

Thomas G Gray

List of Publications by Year in descending order

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times ranked

3017
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#	ARTICLE	IF	CITATIONS
1	Spectroscopic and Photophysical Properties of Hexanuclear Rhenium(III) Chalcogenide Clusters. <i>Journal of the American Chemical Society</i> , 2003, 125, 4755-4770.	13.7	179
2	Relativistic Functional Groups: Aryl Carbon-Gold Bond Formation by Selective Transmetalation of Boronic Acids. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8188-8191.	13.8	169
3	Synthesis, Structure, and CO ₂ Reactivity of a Two-Coordinate (Carbene)copper(I) Methyl Complex. <i>Organometallics</i> , 2004, 23, 1191-1193.	2.3	162
4	Highly Efficient Red-Emitting Bis-Cyclometalated Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 10198-10207.	13.7	149
5	A Carbene-Stabilized Gold(I) Fluoride: Synthesis and Theory. <i>Organometallics</i> , 2005, 24, 4503-4505.	2.3	138
6	Synthesis and Structures of Solvated Monoclusters and Bridged Di- and Triclusters Based on the Cubic Building Block [Re ₆ (S ₄ -Se) ₈] ²⁺ . <i>Inorganic Chemistry</i> , 1999, 38, 4888-4895.	4.0	117
7	Highly Emissive Hexanuclear Rhenium(III) Clusters Containing the Cubic Cores [Re ₆ S ₈] ²⁺ and [Re ₆ Se ₈] ²⁺ . <i>Inorganic Chemistry</i> , 1999, 38, 5932-5933.	4.0	117
8	Carbon-Gold Bond Formation through [3 + 2] Cycloaddition Reactions of Gold(I) Azides and Terminal Alkynes. <i>Organometallics</i> , 2007, 26, 183-186.	2.3	111
9	Synthesis of a Trigold Monocation: An Isolobal Analogue of [H ₃] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12077-12080.	13.8	107
10	Copper-Catalyzed Huisgen [3 + 2] Cycloaddition of Gold(I) Alkynyls with Benzyl Azide. <i>Syntheses, Structures, and Optical Properties</i> . <i>Organometallics</i> , 2009, 28, 6171-6182.	2.3	93
11	Bonding and Reactivity of a μ_4 -Hydrido Dicopper Cation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12920-12923.	13.8	88
12	Gold(I) Pyrenyls: Excited-State Consequences of Carbon-Gold Bond Formation. <i>Organometallics</i> , 2007, 26, 3279-3282.	2.3	86
13	Mono- and Di-Gold(I) Naphthalenes and Pyrenes: Syntheses, Crystal Structures, and Photophysics. <i>Organometallics</i> , 2009, 28, 5669-5681.	2.3	85
14	Geminally Diaurated Gold(I) Aryls from Boronic Acids. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5924-5928.	13.8	85
15	Dialkylbiarylphosphine Complexes of Gold(I) Halides. Gold-Aryl Interactions in the Solid State. <i>Organometallics</i> , 2008, 27, 28-32.	2.3	83
16	Luminescent, Three-Coordinate Azadipyromethene Complexes of d ¹⁰ Copper, Silver, and Gold. <i>Inorganic Chemistry</i> , 2007, 46, 6218-6220.	4.0	76
17	Homoleptic, Four-Coordinate Azadipyromethene Complexes of d ¹⁰ Zinc and Mercury. <i>Inorganic Chemistry</i> , 2008, 47, 2338-2346.	4.0	72
18	Probing the Steric Limits of Carbon-Gold Bond Formation: (Dialkylbiarylphosphine)gold(I) Aryls. <i>Organometallics</i> , 2009, 28, 1666-1674.	2.3	67

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19	Cooperative Bimetallic Reactivity: Hydrogen Activation in Two-Electron Mixed-Valence Compounds. <i>Journal of the American Chemical Society</i> , 2004, 126, 9760-9768.	13.7	66
20	Vitrimerization: Converting Thermoset Polymers into Vitrimers. <i>ACS Macro Letters</i> , 2020, 9, 836-842.	4.8	59
21	Subpicosecond Intersystem Crossing in Mono- and Di(organophosphine)gold(I) Naphthalene Derivatives in Solution. <i>Journal of the American Chemical Society</i> , 2012, 134, 14808-14817.	13.7	58
22	η^5 -Tricarbonyl Rhenium(I) Azadipyrromethene Complexes. <i>Organometallics</i> , 2009, 28, 5837-5840.	2.3	56
23	Synthesis, Structures, and Excited-State Geometries of Alkynylgold(I) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2711-2719.	2.0	48
24	Arylgold(I) Complexes from Base-Assisted Transmetalation: Structures, NMR Properties, and Density-Functional Theory Calculations. <i>Inorganic Chemistry</i> , 2012, 51, 8394-8401.	4.0	45
25	Gold-Containing Indoles as Anticancer Agents That Potentiate the Cytotoxic Effects of Ionizing Radiation. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 2437-2451.	6.4	41
26	Constrained Digold(I) Diaryls: Syntheses, Crystal Structures, and Photophysics. <i>Chemistry - A European Journal</i> , 2012, 18, 2100-2112.	3.3	41
27	Facile Synthesis of (Phosphine)- and η^5 -heterocyclic Carbene)Gold(I) and Silver(I) Azide Complexes. <i>Organometallics</i> , 2009, 28, 795-801.	2.3	36
28	Excited-State Distortion of Rhenium(III) Sulfide and Selenide Clusters. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3238-3243.	2.5	35
29	Site-Differentiated Hexanuclear Rhenium(III) Cyanide Clusters $[\text{Re}_6\text{Se}_8(\text{PEt}_3)_n(\text{CN})_{6-n}]^{n-4}$ ($n = 4, 5$) and Kinetics of Solvate Ligand Exchange on the Cubic $[\text{Re}_6\text{Se}_8]^{2+}$ Core. <i>Inorganic Chemistry</i> , 2002, 41, 4211-4216.	4.0	34
30	Divergent Electronic Structures of Isoelectronic Metalloclusters: Tungsten(II) Halides and Rhenium(III) Chalcogenide Halides. <i>Chemistry - A European Journal</i> , 2009, 15, 2581-2593.	3.3	34
31	Recycling Epoxy by Vitrimerization: Influence of an Initial Thermoset Chemical Structure. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12706-12712.	6.7	34
32	Suzuki-Miyaura coupling of arylboronic acids to gold(I). <i>Chemical Science</i> , 2015, 6, 981-986.	7.4	33
33	Cellulose Nanocrystals: Accelerator and Reinforcing Filler for Epoxy Vitrimerization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3419-3425.	8.0	33
34	Excited-State Dynamics of (Organophosphine)gold(I) Pyrenyl Isomers. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1205-1211.	4.6	31
35	Three-Coordinate, Phosphine-Ligated Azadipyrromethene Complexes of Univalent Group 11 Metals. <i>Inorganic Chemistry</i> , 2009, 48, 8134-8144.	4.0	30
36	Gold(I) triazolyls: organometallic synthesis in air and aqueous media. <i>Chemical Communications</i> , 2013, 49, 5990.	4.1	30

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37	Gold(i) halide complexes of bis(diphenylphosphine)diphenyl ether ligands: a balance of ligand strain and non-covalent interactions. Dalton Transactions, 2010, 39, 5388.	3.3	29
38	Photophysical properties of organogold(<i>i</i>) complexes bearing a benzothiazole-2,7-fluorenyl moiety: selection of ancillary ligand influences white light emission. Dalton Transactions, 2019, 48, 15917-15927.	3.3	28
39	A porphyrin complex of Gold(I): (Phosphine)gold(I) azides as cation precursors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14293-14297.	7.1	27
40	Cyclometalated Iridium(III) Complexes with Deoxyribose Substituents. Chemistry - A European Journal, 2013, 19, 15924-15932.	3.3	27
41	Rapid synthesis of arylgold compounds using dielectric heating. Dalton Transactions, 2012, 41, 13274.	3.3	26
42	Gold(I) Complexes of Brominated Azadipyromethene Ligands. Inorganic Chemistry, 2012, 51, 7682-7688.	4.0	26
43	Room-temperature synthesis of cyclometalated iridium(III) complexes: kinetic isomers and reactive functionalities. Chemical Science, 2013, 4, 1175.	7.4	26
44	Cytotoxic gold(i)-bearing dendrimers from alkyne precursors. Dalton Transactions, 2011, 40, 8083.	3.3	25
45	Catalyst-Free Mechanochemical Recycling of Biobased Epoxy with Cellulose Nanocrystals. ACS Applied Bio Materials, 2021, 4, 4176-4183.	4.6	25
46	Azido, Triazolyl, and Alkynyl Complexes of Gold(I): Syntheses, Structures, and Ligand Effects. Inorganic Chemistry, 2013, 52, 9659-9668.	4.0	24
47	Gold(I) Styrylbenzene, Distyrylbenzene, and Distyrylnaphthalene Complexes: High Emission Quantum Yields at Room Temperature. Chemistry - A European Journal, 2012, 18, 6316-6327.	3.3	23
48	GILDED ORGANOMETALLICS. Comments on Inorganic Chemistry, 2007, 28, 181-212.	5.2	21
49	Cyclometalated Iridium(III) Complexes of Azadipyromethene Chromophores. Organometallics, 2014, 33, 637-643.	2.3	21
50	Fluoride Complexes of Cyclometalated Iridium(III). Organometallics, 2015, 34, 109-120.	2.3	21
51	A model for two-electron mixed valence in metal-metal bonded dirhodium compounds. Chemical Communications, 2005, , 1540-1542.	4.1	20
52	Bonding and Reactivity of a Dicopper(I) $\frac{1}{4}$ -Boryl Cation. Organometallics, 2016, 35, 71-74.	2.3	19
53	Geminally Diaurated Aryls Bridged by Semirigid Phosphine Pillars: Syntheses and Electronic Structure. Chemistry - A European Journal, 2014, 20, 17552-17564.	3.3	17
54	Cyclometalated (boroxinato)gold(<i>iii</i>) complexes from arrested transmetalation. Chemical Communications, 2015, 51, 15800-15803.	4.1	17

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55	Chemistry of C-Trimethylsilyl-Substituted Heterocarboranes. 26. Further Investigation of Oxidative Cage Closure, Cage Fusion, and Cage Isomerizations: Synthetic, Structural, and Bonding Studies on Carbons Adjacent and Carbons Apart Tetracarba-nido-dodecaborane(12) Derivatives. <i>Organometallics</i> , 1998, 17, 5294-5309.	2.3	16
56	Red-Shifts upon Metal Binding: A Di-Gold(I)-Substituted Bithiophene. <i>Organometallics</i> , 2011, 30, 5071-5074.	2.3	13
57	Facile syntheses of homoleptic diarylmercurials via arylboronic acids. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 213-218.	1.8	12
58	Synthesis and photophysics of gold(I) alkynyls bearing a benzothiazole-2,7-fluorenyl moiety: a comparative study analyzing influence of ancillary ligand, bridging moiety, and number of metal centers on photophysical properties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11915-11927.	2.8	12
59	Room-Temperature Phosphorescent Platinum(II) Alkynyls with Microsecond Lifetimes Bearing a Strong-Field Pincer Ligand. <i>Chemistry - A European Journal</i> , 2020, 26, 8417-8425.	3.3	12
60	A tri-gold triazolide with long-lived luminescence. <i>Journal of Organometallic Chemistry</i> , 2016, 818, 68-71.	1.8	11
61	A zinc(II) complex of di(naphthylethynyl)azadipyromethene with low synthetic complexity leads to OPV with high industrial accessibility. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24614-24625.	10.3	11
62	Synthesis and Photophysical Properties of Laterally Asymmetric Digold(I) Alkynyls and Triazolyl: Ancillary Ligand and Organic Functionality Dictate Excited-State Dynamics. <i>Organometallics</i> , 2020, 39, 489-494.	2.3	11
63	Cyclometalated gold(III) trioxadiborin complexes: studies of the bonding and excited states. <i>Dalton Transactions</i> , 2016, 45, 3820-3830.	3.3	10
64	(Isonitrile)platinum(II) Complexes of an Amido Bis(N-heterocyclic carbene) Pincer Ligand. <i>Organometallics</i> , 2020, 39, 1667-1671.	2.3	10
65	Synthetically Tunable White-, Green-, and Yellow-Green-Light Emission in Dual-Luminescent Gold(I) Complexes Bearing a Diphenylamino-2,7-fluorenyl Moiety. <i>Inorganic Chemistry</i> , 2022, 61, 1228-1235.	4.0	10
66	A Metal-containing Nucleoside That Possesses Both Therapeutic and Diagnostic Activity against Cancer. <i>Journal of Biological Chemistry</i> , 2015, 290, 9714-9726.	3.4	8
67	$\hat{\Gamma}^2$ -Diketiminato-supported iridium photosensitizers with increased excited-state reducing power. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3253-3265.	6.0	8
68	9-Borabicyclononane Bipyridyl Complexes: Synthesis, Luminescence, and Electronic Characterization. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 3738-3745.	2.0	3
69	Enhancing Charge Transfer in (BIMCA)Pt(II) Alkynyls through the Use of Substituted Boranes. <i>Organometallics</i> , 2021, 40, 1555-1559.	2.3	3
70	Two-photon absorption characterization and comparison of Au(I) fluorenyl benzothiazole complexes in the visible wavelength regime. <i>Applied Optics</i> , 2021, 60, G199.	1.8	2
71	Richard Hadley Holm: A Remembrance and A Tribute. <i>Comments on Inorganic Chemistry</i> , 2022, 42, 61-108.	5.2	2
72	Photoactive Gold Organometallics Bearing Substituted 2,7-Fluorenyl Moieties. , 2020, , .		1

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73	Excited-State Properties of (Alkynyl)Gold(I) Fluorenyls. , 2021, , .		0
74	Organogold(I) fluorenyls: excited-state properties. , 2022, , .		0