalated Phenylpyridine Ir(III) Complexes Incorporating $\pi$ -Conjugated Substituents. <i>Inorganic Chemistry</i> , 2013, 52, 7987-7994.	1.9	60
12	Synthesis, characterization, optical absorption/fluorescence spectroscopy, and second-order nonlinear optical properties of aggregate molecular architectures of unsymmetrical Schiff-base zinc( $\text{II}$ ) complexes. <i>Dalton Transactions</i> , 2014, 43, 2168-2175.	1.6	60
13	Tetracoordinated Bis-phenanthroline Copper-Complex Couple as Efficient Redox Mediators for Dye Solar Cells. <i>Inorganic Chemistry</i> , 2016, 55, 5245-5253.	1.9	60
14	Sequential double second-order nonlinear optical switch by an acido-triggered photochromic cyclometalated platinum( $\text{II}$ ) complex. <i>Chemical Communications</i> , 2015, 51, 7805-7808.	2.2	56
15	Efficient Copper Mediators Based on Bulky Asymmetric Phenanthrolines for DSSCs. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13945-13955.	4.0	53
16	A trip in the nonlinear optical properties of iridium complexes. <i>Coordination Chemistry Reviews</i> , 2020, 414, 213293.	9.5	51
17	Neutral N <sup>C</sup> N terdentate luminescent Pt( $\text{II}$ ) complexes: their synthesis, photophysical properties, and bio-imaging applications. <i>Dalton Transactions</i> , 2015, 44, 8478-8487.	1.6	50
18	Coupling of a Copper Dye with a Copper Electrolyte: A Fascinating Springboard for Sustainable Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 751-756.	2.5	50

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19	Simple novel cyclometallated iridium complexes for potential application in dye-sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2012, 388, 163-167.	1.2	49
20	Tuning the Dipolar Second-Order Nonlinear Optical Properties of Cyclometalated Platinum(II) Complexes with Tridentate N <sup>C</sup> N Binding Ligands. <i>Chemistry - A European Journal</i> , 2013, 19, 9875-9883.	1.7	48
21	Thiocyanate-Free Ruthenium(II) Sensitizer with a Pyrid-2-yltetrazolate Ligand for Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2013, 52, 10723-10725.	1.9	47
22	Olefin Metathesis Based Approach to Diversely Functionalized Pyrrolizidines and Indolizidines; Total Synthesis of (+)-Monomorine. <i>Journal of Organic Chemistry</i> , 2009, 74, 590-596.	1.7	44
23	Towards efficient sustainable full-copper dye-sensitized solar cells. <i>Dalton Transactions</i> , 2019, 48, 9703-9711.	1.6	43
24	Cyclometalated 4-Styryl-2-phenylpyridine Platinum(II) Acetylacetonate Complexes as Second-Order NLO Building Blocks for SHG Active Polymeric Films. <i>Organometallics</i> , 2013, 32, 3890-3894.	1.1	41
25	Unexpectedly high second-order nonlinear optical properties of simple Ru and Pt alkynyl complexes as an analytical springboard for NLO-active polymer films. <i>Chemical Communications</i> , 2014, 50, 7986.	2.2	41
26	Photochromic DTE-Substituted-1,3-di(2-pyridyl)benzene Platinum(II) Complexes: Photomodulation of Luminescence and Second-Order Nonlinear Optical Properties. <i>Inorganic Chemistry</i> , 2018, 57, 7051-7063.	1.9	41
27	Novel ruthenium(ii) complexes with substituted 1,10-phenanthroline or 4,5-diazafluorene linked to a fullerene as highly active second order NLO chromophores. <i>Dalton Transactions</i> , 2010, 39, 10314.	1.6	40
28	Dimers of polar chromophores in solution: role of excitonic interactions in one- and two-photon absorption properties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11099.	1.3	39
29	Thiocyanate-free cyclometalated ruthenium sensitizers for solar cells based on heteroaromatic-substituted 2-arylpyridines. <i>Dalton Transactions</i> , 2012, 41, 11731.	1.6	39
30	A new thiocyanate-free cyclometallated ruthenium complex for dye-sensitized solar cells: Beneficial effects of substitution on the cyclometallated ligand. <i>Journal of Organometallic Chemistry</i> , 2012, 714, 88-93.	0.8	38
31	Functionalized styryl iridium(III) complexes as active second-order NLO chromophores and building blocks for SHG polymeric films. <i>Journal of Organometallic Chemistry</i> , 2014, 751, 568-572.	0.8	38
32	Degradation of toxic halogenated organic compounds by iron-containing mono-, bi- and tri-metallic particles in water. <i>Inorganica Chimica Acta</i> , 2015, 431, 48-60.	1.2	37
33	Thiocyanate-free ruthenium(II) 2,2'-bipyridyl complexes for dye-sensitized solar cells. <i>Polyhedron</i> , 2014, 82, 50-56.	1.0	36
34	UV-curable fluoropolymers crosslinked with functional fluorescent dyes: the way to multifunctional thin-film luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9067-9075.	5.2	35
35	A simple copper(I) complex and its application in efficient dye sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2013, 407, 204-209.	1.2	34
36	Photoswitching of the Second Harmonic Generation from Poled Phenyl-Substituted Dithienylethene Thin Films and EFISH Measurements. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20425-20432.	1.5	32

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37	A Highly Luminescent Tetrahydrocurcumin Ir <sup>III</sup> Complex with Remarkable Photoactivated Anticancer Activity. <i>Chemistry - A European Journal</i> , 2019, 25, 7948-7952.	1.7	32
38	Copper Complexes as Alternative Redox Mediators in Dye-Sensitized Solar Cells. <i>Molecules</i> , 2021, 26, 194.	1.7	32
39	Ferrocene-quinoxaline Y-shaped chromophores as fascinating second-order NLO building blocks for long lasting highly active SHG polymeric films. <i>Dalton Transactions</i> , 2016, 45, 11939-11943.	1.6	31
40	Steric vs electronic effects and solvent coordination in the electrochemistry of phenanthroline-based copper complexes. <i>Electrochimica Acta</i> , 2014, 141, 324-330.	2.6	30
41	Coupling of Zinc Porphyrin Dyes and Copper Electrolytes: A Springboard for Novel Sustainable Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2017, 56, 14189-14197.	1.9	30
42	Zinc(II) as a Versatile Template for Efficient Dipolar and Octupolar Second-Order Nonlinear Optical Molecular Materials. <i>Inorganics</i> , 2018, 6, 133.	1.2	30
43	New thiocyanate-free ruthenium sensitizers with different pyrid-2-yl tetrazolate ligands for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2015, 44, 11788-11796.	1.6	28
44	Functionalized Ruthenium Dialkynyl Complexes with High Second-Order Nonlinear Optical Properties and Good Potential as Dye Sensitizers for Solar Cells. <i>Organometallics</i> , 2015, 34, 94-104.	1.1	27
45	Highly emissive fluorescent silica-based core/shell nanoparticles for efficient and stable luminescent solar concentrators. <i>Nano Energy</i> , 2021, 80, 105551.	8.2	27
46	A Novel Diruthenium Acetylide Donor Complex as an Unusual Active Material for Bulk Heterojunction Solar Cells. <i>Organometallics</i> , 2011, 30, 1279-1282.	1.1	24
47	Ruthenium oxyquinolate complexes for dye-sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2013, 405, 98-104.	1.2	24
48	A chemoenzymatic-RCM strategy for the enantioselective synthesis of new dihydroxylated 5-hydroxymethyl-indolizidines and 6-hydroxymethyl-quinolizidines. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 1948-1954.	1.8	23
49	The Effect of Bromo Substituents on the Multifaceted Emissive and Crystal Packing Features of Cyclic Triimidazole Derivatives. <i>ChemPhotoChem</i> , 2018, 2, 801-805.	1.5	22
50	Two-photon absorption properties of Zn(II) complexes: Unexpected large TPA cross section of dipolar [ZnY <sub>2</sub> (4,4'-bis(para-di-n-butylaminostyryl)-2,2'-bipyridine)] (Y=Cl, CF <sub>3</sub> CO <sub>2</sub> ). <i>Chemical Physics Letters</i> , 2009, 475, 245-249.	1.2	21
51	Two-photon absorption properties and $^{1}O_2$ generation ability of Ir complexes: an unexpected large cross section of [Ir(CO) <sub>2</sub> Cl(4-(para-di-n-butylaminostyryl)pyridine)]. <i>Dalton Transactions</i> , 2015, 44, 15712-15720.	1.6	21
52	Improving the efficiency of copper-dye-sensitized solar cells by manipulating the electrolyte solution. <i>Dalton Transactions</i> , 2019, 48, 9818-9823.	1.6	21
53	Novel Fullerene Platinum Alkynyl Complexes with High Second-Order Nonlinear Optical Properties as a Springboard for NLO-Active Polymer Films. <i>Organometallics</i> , 2016, 35, 1015-1021.	1.1	20
54	Fluorescent probes based on chemically-stable core/shell microcapsules for visual microcrack detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 35-42.	4.0	20

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55	NLO-active Y-shaped ferrocene conjugated imidazole chromophores as precursors for SHG polymeric films. Dalton Transactions, 2020, 49, 1854-1863.	1.6	20
56	An excursion in the second-order nonlinear optical properties of platinum complexes. Coordination Chemistry Reviews, 2021, 446, 214113.	9.5	20
57	Nonlinear optical properties of intriguing Ru $\pi$ -acetylide complexes and the use of a photocrosslinked polymer as a springboard to obtain SHG active thin films. Dalton Transactions, 2016, 45, 11052-11060.	1.6	19
58	An investigation on the second-order nonlinear optical response of cationic bipyridine or phenanthroline iridium(III) complexes bearing cyclometallated 2-phenylpyridines with a triphenylamine substituent. Dalton Transactions, 2018, 47, 8292-8300.	1.6	19
59	A carbon doped anatase TiO <sub>2</sub> as a promising semiconducting layer in Ru-dyes based dye-sensitized solar cells. Inorganica Chimica Acta, 2019, 489, 263-268.	1.2	19
60	Evidence for the applicability of a novel procedure (swelling–poling–deswelling) to produce a stable alignment of second order NLO-chromophores covalently attached to a cross-linked PMMA or polystyrene polymeric network. Journal of Non-Crystalline Solids, 2011, 357, 2075-2080.	1.5	18
61	Bis(1,10-phenanthroline) copper complexes with tailored molecular architecture: from electrochemical features to application as redox mediators in dye-sensitized solar cells. Electrochimica Acta, 2018, 271, 180-189.	2.6	18
62	First member of an appealing class of cyclometalated 1,3-di(2-pyridyl)benzene platinum(II) complexes for solution-processable OLEDs. Journal of Materials Chemistry C, 2020, 8, 7873-7881.	2.7	18
63	A Chiral Bis(salicylaldiminato)zinc(II) Complex with Second-Order Nonlinear Optical and Luminescent Properties in Solution. Inorganics, 2020, 8, 25.	1.2	18
64	Novel Ferrocene-Appended $\pi$ -Ketoimines and Related BF <sub>2</sub> Derivatives with Significant Aggregation-Induced Emission and Second-Order Nonlinear Optical Properties. Chemistry - A European Journal, 2021, 27, 7124-7137.	1.7	18
65	New [(D-terpyridine)-Ru(D or A-terpyridine)][4-EtPhCO <sub>2</sub> ] <sub>2</sub> complexes (D = electron donor group; A =) Tj ETQq1 1 0.784314 rgBT /Over Transactions, 2012, 41, 6707.	1.6	17
66	Optoelectronic properties of OLEC devices based on phenylquinoline and phenylpyridine ionic iridium complexes. Dalton Transactions, 2012, 41, 9227.	1.6	17
67	Double side self-cleaning polymeric materials: The hydrophobic and photoactive approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 483, 285-291.	2.3	17
68	Design of cyclometallated $\pi$ -delocalized donor-1,3-di(2-pyridyl)benzene platinum(II) complexes with second-order nonlinear optical properties. Polyhedron, 2018, 140, 74-77.	1.0	17
69	Contrasted photochromic and luminescent properties in dinuclear Pt(II) complexes linked through a central dithienylethene unit. Chemical Communications, 2016, 52, 9833-9836.	2.2	16
70	An investigation on the second-order NLO properties of novel cationic cyclometallated Ir(III) complexes of the type [Ir(2-phenylpyridine) <sub>2</sub> (9-R-4,5-diazafluorene)] <sup>+</sup> (R=H, fulleridene) and the related neutral complex with the new 9-fulleriden-4-monoazafluorene ligand. Inorganica Chimica Acta, 2012, 382, 72-78.	1.2	14
71	Highly efficient acido-triggered reversible luminescent and nonlinear optical switch based on $\pi$ -delocalized-donor-1,3-di(2-pyridyl)benzenes. Journal of Materials Chemistry C, 2015, 3, 7421-7427.	2.7	14
72	A new spirocyclic proline-based lactam as efficient type II $\pi$ -turn inducing peptidomimetic. Tetrahedron Letters, 2008, 49, 7423-7425.	0.7	13

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73	Intriguing $\pi$ - $\sigma$ -Cu interactions in bis-(phenanthroline)Cu redox mediators for dye-sensitized solar cells. Dalton Transactions, 2018, 47, 1018-1022.	1.6	13
74	A novel multifunctional cyclometallated iridium(III) complex with interesting second-order nonlinear optical properties and two-photon absorption activity. Polyhedron, 2018, 140, 116-121.	1.0	12
75	Novel cyclometallated $\pi$ -delocalized donor-1,3-di(2-pyridyl)benzene platinum complexes with good second-order nonlinear optical properties. Dalton Transactions, 2019, 48, 202-208.	1.6	12
76	Recent Advances in Dye-Sensitized Solar Cells. Molecules, 2021, 26, 2461.	1.7	12
77	Recent Investigations on Thiocyanate-Free Ruthenium(II) 2,2'-Bipyridyl Complexes for Dye-Sensitized Solar Cells. Molecules, 2021, 26, 7638.	1.7	11
78	Novel highly conjugated push-pull 4,5-diazafluoren-9-ylidene based efficient NLO chromophores as a springboard for coordination complexes with large second-order NLO properties. Journal of Materials Chemistry, 2012, 22, 19761.	6.7	10
79	Fascinating Role of the Number of f Electrons in Dipolar and Octupolar Contributions to Quadratic Hyperpolarizability of Trinuclear Lanthanides-Biscopper Schiff Base Complexes. Inorganic Chemistry, 2013, 52, 7550-7556.	1.9	10
80	Asymmetrical 1,3-Bis(heteroazoyl)benzene Platinum Complexes with Tunable Second-Order Non-Linear Optical Properties. European Journal of Inorganic Chemistry, 2016, 2016, 4774-4782.	1.0	10
81	Tuning the dipolar second-order nonlinear optical properties of $\pi$ -delocalized-donor-1,3-di(2-pyridyl)benzenes, related cyclometallated platinum complexes and methylated salts. Dalton Transactions, 2017, 46, 1179-1185.	1.6	10
82	Novel Terthiophene-Substituted Fullerene Derivatives as Easily Accessible Acceptor Molecules for Bulk-Heterojunction Polymer Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-10.	1.4	8
83	Perylenetetracarboxy-3,4:9,10-diimide derivatives with large two-photon absorption activity. New Journal of Chemistry, 2019, 43, 1885-1893.	1.4	7
84	Cyclometalated Ir(III) Complexes with Curcuminoid Ligands as Active Second-Order NLO Chromophores and Building Blocks for SHG Polymeric Films. Inorganics, 2020, 8, 36.	1.2	6
85	Synthesis of $\alpha$ -alkenylidene- $\beta$ -oxoindolines: cascade reactions of 4-hydroxy-3,2-indoles with diazoacetates catalyzed by a Cu(I) macrocyclic pyridine-containing ligand (PcL) complex. ChemCatChem, 2020, 12, 5250-5255.	1.8	6
86	Exploring the potential of N <sup>^</sup> C <sup>^</sup> N cyclometalated Pt(II) complexes bearing 1,3-di(2-pyridyl)benzene derivatives for imaging and photodynamic therapy. Inorganica Chimica Acta, 2022, 541, 121082.	1.2	6
87	The intriguing effect of thiolates as co-ligands in platinum(II) complexes bearing a cyclometalated 1,3-di(2-pyridyl)benzene. Inorganica Chimica Acta, 2022, 532, 120744.	1.2	5
88	Impact of the Subunit Arrangement on the Nonlinear Absorption Properties of Organometallic Complexes with Ruthenium(II) $\eta$ -Acetylide and Benzothiadiazole as Building Units. Inorganics, 2019, 7, 67.	1.2	3
89	Exohedral Functionalization of Fullerene by Substituents Controlling of Molecular Organization for Spontaneous C60 Dimerization in Liquid Crystal Solutions and in a Bulk Controlled by a Potential. Polymers, 2021, 13, 2816.	2.0	3
90	Strategies for tuning the catalytic activity of zinc complexes in the solvent-free coupling reaction of CO <sub>2</sub> and cyclohexene oxide. Inorganica Chimica Acta, 2022, 532, 120753.	1.2	3

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91	Intriguing Second-Order NLO Switches Based on New DTE Compounds. European Journal of Inorganic Chemistry, 0, , .	1.0	3
92	OLEDs based on multi-emission by a single emitter. , 2014, , .		0
93	Crosslinking UV-curable polymers with organic dyes for highly stable, multifunctional, light-harvesting luminescent solar concentrators. , 2017, , .		0