

Luca Pilia

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Square-planar d8 metal mixed-ligand dithiolene complexes as second order nonlinear optical chromophores: Structure/property relationship. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1434-1447.	18.8	126
2	Structure and Emission Properties of Er3Q9(Q = 8-Quinolinolate). <i>Inorganic Chemistry</i> , 2005, 44, 840-842.	4.0	81
3	Electronic Factors Affecting Second-Order NLO Properties: A Case Study of Four Different Push-Pull Bis-Dithiolene Nickel Complexes. <i>Inorganic Chemistry</i> , 2004, 43, 5069-5079.	4.0	75
4	Near infrared light emission quenching in organolanthanide complexes. <i>Journal of Applied Physics</i> , 2006, 99, 053520.	2.5	67
5	[Ni(R2pipdt)2](BF4)2 (R2pipdt = 1,4-disubstituted-piperazine-3,2-dithione) as useful precursors of mixed-ligand dithiolenes of interest for non-linear optics. <i>Chemical Communications</i> , 2001, , 2246-2247.	4.1	65
6	New Insights on Near-Infrared Emitters Based on Er-quinolinolate Complexes: Synthesis, Characterization, Structural, and Photophysical Properties. <i>Advanced Functional Materials</i> , 2007, 17, 2365-2376.	14.9	60
7	Argentophilic Interactions in Mono-, Di-, and Polymeric Ag(I) Complexes with N,N'-Dimethyl-piperazine-2,3-dithione and Iodide. <i>Crystal Growth and Design</i> , 2011, 11, 1278-1286.	3.0	55
8	Redox-Switchable Chromophores Based on Metal (Ni, Pd, Pt) Mixed-Ligand Dithiolene Complexes Showing Molecular Second-Order Nonlinear-Optical Activity. <i>Inorganic Chemistry</i> , 2011, 50, 2058-2060.	4.0	53
9	Ion Pair Charge-Transfer Complexes between Anionic and Cationic Metal-Dithiolenes [M(II) = Pd, Pt]. <i>Inorganic Chemistry</i> , 2002, 41, 5241-5248.	4.0	51
10	Combined Experimental and Theoretical Study on Redox-Active d ⁸ Metal Dithione-Dithiolato Complexes Showing Molecular Second-Order Nonlinear Optical Activity. <i>Inorganic Chemistry</i> , 2011, 50, 10015-10027.	4.0	46
11	Pd-Dissolution through a mild and effective one-step reaction and its application for Pd-recovery from spent catalytic converters. <i>Chemical Communications</i> , 2005, , 1040.	4.1	42
12	Mixed-ligand Pt(II) dithione-dithiolato complexes: influence of the dicyanobenzodithiolato ligand on the second-order NLO properties. <i>Dalton Transactions</i> , 2012, 41, 3485.	3.3	41
13	Interactions modes and physical properties in transition metal chalcogenolene-based molecular materials. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1419-1433.	18.8	40
14	New powerful reagents based on dihalogen/N,N'-dimethylperhydrodiazepine-2,3-dithione adducts for gold dissolution: the IBr case. <i>Dalton Transactions</i> , 2003, , 1969-1974.	3.3	34
15	A chirality-induced alpha phase and a novel molecular magnetic metal in the BEDT-TTF/tris(croconate)ferrate(III) hybrid molecular system. <i>Chemical Communications</i> , 2006, , 4931-4933.	4.1	34
16	Charge transfer complexes of dithioamides with dihalogens as powerful reagents in the dissolution of noble metals. <i>Coordination Chemistry Reviews</i> , 2008, 252, 1200-1212.	18.8	34
17	Role of the Acceptor in Tuning the Properties of Metal [M(II) = Ni, Pd, Pt] Dithiolato/Dithione (Donor/Acceptor) Second-Order Nonlinear Chromophores: Combined Experimental and Theoretical Studies. <i>Inorganic Chemistry</i> , 2014, 53, 1170-1183.	4.0	33
18	New BEDT-TTF/[Fe(C5O5)3]3-Hybrid System: A Synthesis, Crystal Structure, and Physical Properties of a Chirality-Induced α Phase and a Novel Magnetic Molecular Metal. <i>Inorganic Chemistry</i> , 2007, 46, 4446-4457.	4.0	31

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19	Nonlinear-Optical Properties of π -Diiminedithiolatonickel(II) Complexes Enhanced by Electron-Withdrawing Carboxyl Groups. <i>Inorganic Chemistry</i> , 2014, 53, 4517-4526.	4.0	30
20	Innocence and noninnocence of the ligands in bis(pyrazine-2,3-dithiolate and -diselenate) d8-metal complexes. A theoretical and experimental study for the Cu(III), Au(III) and Ni(II) cases. <i>Dalton Transactions</i> , 2010, 39, 4566.	3.3	27
21	Synthesis, Crystal Structure, and Physical Properties of (BEDT-TTF)[Ni(tdas) ₂] (BEDT-TTF = Tj ETQq1 1 0.784314 rgBT /Overlock 10 T [Ni(tdas) ₂]-Monoanion. <i>Inorganic Chemistry</i> , 2004, 43, 2049-2056.	4.0	26
22	Electrochromic second-order NLO chromophores based on MII (M = Ni, Pd, Pt) complexes with diselenolato π -dithione (donor π -acceptor) ligands. <i>Dalton Transactions</i> , 2012, 41, 12106.	3.3	26
23	Ultrafast electronic and vibrational relaxations in mixed-ligand dithione π -dithiolato Ni, Pd, and Pt complexes. <i>Dalton Transactions</i> , 2014, 43, 17666-17676.	3.3	24
24	Conductive thin films of π -(BETS) ₄ [Fe(CN) ₅ NO] on silicon electrodes π - new perspectives on charge transfer salts. <i>New Journal of Chemistry</i> , 2004, 28, 52-55.	2.8	20
25	Influence of the R-substituents on the properties of [Ni(R ₂ pipdt)(dmit)] complexes and crystal structure where R = CH ₂ C ₆ H ₅ . <i>Dalton Transactions</i> , 2007, , 5453.	3.3	19
26	Synthesis, Structure, Spectroscopic Studies and Magnetic Properties of the Tetrakis(5,7 π -dichloro π -quinolinolato)gadolinium(III) Complex. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3820-3826.	2.0	19
27	Square-planar d8 metal push π -pull dithiolene complexes: Synthesis and characterization of [Pd(Me ₂ pipdt)(dmit)]. <i>Inorganic Chemistry Communication</i> , 2009, 12, 490-493.	3.9	18
28	Substitution Effects on the Optoelectronic Properties of Coumarin Derivatives. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 144.	2.5	17
29	Synthesis and Physical Properties of K ₄ [Fe(C ₅ O ₅) ₂ (H ₂ O) ₂](HC ₅ O ₅) ₂ (C ₅ O ₅ ²⁻ = Croconate): A Rare Example of Ferromagnetic Coupling via H-bonds. <i>Inorganic Chemistry</i> , 2012, 51, 5360-5367.	4.0	16
30	Near-infrared pigments based on ion-pair charge transfer salts of dicationic and dianionic metal π -dithiolene [M(II) = Pd, Pt] complexes. <i>Dalton Transactions</i> , 2013, 42, 12429.	3.3	16
31	Optically Multiresponsive Heteroleptic Platinum Dithiolene Complex with Proton-Switchable Properties. <i>Inorganic Chemistry</i> , 2017, 56, 6763-6767.	4.0	16
32	Molecular engineering of heteroleptic metal-dithiolene complexes with optimized second-order NLO response. <i>Inorganica Chimica Acta</i> , 2018, 470, 295-302.	2.4	16
33	Influence of Magnetic Scaffold Loading Patterns on Their Hyperthermic Potential Against Bone Tumors. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2029-2040.	4.2	15
34	(BETS) ₂ [Fe(tdas) ₂] ₂ : a new metal in the molecular conductor family. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, m240-m242.	0.4	14
35	A New Conducting Molecular Solid Based on the Magnetic [Ni(dmf) ₆] ²⁺ Cation and on [Ni(dsit) ₂] ₂ ²⁻ (dsit=1,3-dithiole-2-thione-4,5-diselenolate) Showing an Unprecedented Anion Packing. <i>Journal of Solid State Chemistry</i> , 2002, 168, 653-660.	2.9	13
36	Peculiar electronic and vibrational properties of metal π -dithiolenes (Ni, Au) based on 1,2,5-thiadiazole-3,4-dithiolato. <i>Dalton Transactions</i> , 2009, , 495-503.	3.3	13

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37	Electro-Conducting Properties of Charge-Transfer Salts Based on Cationic and Anionic Platinum Dithiolenes – Crystal Structure of [Pt(Me ₂ pipdt) ₂][Pt(dtc _r) ₂]. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1829-1835.	2.0	12
38	Synthesis, crystal structures and magnetic properties of mononuclear tris(croconate)ferrate(III) complexes. <i>Inorganica Chimica Acta</i> , 2006, 359, 1177-1183.	2.4	12
39	Square-planar mixed ligand nickel dithiolenes as second-order non-linear chromophores: synthesis and characterisation of [Ni(Me ₂ pipdt)(dddt)]. <i>Monatshefte für Chemie</i> , 2009, 140, 775-781.	1.8	12
40	Giant Magnetoresistance in a Molecular Thin Film as an Intrinsic Property. <i>Advanced Functional Materials</i> , 2014, 24, 2383-2388.	14.9	10
41	Fabrication of Nanoporous Al by Vapor-Phase Dealloying: Morphology Features, Mechanical Properties and Model Predictions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6639.	2.5	10
42	Self-assembly supramolecular architectures of chromium(III) complexes using croconate as building block. <i>Dalton Transactions</i> , 2009, , 557-563.	3.3	9
43	New nickel dithiolene–diselenolene complexes obtained from 3,4-dichloro-1,2,5-thiadiazole. <i>Polyhedron</i> , 2003, 22, 2175-2181.	2.2	8
44	Synthesis, structure and spectroscopic properties of a new class of polymerisable nickel dithiolenes. <i>Journal of Materials Chemistry</i> , 2009, 19, 6194.	6.7	8
45	Uncommon Optical Properties and Silver-Responsive Turn-Off/On Luminescence in a Pt ^{II} Heteroleptic Dithiolene Complex. <i>Chemistry - A European Journal</i> , 2018, 24, 10503-10512.	3.3	8
46	Anti-Kasha Conformational Photoisomerization of a Heteroleptic Dithiolene Metal Complex Revealed by Ultrafast Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10687-10693.	2.5	8
47	New sulfur-oxygen mixed-donor ligand N,N'-dimethyl-piperazine-3-oxo-2-thione (Me ₂ pipto) and its Ni(ii) and Fe(ii) complexes. <i>Dalton Transactions</i> , 2010, 39, 8139.	3.3	7
48	Croconato-containing M(III) (M = Ga, Er) complexes as potential building blocks for mono/multifunctional molecular materials. <i>Inorganica Chimica Acta</i> , 2011, 370, 474-481.	2.4	7
49	New BDH-TTP/[M ^{III}](C ₅ O ₅) ₃ (M = Fe, Ga) Isostructural Molecular Metals. <i>Inorganic Chemistry</i> , 2013, 52, 423-430.	4.0	7
50	Tuning the LUMO energy of 1,10-phenanthroline in ±-diimine–dithiolate Ni(II) complex and enhancement of nonlinear optical properties. <i>Inorganica Chimica Acta</i> , 2015, 430, 114-119.	2.4	7
51	A nonlinear optical active polymer film based on Pd ^{II} dithione/dithiolate second-order NLO chromophores. <i>Dalton Transactions</i> , 2016, 45, 17431-17438.	3.3	7
52	Design of nickel donor–acceptor dithiolenes for 2nd order nonlinear optics: an experimental and computational study. <i>New Journal of Chemistry</i> , 2019, 43, 12570-12579.	2.8	7
53	Molecular Size Matters: Ultrafast Dye Singlet Sensitization Pathways to Bright Nanoparticle Emission. <i>Advanced Optical Materials</i> , 2021, 9, 2001678.	7.3	7
54	Single-component panchromatic white light generation, and tuneable excimer-like visible orange and NIR emission in a Dy quinolinolate complex. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15641-15648.	5.5	7

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55	Salts of cationic platinum dithiolenes with anionic platinum complexes: structural characterization of [Pt(Me ₂ pipdt) ₂][Pt(SCN) ₄] (Me ₂ pipdt = N,N-dimethyl-piperazine-2,3-dithione). <i>Inorganica Chimica Acta</i> , 2004, 357, 1608-1612.	2.4	6
56	Structure and characterisation of [Pt(Me ₂ pipdt) ₂][Pt(mnt) ₂] ₂ and its unusual magnetic properties associated with a non-regular one-dimensional [Pt(mnt) ₂] stack. <i>Chemical Physics Letters</i> , 2006, 421, 361-366.	2.6	6
57	Structural changes in M ^{II} dithione/dithiolato complexes (M = Ni, Pd, Pt) on varying the dithione functionalization. <i>CrystEngComm</i> , 2015, 17, 4161-4171.	2.6	6
58	Tuning the oxidation state and magnetic and coordination behaviour of iron and cobalt complexes by O/S variation in mono-thio and dithio-oxamide chelating ligands. <i>New Journal of Chemistry</i> , 2015, 39, 4716-4725.	2.8	6
59	Effect of fluorination on the crystal and electronic structure of organometallic cyclopentadienyl-phenylenediamino-cobalt complexes. <i>Journal of Organometallic Chemistry</i> , 2020, 918, 121277.	1.8	6
60	Characterization and Structural Insights of the Reaction Products by Direct Leaching of the Noble Metals Au, Pd and Cu with N,N-Dimethyl-piperazine-2,3-dithione/l2 Mixtures. <i>Molecules</i> , 2021, 26, 4721.	3.8	6
61	Novel homogeneous selective electrocatalysts for CO ₂ reduction: an electrochemical and computational study of cyclopentadienyl-phenylenediamino-cobalt complexes. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5609-5617.	4.9	5
62	Structural and Electronic Effects Due to Fluorine Atoms on Dibenzotetraaza-Annulenes Complexes. <i>ACS Omega</i> , 2018, 3, 10074-10083.	3.5	4
63	High Second-Order NLO Response Exhibited by the First Example of Polymeric Film Incorporating a Diimine-Dithiolate Square-Planar Complex: The [Ni(<i>o</i> -phen)(bdt)]. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19286-19294.	3.1	3
64	Fluorination induced electronic effects on a Pt square-planar complex of the <i>o</i> -phenylenediamine ligand. <i>New Journal of Chemistry</i> , 2017, 41, 5487-5492.	2.8	3
65	DFT study of [Pt(Cl) ₂ L] complex (L = Arubeanic acid) and its derived compounds with DNA purine bases. <i>Chemical Physics</i> , 2020, 530, 110646.	1.9	3
66	Multimagnetic Properties of a Novel SCO [Fe(3-OMeSal ₂ trien)][Fe(tdas) ₂]-CH ₃ CN Salt. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4556-4567.	2.0	3
67	Insight into the Properties of Heteroleptic Metal Dithiolenes: Multistimuli Responsive Luminescence, Chromism, and Nonlinear Optics. <i>Inorganic Chemistry</i> , 2021, 60, 9332-9344.	4.0	3
68	Molecular materials with conducting and magnetic properties based on ET and [M(tdas) ₂] ^x dithiolenes. <i>European Physical Journal Special Topics</i> , 2004, 114, 425-430.	0.2	2
69	Synthesis, crystal structure and properties of the semiconducting salts (TTF) ₂ [Ni(dtcr) ₂] and (ET) ₂ [Ni(dtcr) ₂] based on [Ni(dtcr) ₂] dianions (dtcr = dithiocroconate). <i>Dalton Transactions</i> , 2006, , 2456.	3.3	2
70	New salts derived from organic donor molecules with long-living excited states counter-ions. <i>Synthetic Metals</i> , 2003, 133-134, 377-380.	3.9	1
71	Progress and perspectives on strategies to control photochemical properties in Metallo-Dithiolene Donor-Acceptor systems. <i>Inorganica Chimica Acta</i> , 2022, 531, 120731.	2.4	1
72	Stable CsPbBr ₃ Nanocrystals Decorated Nanoporous Gold for Optoelectronic Applications. <i>Crystals</i> , 2022, 12, 863.	2.2	1

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73	Ultrafast Electronic Relaxations in Metal Mixed-Ligand Dithiolene Complexes. , 2012, , .		0