

Elena Grachova

List of Publications by Year in descending order

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279798

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Crystallochemical formula as a tool for describing metal–ligand complexes – a pyridine-2,6-dicarboxylate example. <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 45-53.	1.8	157
2	Solid-State and Solution Metallophilic Aggregation of a Cationic [Pt(NCN)L] ⁺ Cyclometalated Complex. <i>Inorganic Chemistry</i> , 2016, 55, 3351-3363.	4.0	68
3	Synthesis of novel pyridyl containing phospholanes and their polynuclear luminescent copper(II) complexes. <i>Dalton Transactions</i> , 2016, 45, 2250-2260.	3.3	63
4	Aurophilicity in Action: Fine-Tuning the Gold(I)–Gold(I) Distance in the Excited State To Modulate the Emission in a Series of Dinuclear Homoleptic Gold(I)–NHC Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 4720-4732.	4.0	59
5	Toward Luminescence Vapochromism of Tetranuclear Au ^I –Cu ^I Clusters. <i>Organometallics</i> , 2013, 32, 4061-4069.	2.3	50
6	Inkjet Printing of Multicolor Daylight Visible Opal Holography. <i>Advanced Functional Materials</i> , 2018, 28, 1706903.	14.9	47
7	Oligophosphine-thiocyanate Copper(I) and Silver(I) Complexes and Their Borane Derivatives Showing Delayed Fluorescence. <i>Inorganic Chemistry</i> , 2019, 58, 3646-3660.	4.0	47
8	Tetragold(I) Complexes: Solution Isomerization and Tunable Solid-State Luminescence. <i>Inorganic Chemistry</i> , 2014, 53, 12720-12731.	4.0	45
9	Ligand effects on the structures of Rh ₆ (CO) ₁₅ L clusters. <i>Dalton Transactions RSC</i> , 2001, , 2015-2019.	2.3	43
10	Luminescent heterometallic gold–copper alkynyl complexes stabilized by tridentate phosphine. <i>Dalton Transactions</i> , 2012, 41, 2941.	3.3	41
11	Silver-Decorated TiO ₂ Inverse Opal Structure for Visible Light-Induced Photocatalytic Degradation of Organic Pollutants and Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41200-41210.	8.0	41
12	Coinage Metal Complexes Supported by the Tri- and Tetrakisphosphine Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 4705-4715.	4.0	39
13	Chromophore-Functionalized Phenanthro-diimine Ligands and Their Re(I) Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 6349-6361.	4.0	39
14	Improvement of the Photophysical Performance of Platinum–Cyclometalated Complexes in Halogen-Bonded Adducts. <i>Chemistry - A European Journal</i> , 2018, 24, 11475-11484.	3.3	39
15	Reactions of diacetylene ligands with trinuclear clusters II. Reactions of hexa-2,4-diyne-1,6-diol and 1,4-diphenyl-1,3-butadiyne with Ru ₃ (CO) ₁₂ . <i>Journal of Organometallic Chemistry</i> , 1997, 536-537, 339-343.	1.8	33
16	Tuning the luminescence of transition metal complexes with acyclic diaminocarbene ligands. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 417-439.	6.0	31
17	A stimuli-responsive Au(II) complex based on an aminomethylphosphine template: synthesis, crystalline phases and luminescence properties. <i>CrystEngComm</i> , 2016, 18, 7629-7635.	2.6	30
18	Heterometallic Cluster-Capped Tetrahedral Assemblies with Postsynthetic Modification of the Metal Cores. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14154-14158.	13.8	30

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19	Silver Alkynyl-Phosphine Clusters: An Electronic Effect of the Alkynes Defines Structural Diversity. <i>Organometallics</i> , 2017, 36, 480-489.	2.3	27
20	Gold(I) Alkynyls Supported by Mono- and Bidentate NHC Ligands: Luminescence and Isolation of Unprecedented Ionic Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 14771-14787.	4.0	27
21	Laser-induced transformation of supramolecular complexes: approach to controlled formation of hybrid multi-yolk-shell Au-Ag@a-C:H nanostructures. <i>Scientific Reports</i> , 2015, 5, 12027.	3.3	25
22	Low-Nuclearity Alkynyl d^{10} Clusters Supported by Chelating Multidentate Phosphines. <i>Organometallics</i> , 2016, 35, 3763-3774.	2.3	25
23	Harnessing Fluorescence versus Phosphorescence Ratio via Ancillary Ligand Fine-Tuned MLCT Contribution. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12196-12206.	3.1	25
24	Heteroleptic η^2 -diketonate Ln(III) complexes decorated with pyridyl substituted pyridazine ligands: synthesis, structure and luminescence properties. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3015-3027.	6.0	25
25	Keep it tight: a crucial role of bridging phosphine ligands in the design and optical properties of multinuclear coinage metal complexes. <i>Dalton Transactions</i> , 2021, 50, 6003-6033.	3.3	25
26	A rare example of a compact heteroleptic cyclometalated iridium(III) complex demonstrating well-separated dual emission. <i>Dalton Transactions</i> , 2018, 47, 7578-7586.	3.3	22
27	Luminescent Au ^I -Cu ^I Triphosphane Clusters That Contain Extended Linear Arylacetylenes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4048-4056.	2.0	21
28	Luminescent Gold(I) Alkynyl Clusters Stabilized by Flexible Diphosphine Ligands. <i>Organometallics</i> , 2014, 33, 2363-2371.	2.3	21
29	Photophysics and Excited State Dynamics of Cyclometalated [M(Phbpv)(CN)] (M = Ni, Pd, Pt) Complexes: A Theoretical and Experimental Study. <i>Inorganic Chemistry</i> , 2021, 60, 8777-8789.	4.0	21
30	The structure and dynamic behaviour of disubstituted derivatives of [Rh ₆ (CO) ₁₆] containing heterobidentate bridging phosphine ligands. <i>Dalton Transactions</i> , 2003, , 2468.	3.3	20
31	New Supramolecular Au ^I -Cu ^I Complex as Potential Luminescent Label for Proteins. <i>Inorganic Chemistry</i> , 2013, 52, 12521-12528.	4.0	19
32	Synthesis and structural characterisation of the mixed metal clusters [Rh ₂ Pt ₃ (η^4 -CO) ₅ (CO) ₄ (PPh ₃) ₃] and [Rh ₂ Pt ₂ (η^4 -CO) ₃ (CO) ₄ (PPh ₃) ₃]; crystal structure of [Rh ₂ Pt ₃ (η^4 -CO) ₅ (CO) ₄ (PPh ₃) ₃]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 1609-1614.	1.1	18
33	Metallophilicity-assisted assembly of phosphine-based cage molecules. <i>Dalton Transactions</i> , 2014, 43, 6236.	3.3	18
34	A new heterocyclic skeleton with highly tunable absorption/emission wavelength via H-bonding. <i>RSC Advances</i> , 2015, 5, 94551-94561.	3.6	18
35	Synthesis, photophysical properties and cation-binding studies of bipyridine-functionalized gold(I) complexes. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 160-171.	6.0	18
36	Modulation of Metallophilic and π - π Interactions in Platinum Cyclometalated Luminophores with Halogen Bonding. <i>Chemistry - A European Journal</i> , 2021, 27, 1787-1794.	3.3	18

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37	Stereochemical nonrigidity of [Rh6(CO)15L] clusters in solution Electronic supplementary information (ESI) available; the relationship between the rate of S-type exchange in [Rh6(CO)15(PR3)] and the pKa values of the phosphine ligand. See http://www.rsc.org/suppdata/dt/b1/b101962g . Dalton Transactions RSC, 2001, , 3303-3311.	2.3	17
38	Unusual selective substitution of triply bridging carbonyl ligands for GaCp* in Rh6(CO)16. Synthesis and structural characterization of the Rh6(μ3-CO)4 μx(μ3-GaCp*)x(CO)12 clusters, x = 1-4. Dalton Transactions RSC, 2002, , 302.	2.3	17
39	Insight into Bio-metal Interface Formation in vacuo: Interplay of S-layer Protein with Copper and Iron. Scientific Reports, 2015, 5, 8710.	3.3	17
40	Adjustable coordination of a hybrid phosphine-phosphine oxide ligand in luminescent Cu, Ag and Au complexes. Dalton Transactions, 2016, 45, 14160-14173.	3.3	17
41	Luminescence Thermochromism of Gold(I) Phosphane-Iodide Complexes: A Rule or an Exception?. Chemistry - A European Journal, 2018, 24, 3021-3029.	3.3	16
42	Solvatochromic dual luminescence of Eu-Au dyads decorated with chromophore phosphines. Inorganic Chemistry Frontiers, 2020, 7, 140-149.	6.0	16
43	Diversifying the luminescence of phenanthro-diimine ligands in zinc complexes. Inorganic Chemistry Frontiers, 2021, 8, 2549-2560.	6.0	16
44	Binuclear Gold(I) Phosphine Alkynyl Complexes Templated on a Flexible Cyclic Phosphine Ligand: Synthesis and Some Features of Solid-State Luminescence. Inorganic Chemistry, 2020, 59, 244-253.	4.0	15
45	Luminescence behaviour of Au-Cu heterobimetallic coordination polymers based on alkynyl-tris(2-pyridyl)phosphine Au complexes. Dalton Transactions, 2020, 49, 13430-13439.	3.3	15
46	The structure and dynamic behaviour of disubstituted derivatives of [Rh6(CO)16] containing bidentate phosphorus ligands. Inorganica Chimica Acta, 2003, 354, 11-20.	2.4	14
47	Polynuclear cage-like Au phosphane complexes based on a S2 template: observation of multiple luminescence in coordinated polyaromatic systems. Dalton Transactions, 2017, 46, 2516-2523.	3.3	14
48	Supramolecular Au-Cu Complexes as New Luminescent Labels for Covalent Bioconjugation. Bioconjugate Chemistry, 2016, 27, 143-150.	3.6	13
49	Self-assemble nanoparticles based on polypeptides containing C-terminal luminescent Pt-cysteine complex. Scientific Reports, 2017, 7, 41991.	3.3	13
50	Reactions of diphenylpyridylphosphine with H2Os3(CO)10 and H4Ru4(CO)12, P-C bond splitting in the coordinated ligand and isolation of the oxidative addition products. Journal of Organometallic Chemistry, 2006, 691, 111-121.	1.8	12
51	Ferrocenyl-Functionalized Tetranuclear Gold(I) and Gold(I)-Copper(I) Complexes Based on Tridentate Phosphanes. European Journal of Inorganic Chemistry, 2013, 2013, n/a-n/a.	2.0	12
52	Supramolecular Construction of Cyanide-Bridged Rel Diimine Multichromophores. Inorganic Chemistry, 2019, 58, 1988-2000.	4.0	12
53	Ditopic Phosphide Oxide Group: A Rigidifying Lewis Base to Switch Luminescence and Reactivity of a Disilver Complex. Journal of the American Chemical Society, 2021, 143, 15045-15055.	13.7	12
54	Gold(I)-Alkynyl Complexes with an N-Donor Heterocyclic Ligand: Synthesis and Photophysical Properties. European Journal of Inorganic Chemistry, 2017, 2017, 4180-4186.	2.0	11

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55	Controllable Synthesis and Luminescence Behavior of Tetrahedral Au@Cu ₄ and Au@Ag ₄ Clusters Supported by tris(2-Pyridyl)phosphine. <i>Inorganic Chemistry</i> , 2022, 61, 10925-10933.	4.0	11
56	Novel rhodium and ruthenium carbonyl cluster complexes with face- and edge-bridging GaCp* ligands. Synthesis and structural characterization of the Rh ₆ (CO) ₁₂ (μ ₃ -GaCp*) ₄ and Ru ₆ (μ ₆ -C)(μ ₂ -CO)(CO) ₁₃ (μ ₃ -GaCp*) ₂ (μ ₂ -GaCp*) clusters. <i>Dalton Transactions</i> , 2005, , 3614.	3.3	10
57	Reactivity of InCp* Towards Transition Metal Carbonyl Clusters: Synthesis and Structural Characterization of the Rh ₆ (CO) ₁₆ (InCp*) _x Mixed-Metal Cluster Compounds, x = 1–2. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3561-3564.	2.0	10
58	Rhenium(I) Complexes with Alkynylphosphane Ligands: Structural, Photophysical, and Theoretical Studies. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 864-875.	2.0	10
59	Linking Re ^I and Pt ^{II} Chromophores with Aminopyridines: A Simple Route to Achieve a Complicated Photophysical Behavior. <i>Chemistry - A European Journal</i> , 2017, 23, 11301-11311.	3.3	10
60	Self-Assembled Supramolecular Complexes with Rods-in-Belt Architecture in the Light of Soft X-rays. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12385-12392.	3.1	9
61	A model electrode of well-defined geometry prepared by direct laser-induced decoration of nanoporous templates with Au@Ag@C nanoparticles. <i>Nanotechnology</i> , 2017, 28, 065405.	2.6	9
62	Synthesis and structural characterization of two novel heterometallic clusters: [Rh ₄ Pt ₂ (CO) ₁₁ (dppm) ₂] and [Ru ₂ Rh ₂ Pt ₂ (CO) ₁₂ (dppm) ₂]. <i>Dalton Transactions</i> , 2004, , 3893.	3.3	8
63	Reactions of GaCp* with a Hemilabile Derivative of Rh ₆ (CO) ₁₆ Synthesis and Structural Characterization of Two Novel Heterometallic Clusters: Rh ₆ (CO) ₁₃ (μ ₄ , μ ₃ -Ph ₂ PC ₂ H ₃)(μ ₄ -GaCp*) and Rh ₆ (CO) ₁₃ (μ ₃ -Ph ₂ PC ₂ H ₃)(μ ₄ -GaCp*) ₂ . <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 140-146.	2.0	8
64	Syntheses, Structures, and Photophysical Properties of Eu and Lu Diketonates with a Neutral Polydentate Imidazolylmethanamine Ligand. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 1734-1743.	2.0	8
65	Cyclometalated Ir(III) complexes as tuneable multiband light sources for optical multisensor systems: Feasibility study. <i>Dyes and Pigments</i> , 2020, 180, 108428.	3.7	8
66	So Close, Yet so Different: How One Donor Atom Changes Significantly the Photophysical Properties of Mononuclear Cu(I) Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 11629-11638.	4.0	8
67	Luminescence Switching of a Gold-Copper Supramolecular Complex: A Physical Insight. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25541-25547.	3.1	7
68	Hexavanadate-Organogold(I) Hybrid Compounds: Synthesis by the Azide-Alkyne Cycloaddition and Density Functional Theory Study of an Intriguing Electron Density Distribution. <i>Inorganic Chemistry</i> , 2020, 59, 16122-16126.	4.0	7
69	Design of Supramolecular Cluster Compounds of Copper Subgroup Metals Based on Polydentate Phosphine Ligands. <i>Russian Journal of General Chemistry</i> , 2019, 89, 1102-1114.	0.8	6
70	Just Add the Gold: Aggregation-Induced-Emission Properties of Alkynylphosphinegold(I) Complexes Functionalized with Phenylene-Terpyridine Subunits. <i>Inorganic Chemistry</i> , 2021, 60, 18715-18725.	4.0	6
71	Bidentate Phosphine Oxides as Ligands to form Ga ^{III} Shell Complexes. [Ga(CH ₂) ₂ (P(O)Ph) ₂] ₃ : Synthesis, Structural and Spectroscopic Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 2294-2296.	1.2	5
72	A curious interplay in the films of N-heterocyclic carbene PtII complexes upon deposition of alkali metals. <i>Scientific Reports</i> , 2016, 6, 25548.	3.3	5

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73	Functionalizing Collagen with Vessel-Penetrating Two-Photon Phosphorescence Probes: A New In Vivo Strategy to Map Oxygen Concentration in Tumor Microenvironment and Tissue Ischemia. <i>Advanced Science</i> , 2021, 8, e2102788.	11.2	5
74	Re(I) Complexes as Backbone Substituents and Cross-Linking Agents for Hybrid Luminescent Polysiloxanes and Silicone Rubbers. <i>Molecules</i> , 2021, 26, 6866.	3.8	5
75	Reactions of rhodium carbonyl clusters with heterobidentate ligands. Synthesis and structural characterization of the $Rh_6(CO)_{15}[(C_6H_5)_2PC_6H_4N(CH_3)_2]$ and $\{Rh_6(CO)_{15}[(C_6H_5)_2PC_6H_4NH(CH_3)_2]\}_n$ cluster compounds. <i>Russian Journal of General Chemistry</i> , 2010, 80, 414-422.	0.8	4
76	Synthesis and crystal structure of $Na_4[Er_2(EDTA)_2] \cdot 8H_2O$ (where EDTA stands for) $Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50$	1.3	4
77	Comment on "The ligand polyhedral model approach to the mechanism of complete carbonyl exchange in $[Rh_4(CO)_{12}]$ and $[Rh_6(CO)_{16}]$ " by Brian F. G. Johnson, <i>Dalton Transactions</i> , 2015, 44, DOI: 10.1039/C4DT03360D. <i>Dalton Transactions</i> , 2015, 44, 16611-16613.	3.3	4
78	Heterometallic Cluster-Capped Tetrahedral Assemblies with Postsynthetic Modification of the Metal Cores. <i>Angewandte Chemie</i> , 2018, 130, 14350-14354.	2.0	4
79	Reactions of carbonyl clusters with heterobidentate ligands. Synthesis and structural characterization of $H_4Ru_4(CO)_{10}[k_2(P,S)-Ph_2P(2-CH_3SC_6H_4)]$ and $Rh_6(CO)_{14}[k_2(P,S)-Ph_2P(2-CH_3SC_6H_4)]$ clusters. <i>Russian Journal of General Chemistry</i> , 2006, 76, 682-686.	0.8	3
80	Structure and dynamic properties of substituted carbonylhydride clusters $H_2RuOs_3(CO)_{13}$ and $H_4Ru_4(CO)_{12}$ containing functionalized phosphines. <i>Russian Chemical Bulletin</i> , 2007, 56, 1343-1350.	1.5	3
81	Luminescent copper(I) and gold(I) complexes of 1,5-diaza-3,7-diphosphacyclooctanes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 1518-1519.	1.6	3
82	Binuclear luminescent Pt(II) complexes based on substituted 3,6-diphenylpyridazines; synthesis and photophysical study. <i>Journal of Organometallic Chemistry</i> , 2018, 867, 367-374.	1.8	3
83	Cu(I)-based molecular emitters for quantification of fluoride and phosphate in surface waters. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 184, 109976.	5.0	3
84	The solid-state, solution and gas-phase interactions of diphosphane monooxide spacers with heavier group 8,9 transition metals and gallium in novel organometallic assemblies: An experimental and computational study. <i>Journal of Organometallic Chemistry</i> , 2012, 714, 22-31.	1.8	2
85	Insight into the electronic structure of the supramolecular "rods-in-belt" $AuCu$ and $AuAg$ self-assembled complexes from X-ray photoelectron and absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 192, 26-34.	1.7	2
86	Efficient photoswitchable organometallic complexes with azobenzene and stilbene units: the case of $Au(I)$. <i>Molecular Systems Design and Engineering</i> , 0, .	3.4	2
87	Structure, Stereochemistry and Dynamics of Tetranuclear Polyhydride Clusters Containing Chiral Heterobidentate Phosphanes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 2515-2526.	1.2	1
88	Reaction of chiral pyrrolylphosphine with polynuclear carbonyl complexes of osmium and rhodium. <i>Russian Journal of General Chemistry</i> , 2010, 80, 408-413.	0.8	1
89	The Tail Wags the Dog: The Far Periphery of the Coordination Environment Manipulates the Photophysical Properties of Heteroleptic Cu(I) Complexes. <i>Molecules</i> , 2022, 27, 2250.	3.8	1
90	Molecular Emitters as a Tunable Light Source for Optical Multisensor Systems. <i>Chemistry Proceedings</i> , 2021, 5, .	0.1	0