M Elena Olmos

List of Publications by Year
in descending order

75 papers	2,370 citations	201674 27 h-index	223800 46 g-index
76 all docs	76 docs citations	76 times ranked	1603 citing authors

#	Article	IF	Citations
1	{Tl[Au(C6Cl5)2]}n:Â A Vapochromic Complex. Journal of the American Chemical Society, 2003, 125, 2022-2023.	13.7	207
2	Combining Aurophilic Interactions and Halogen Bonding To Control the Luminescence from Bimetallic Goldâ^'Silver Clusters. Journal of the American Chemical Society, 2010, 132, 456-457.	13.7	188
3	Making the Golden Connection: Reversible Mechanochemical and Vapochemical Switching of Luminescence from Bimetallic Goldâ€“Silver Clusters Associated through Aurophilic Interactions. Journal of the American Chemical Society, 2011, 133, 16358-16361.	13.7	119
4	Vapochromic Behavior of {Ag₂(Et₂O)₂[Au(C₆F₅)₂]₂}_n with Volatile Organic Compounds. Inorganic Chemistry, 2008, 47, 8069-8076.	4.1	110
5	A Detailed Study of the Vapochromic Behavior of {Tl[Au(C6Cl5)2]}n. Inorganic Chemistry, 2004, 43, 3573-3581.	4.0	104
6	Do Aurophilic Interactions Compete against Hydrogen Bonds? Experimental Evidence and Rationalization Based on ab Initio Calculations. Journal of the American Chemical Society, 2002, 124, 6781-6786.	13.7	83
7	Synthesis, Structure, and Photophysical Studies of Luminescent Two- and Three-Dimensional Goldâ^'Thallium Supramolecular Arrays. Inorganic Chemistry, 2002, 41, 1056-1063.	4.0	79
8	Photophysical and Theoretical Studies on Luminescent Tetranuclear Coinage Metal Building Blocks. Organometallics, 2006, 25, 3639-3646.	2.3	79
9	Theoretical and Photoluminescence Studies on the d10â€“s2 Aulâ€“Tll Interaction in Extended Unsupported Chains. Chemistry - A European Journal, 2003, 9, 456-465.	3.3	75
10	[Au2Tl2(C6Cl5)4]Â·(CH3)2CO:Â A Luminescent Loosely Bound Butterfly Cluster with a Tl(I)â^'Tl(I) Interaction. Journal of the American Chemical Society, 2002, 124, 5942-5943.	13.7	66
11	Experimental and theoretical evidence of the first Au(i)â‹¯Bi(iii) interaction. Chemical Communications, 2007, , 571-573.	4.1	62
12	Luminescent arylâ€“group eleven metal complexes. Dalton Transactions, 2017, 46, 2046-2067.	3.3	55
13	Unsupported Au(i)â‹¯Cu(i) interactions: influence of nitrile ligands and aurophilicity on the structure and luminescence. Dalton Transactions, 2009, , 7509.	3.3	51
14	Unsupported Gold(I)â^'Copper(I) Interactions through Î·1Au-[Au(C6F5)2]-Coordination to Cu+Lewis Acid Sites. Inorganic Chemistry, 2005, 44, 1163-1165.	4.0	48
15	Thallium(I) Acetylacetonate as Building Blocks of Luminescent Supramolecular Architectures. Organometallics, 2004, 23, 774-782.	2.3	47
16	Amalgamating at the molecular level. A study of the strong closed-shell Au(i)â‹¯Hg(ii) interaction. Chemical Communications, 2011, 47, 6795.	4.1	45
17	A Family of Auâ^'Tl Loosely Bound Butterfly Clusters. Inorganic Chemistry, 2005, 44, 6012-6018.	4.0	38
18	The gold(<scp>i</scp>)â‹¯lead(<scp>ii</scp>) interaction: a relativistic connection. Chemical Science, 2015, 6, 2022-2026.	7.4	37

#	Article	IF	Citations
19	Multiple Evidence for Gold(I)â‹…â‹…â‹…Silver(I) Interactions in Solution. Chemistry - A European Journal, 2009, 15, 6222-6233.	3.3	36
20	Auâ^'Tl Linear Chains as Lewis Acids toward [Au(C6X5)2]- Metalloligands:â€‰ The First Anionic Heteropolymetallic Chains. Organometallics, 2005, 24, 1631-1637.	2.3	35
21	2-(Diphenylphosphino)-pyridine as an Ambidentate Ligand in Homo-and Hetero-binuclear Complexes of Copper, Silver, and Gold. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1997, 52, 203-208.	0.7	34
22	Tuning the Luminescent Properties of a Ag/Au Tetranuclear Complex Featuring Metallophilic Interactions via Solvent-Dependent Structural Isomerization. Inorganic Chemistry, 2016, 55, 11299-11310.	4.0	33
23	Pyridine gold complexes. an emerging class of luminescent materials. Gold Bulletin, 2007, 40, 172-183.	2.7	31
24	Copper(<scp>i</scp>)-assisted red-shifted phosphorescence in Au(<scp>i</scp>)â‹¯Cu(<scp>i</scp>) heteropolynuclear complexes. Dalton Transactions, 2014, 43, 16486-16497.	3.3	31
25	Easy Ketimine Formation Assisted by Heteropolynuclear Goldâ^'Thallium Complexes. Organometallics, 2006, 25, 1689-1695.	2.3	30
26	Experimental and Theoretical Comparison of the Metallophilicity between d¹⁰â€“d¹⁰ Au^Iâ€“Hg^{II} and d⁸â€“d¹⁰ Au^{III}â€“Hg^{II} Interactions. Inorganic Chemistry, 2014, 53, 1275-1277.	4.0	30
27	Synthesis and plasmonic properties of monodisperse Auâ€“Ag alloy nanoparticles of different compositions from a single-source organometallic precursor. Journal of Materials Chemistry C, 2014, 2, 2975.	5.5	28
28	Study of the Nature of Closed-Shell Hg^{II}Â·Â·Â·M^I (M = Cu, Ag, Au) Interactions. Organometallics, 2015, 34, 3029-3038.	2.3	27
29	Influence of the Electronic Characteristics of N-Donor Ligands in the Excited State of Heteronuclear Gold(I)â€“Copper(I) Systems. Inorganic Chemistry, 2011, 50, 6910-6921.	4.0	25
30	1,2-Dibromo- and 1,2-Diiodotetrafluorobenzene as Precursors of Anionic Homo- and Heterometallic Gold Complexes. Organometallics, 2008, 27, 2971-2979.	2.3	24
31	Vapochromism in Complexes of Stoichiometry [Au2Ag2R4L2]n. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 1500-1512.	0.7	24
32	Tailor-Made Luminescent Polymers through Unusual Metallophilic Interaction Arrays AuÂ·Â·Â·AuÂ·Â·Â·AgÂ·Â·Â·Ag. Inorganic Chemistry, 2017, 56, 9281-9290.	4.0	23
33	Stimuli-Responsive Solvatochromic Au(I)â€“Ag(I) Clusters: Reactivity and Photophysical Properties Induced by the Nature of the Solvent. Inorganic Chemistry, 2019, 58, 1501-1512.	4.0	23
34	New Insights into the Au(I)Â·Â·Â·Pb(II) Closed-Shell Interaction: Tuning of the Emissive Properties with the Intermetallic Distance. Inorganic Chemistry, 2016, 55, 10523-10534.	4.0	22
35	Luminescent Gold(I)-Thallium(I) Arrays through N-Bidentate Building Blocks. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2004, 59, 1379-1386.	0.7	22
36	Heterometallic gold(i)â€“thallium(i) compounds with crown thioethers. Dalton Transactions, 2013, 42, 11559.	3.3	20

#	Article	IF	Citations
37	Long-Chain Ketimine Synthesis in a Goldâ^'Thallium Polymer. Organometallics, 2010, 29, 2951-2959.	2.3	19
38	Very Short Metallophilic Interactions Induced by Three-Centerâ€“Two-Electron Perhalophenyl Ligands in Phosphorescent Auâ€“Cu Complexes. Organometallics, 2012, 31, 3720-3729.	2.3	19
39	Double Photoinduced Jahnâ€“Teller Distortion of Tetrahedral Au^IïŁ¿Sn^{II} Complexes. ChemPlusChem, 2014, 79, 67-76.	2.8	19
40	Influence of the Number of Metallophilic Interactions and Structures on the Optical Properties of Heterometallic Au/Ag Complexes with Mixed-Donor Macrocyclic Ligands. Inorganic Chemistry, 2018, 57, 11099-11112.	4.0	19
41	Luminescent goldâ€“silver complexes derived from neutral bis(perfluoroaryl)diphosphine gold(i) precursors. Dalton Transactions, 2013, 42, 4267.	3.3	17
42	Influence of Crown Thioether Ligands in the Structures and of Perhalophenyl Groups in the Optical Properties of Complexes with Argentoaurophilic Interactions. Inorganic Chemistry, 2014, 53, 10471-10484.	4.0	16
43	Synthesis of the molecular amalgam [{AuHg₂(o-C₆F₄)₃}{Hg₃(o-C₆F₄)₃ a rare example of a heterometallic homoleptic metallacycle. Dalton Transactions, 2016, 45, 6334-6338.	3.3	16
44	Theoretical study of the closed-shell d10â€“d10 Au(I)â€“Cu(I) attraction in complexes in extended unsupported chains. Computational and Theoretical Chemistry, 2011, 965, 163-167.	2.5	15
45	Cooperative Au(I)Â·Â·Â·Au(I) Interactions and Hydrogen Bonding as Origin of a Luminescent Adeninate Hydrogel Formed by Ultrathin Molecular Nanowires. Inorganic Chemistry, 2018, 57, 3805-3817.	4.0	15
46	Lead encapsulation by a golden clamp through multiple electrostatic, metallophilic, hydrogen bonding and weak interactions. Chemical Communications, 2018, 54, 295-298.	4.1	15
47	Perhalophenyl Three-Coordinate Gold(I) Complexes as TADF Emitters: A Photophysical Study from Experimental and Computational Viewpoints. Inorganic Chemistry, 2020, 59, 14236-14244.	4.0	15
48	Intermetallic coinage metal-catalyzed functionalization of alkanes with ethyl diazoacetate: Gold as a ligand. Inorganica Chimica Acta, 2011, 369, 146-149.	2.4	14
49	Metal-Induced Phosphorescence in (Pentafluorophenyl)gold(III) Complexes. Organometallics, 2011, 30, 4486-4489.	2.3	13
50	Tuning Au(I)Â·Â·Â·Tl(I) Interactions via Mixed Thiaâ€“Aza Macrocyclic Ligands: Effects on the Structural and Luminescence Properties. Inorganic Chemistry, 2017, 56, 12551-12563.	4.0	13
51	The spontaneous formation and plasmonic properties of ultrathin goldâ€“silver nanorods and nanowires stabilized in oleic acid. Chemical Communications, 2015, 51, 16691-16694.	4.1	11
52	Rational Assembly of Metallophilic Gold(I)â€“Lead(II) and Gold(I)â€“Gold(I) Puzzle Pieces. Angewandte Chemie - International Edition, 2021, 60, 640-644.	13.8	11
53	Structural and Luminescence Properties of Heteronuclear Gold(I)/Thallium(I) Complexes Featuring Metallophilic Interactions Tuned by Quinoline Pendant Arm Derivatives of Mixed Donor Macrocycles. Inorganic Chemistry, 2020, 59, 6398-6409.	4.0	10
54	Ketimine synthesis in the coordination sphere of thallium (I). Inorganica Chimica Acta, 2010, 363, 1965-1969.	2.4	9

#	Article	IF	Citations
55	Basicity of bisperhalophenyl aurates toward closed-shell metal ions: metallophilicity and additional interactions. Theoretical Chemistry Accounts, 2011, 129, 593-602.	1.4	9
56	1,4-Bis(2â€²-pyridylethynyl)benzene as a ligand in heteronuclear goldâ€“thallium complexes. Influence of the ancillary ligands on their optical properties. Dalton Transactions, 2015, 44, 6719-6730.	3.3	9
57	Dispersive Forces and Dipole Moment Increase as Driving Forces for the Formation of an Unprecedented Metallophilic Heterotrimetallic System. Chemistry - A European Journal, 2018, 24, 13740-13743.	3.3	9
58	Theoretical studies on an unusual [Ag]+â‹¯[Au]â‹¯â‹¯[Au]â‹¯â‹¯[Ag]+ metallophilic pattern: Dispersive forces vs. classical coulomb forces. Computational and Theoretical Chemistry, 2014, 1030, 53-58.	2.5	8
59	New Au(<scp>i</scp>)â€“Cu(<scp>i</scp>) heterometallic complexes: the role of bridging pyridazine ligands in the presence of unsupported metallophilic interactions. Dalton Transactions, 2017, 46, 10941-10949.	3.3	7
60	Metallophilic Au(<scp>i</scp>)â‹¯M(<scp>i</scp>) interactions (M = Tl, Ag) in heteronuclear complexes with 1,4,7-triazacyclononane: structural features and optical properties. Dalton Transactions, 2020, 49, 10983-10993.	3.3	7
61	Versatile coordinative abilities of perhalophenyl-gold(I) fragments to Xantphos: Influence on the emissive properties. Journal of Organometallic Chemistry, 2020, 913, 121198.	1.8	7
62	Influence of perhalophenyl groups in the TADF mechanism of diphosphino gold(<scp>i</scp>) complexes. Journal of Materials Chemistry C, 2022, 10, 4894-4904.	5.5	7
63	Double Jahnâ€“Teller Distortion in AuGe Complexes Leading to a Dual Blueâ€“Orange Emission. ChemPlusChem, 2016, 81, 176-186.	2.8	6
64	Balancing ionic and H-bonding interactions for the formation of Au(<scp>i</scp>) hydrometallogels. Dalton Transactions, 2019, 48, 7519-7526.	3.3	6
65	Temperature-assisted formation of reversible metallophilic Auâ€“Ag interaction arrays. Dalton Transactions, 2019, 48, 5149-5155.	3.3	6
66	An improved plasmonic Auâ€“Ag/TiO2/rGO photocatalyst through entire visible range absorption, charge separation and high adsorption ability. New Journal of Chemistry, 2021, 45, 11727-11736.	2.8	6
67	Multidisciplinary study on the hydrogelation of the digold(<scp>i</scp>) complex [{Au(⁹N-adeninate)}₂(Î¼-dmpe)]: optical, rheological, and quasi-elastic neutron scattering perspectives. Inorganic Chemistry Frontiers, 2021, 8, 3707-3715.	6.0	5
68	Unequal coordination environment in complexes of the type [Au2Ag2(R)4(L)2]n. An immiscible solvent mixture as a key point in the control of ligand replacement. Dalton Transactions, 2018, 47, 3231-3238.	3.3	4
69	Time-Dependent Molecular Rearrangement of [Au(N⁹-adeninate)(PTA)] in Aqueous Solution and Aggregation-Induced Emission in a Hydrogel Matrix. Inorganic Chemistry, 2021, 60, 3667-3676.	4.0	4
70	Optical Properties in Heteronuclear Gold(I)/Silver(I) Complexes of Aliphatic Mixedâ€Donor Macrocycles Featuring Metallophilic Interactions. European Journal of Inorganic Chemistry, 2021, 2021, 4552-4559.	2.0	4
71	On the use of mixed thia/aza macrocycles in the development of fluorescent chemosensors for toxic heavy metals and fluorescent materials. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 682-688.	1.6	2
72	Zigzag vs Helicoidal Goldâ€“Silver 1D Chains: Influence of Subtle Interactions in the Spatial Arrangement of Supramolecular Systems. Inorganic Chemistry, 2020, 59, 9443-9451.	4.0	2

#	Article	IF	Citations
73	Rational Assembly of Metallophilic Gold(I)â€“Lead(II) and Gold(I)â€“Gold(I) Puzzle Pieces. Angewandte Chemie, 2021, 133, 650-654.	2.0	2
74	Computational prediction of Au(<scp>i</scp>)â€“Pb(<scp>ii</scp>) bonding in coordination complexes and study of the factors affecting the formation of Au(<scp>i</scp>)â€“E(<scp>ii</scp>) (E = Ge, Sn, Pb) covalent bonds. Physical Chemistry Chemical Physics, 2021, 23, 10174-10183.	2.8	2
75	Spontaneous in situ generation of photoemissive aurophilic oligomers in water solution based on the 2-thiocytosine ligand. RSC Advances, 2022, 12, 8466-8473.	3.6	1