

Helgard G Raubenheimer

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Beyond Conventional <i>N</i> -Heterocyclic Carbenes: Abnormal, Remote, and Other Classes of NHC Ligands with Reduced Heteroatom Stabilization. <i>Chemical Reviews</i> , 2009, 109, 3445-3478.	47.7	998
2	The gold-hydrogen bond, Au-H, and the hydrogen bond to gold, Au-H-X. <i>Chemical Society Reviews</i> , 2014, 43, 345-380.	38.1	191
3	Carbene complexes of gold: preparation, medical application and bonding. <i>Chemical Society Reviews</i> , 2008, 37, 1998.	38.1	190
4	Permeability of a Seemingly Nonporous Crystal Formed by a Discrete Metallocyclic Complex. <i>Journal of the American Chemical Society</i> , 2006, 128, 698-699.	13.7	137
5	A Discrete Metallocyclic Complex that Retains Its Solvent-Templated Channel Structure on Guest Removal to Yield a Porous, Gas Sorbing Material. <i>Journal of the American Chemical Society</i> , 2005, 127, 13134-13135.	13.7	123
6	One-N, six-membered heterocyclic carbene complexes and the remote heteroatom concept. <i>Dalton Transactions</i> , 2008, , 1265-1272.	3.3	85
7	Metathesis of 1-Octene in Ionic Liquids and Other Solvents: Effects of Substrate Solubility, Solvent Polarity and Impurities. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1934-1941.	4.3	79
8	A first structural and theoretical comparison of pyridinylidene-type rNHC (remote N-heterocyclic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 1226-1233.	3.3	78
9	Carbene complexes derived from lithiated heterocycles, mainly azoles, by transmetallation. <i>Journal of Organometallic Chemistry</i> , 2001, 617-618, 170-181.	1.8	74
10	Pyridine-Derived N-Heterocyclic Carbenes: An Experimental and Theoretical Evaluation of the Bonding in and Reactivity of Selected Normal and Abnormal Complexes of Nickel(II) and Palladium(II). <i>Organometallics</i> , 2010, 29, 5821-5833.	2.3	69
11	A cytotoxic bis(carbene)gold(i) complex of ferrocenyl complexes: synthesis and structural characterisation. <i>New Journal of Chemistry</i> , 2008, 32, 533-539.	2.8	68
12	Formation and Reactions of Organosulfur and Organoselenium Organometallic Compounds. <i>Advances in Organometallic Chemistry</i> , 1991, , 1-119.	1.0	61
13	Excimer and Exciplex Formation in Gold(I) Complexes Preconditioned by Auophilic Interactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14748-14771.	13.8	60
14	Extending the NHC Concept: C-C Coupling Catalysis by a PdII Carbene (rNHC) Complex with Remote Heteroatoms. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2973-2977.	2.0	59
15	The Late Start and Amazing Upswing in Gold Chemistry. <i>Journal of Chemical Education</i> , 2014, 91, 2024-2036.	2.3	57
16	Investigation of the Melting and Crystallization Behavior of Random Propene/1-Olefin Copolymers by DSC and CRYSTAF. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1281-1288.	2.2	52
17	Characterization of mono(carbene) and bis(carbene) complexes of gold(I) derived from lithiated pyridine. <i>Journal of Organometallic Chemistry</i> , 1994, 466, 291-295.	1.8	49
18	Synthesis of the First rNHC (Remote N-Heterocyclic Carbene) Complexes with No Heteroatom in the Carbene Carbon-Containing Ring. <i>Inorganic Chemistry</i> , 2006, 45, 7997-7999.	4.0	49

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19	Preparation and characterisation of palladium, platinum and manganese di(organo)carbene complexes from quinolinone and quinolinium precursors Electronic supplementary information (ESI) available: Fig. S1: Unit cell diagram of 5. Table S1: ¹ H and ¹³ C-{ ¹ H} NMR data of ligand precursors 1a and 2. See http://www.rsc.org/suppdata/dt/b3/b314217p/ . Dalton Transactions, 2004, , 413.	3.3	47
20	Pyridin- and quinolinylidene nickel carbene complexes as effective catalysts for the Grignard cross-coupling reaction. Journal of Molecular Catalysis A, 2007, 265, 50-58.	4.8	47
21	The copolymerization of propylene with higher, linear α -olefins. Journal of Polymer Science Part A, 2000, 38, 4110-4118.	2.3	46
22	Electrophilic Addition of Ph ₃ PAu ⁺ to Anionic Alkoxy Fischer-Type Carbene Complexes: A Novel Approach to Metal-Stabilized Bimetallic Vinyl Ether Complexes. Organometallics, 2002, 21, 3173-3181.	2.3	46
23	Structural Studies of Gold(I, II, and III) Compounds with Pentafluorophenyl and Tetrahydrothiophene Ligands. Angewandte Chemie - International Edition, 2007, 46, 2497-2500.	13.8	45
24	Synthesis and characterisation of organometallic imidazolium compounds that include a new organometallic ionic liquid. Dalton Transactions, 2003, , 4275-4281.	3.3	43
25	Sulfur-containing metal complexes. 12. Reactions of α -thio carbanions with carbene complexes of the type [M(CO) ₅ [O(alkyl)Ar]] and with the carbyne [(η -5-MeC ₅ H ₄)Mn(CO) ₂ (CPh)][BCl ₄]. Organometallics, 1985, 4, 275-284.	2.3	39
26	Preparation of Remote NHC Complexes of Rhodium(I) and Gold(I) by Ligand Transfer. European Journal of Inorganic Chemistry, 2009, 2009, 1905-1912.	2.0	39
27	Gold coordination during homogeneous alkyne and allene cyclisation catalysis: Coordination to substrates, to ancillary ligands and in intermediates. South African Journal of Science, 2011, 107, .	0.7	39
28	New self-assembled one-dimensional nickel coordination polymers and hydrogen-bonded networks. Dalton Transactions, 2003, , 631-637.	3.3	36
29	Biphasic hydroformylation in new molten salts "analogies and differences to organic solvents. Dalton Transactions RSC, 2002, , 1132.	2.3	35
30	The synthesis of gold(I) carbene complexes using 4-methylthiazolyl lithium. Journal of the Chemical Society Chemical Communications, 1990, , 1722.	2.0	34
31	Polymerization of higher linear α -olefins with (CH ₃) ₂ Si(2-methylbenz[e]indenyl)ZrCl ₂ . Journal of Polymer Science Part A, 2000, 38, 2333-2339.	2.3	34
32	The Nature of the Metal-Carbene Bond in Normal and Abnormal Pyridylidene, Quinolyidene and Isoquinolyidene Complexes. European Journal of Inorganic Chemistry, 2009, 2009, 1892-1904.	2.0	34
33	Fischer-type tungsten acyl (carbenate), carbene and carbyne complexes bearing C5-attached thiazolyl substituents: interaction with gold(I) fragments. New Journal of Chemistry, 2010, 34, 458.	2.8	34
34	Preparing Gold(I) for Interactions with Proton Donors: The Elusive [Au]...HO Hydrogen Bond. Angewandte Chemie - International Edition, 2016, 55, 1694-1698.	13.8	33
35	Tetrazolyl and tetrazolyidene complexes of gold: a synthetic and structural study. New Journal of Chemistry, 2009, 33, 2208.	2.8	31
36	Monomeric Linear Diaminocarbene Complexes of Gold(I) Show Merit in Enantioselective Catalysis. Angewandte Chemie - International Edition, 2012, 51, 5042-5044.	13.8	29

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37	Insertion of phenylethyne-thiolate or -selenolate into metal σ -carbene bonds: synthons for co-ordinated thioacyl or selenoacyl anions and for anionic thiocarbene or selenocarbene complex. <i>Journal of the Chemical Society Dalton Transactions</i> , 1989, , 1565-1577.	1.1	28
38	Novel N-heterocyclic ylidenamine gold(i) complexes: synthesis, characterisation and screening for antitumour and antimalarial activity. <i>Dalton Transactions</i> , 2011, 40, 1471.	3.3	28
39	Homopolymerization of Higher 1-Olefins with Metallocene/MAO Catalysts. <i>Macromolecular Materials and Engineering</i> , 2001, 286, 480-487.	3.6	25
40	Preparation and structural characterization of η^2 - and η^3 -heteroallyl complexes of cyclopentadienyliron(II), (η^5 -C ₅ H ₅)Fe(L)S ₂ CR (L = Ph ₂ PCH ₂ PPh ₂ ; R = Me, Ph). <i>Organometallics</i> , 1990, 9, 1071-1078.	2.3	24
41	Synthesis and characterisation of N-coordinated pentafluorophenyl gold(i) thiazole-derived complexes and an unusual self-assembly to form a tetrameric gold(i) complex Electronic supplementary information (ESI) available: Characterisation data for 1. See http://www.rsc.org/suppdata/dt/b3/b303625a/ . <i>Dalton Transactions</i> , 2003, , 2859.	3.3	24
42	Synthesis, X-ray characterization and single molecule magnetic behaviour of [Mn ₁₂ O ₁₂ (O ₂ CCH ₂ X) ₁₆ (H ₂ O) ₄] \cdot mCH ₂ Cl ₂ \cdot nH ₂ O (1: X = Cl, m = 2, n = 6; 2: X = Br, m = 4, n = 0). <i>Dalton Transactions RSC</i> , 2001, , 3352.	2.3	22
43	Anionic Fischer-type carbene complexes as bidentate (N,O) ligands Electronic supplementary information (ESI) available: molecular structures of 4b, 5, 7 and 8. See http://www.rsc.org/suppdata/dt/b3/b316998g/ . <i>Dalton Transactions</i> , 2004, , 1173.	3.3	22
44	Analysis of polyolefin blends by CRYSTAF. <i>Macromolecular Symposia</i> , 2002, 178, 81-92.	0.7	20
45	Copolymerization behavior of Cp ₂ ZrCl ₂ /MAO and [(CO) ₅ WC(Me)OZrCp ₂ Cl]/MAO: a comparative study on ethylene/1-pentene copolymers. <i>Polymer</i> , 2006, 47, 56-66.	3.8	20
46	Amides of gold(I) diphosphines prepared from N-heterocyclic sources and their in vitro and in vivo screening for anticancer activity. <i>Journal of Inorganic Biochemistry</i> , 2012, 111, 80-90.	3.5	20
47	Gold acyls and imidoyls prepared from anionic Fischer-type carbene complexes. <i>Inorganica Chimica Acta</i> , 2005, 358, 4217-4228.	2.4	19
48	Synthesis and structural characterization of heterocyclic thiocarbene, selenocarbene, thione, and selone complexes of tungsten pentacarbonyl or chromium pentacarbonyl. <i>Organometallics</i> , 1988, 7, 1853-1858.	2.3	18
49	Synthesis and Characterization of Thienyl Oligomeric, Carbene, and Nitrogen-Donor Complexes of Gold(I). <i>Organometallics</i> , 1997, 16, 3324-3332.	2.3	18
50	Ethylene/1-pentene copolymers synthesized using the metaloxycarbene complex catalyst system [(CO) ₅ W=C(Me)OZr(Cp) ₂ Cl]/MAO. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5121-5133.	2.3	18
51	Normal and abnormal carbene complexes derived from thiazole: Preparation and a preliminary investigation of their relative catalytic performance. <i>Polyhedron</i> , 2011, 30, 2776-2782.	2.2	18
52	Synthesis and X-ray structure of cis-[(ethoxy)-1,3-dithianylidene-(hydroxy)methylcarbene-C,S]tetracarbonylchromium(0). The formation of a complex with carbonyl insertion. <i>Journal of the Chemical Society Chemical Communications</i> , 1976, , 732.	2.0	17
53	Preparation and characterization of carbene complexes of iron from azoyl and thienyl precursors. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 4431.	1.1	17
54	Mono- and Binuclear Gold(I) Amido Compounds of Purine Derivatives. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2004, 59, 1605-1618.	0.7	17

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55	Synthesis and properties of poly-1-olefins. <i>Macromolecular Symposia</i> , 2001, 165, 11-18.	0.7	16
56	Intermolecular aurophilic interactions facilitate assembly of a complex rotaxane in solution. <i>Chemical Communications</i> , 2009, , 6598.	4.1	15
57	Sulphur-containing metal complexes. Part 14. Reactions of carbene anions with carbon disulphide or carbon diselenide. <i>Journal of the Chemical Society Dalton Transactions</i> , 1985, , 1963.	1.1	14
58	Auolysis of \hat{I}^{\pm} -C-deprotonated group 6 aminocarbene and thiocarbene complexes with Ph ₃ PAu ⁺ . <i>Dalton Transactions</i> , 2006, , 4580-4589.	3.3	14
59	Synthesis of the six-membered tetracarbonyl carbene-thioether chelate and the seven-membered imidate-thioether chelates (R \hat{I} \rightarrow H or Me), by CO or NR insertion into metal-carbene bonds. Crystal structures of and. <i>Journal of Organometallic Chemistry</i> , 1987, 319, 361-377.	1.8	13
60	Preparation of tris(azolyl)phosphine gold (<sc>i</sc>) complexes: digold (<sc>i</sc>) coordination and variation in solid state intermolecular interactions. <i>New Journal of Chemistry</i> , 2008, 32, 138-150.	2.8	13
61	Neutral mononuclear and dinuclear complexes of gold(I) featuring azole ligands: Synthesis, structure and cytotoxicity. <i>Polyhedron</i> , 2012, 34, 188-197.	2.2	13
62	Preparing Gold(I) for Interactions with Proton Donors: The Elusive [Au] \hat{a} ... \hat{a} ... \hat{a} ...HO Hydrogen Bond. <i>Angewandte Chemie</i> , 2016, 128, 1726-1730.	2.0	12
63	Synthesis and crystallographic characterization of thiazole-2-dithiocarboxylate methyl ester complexes of chromium, tungsten and iron carbonyls \hat{e} \hat{S} \hat{e} . <i>Dalton Transactions RSC</i> , 2000, , 3016-3021.	2.3	10
64	Sulphur-containing metal complexes. Part 4. Preparation of fac-tri-substituted carbonyl complexes of chromium(0) and tungsten(0) containing a phosphine, phosphite, or isocyanide ligand in addition to a chelate ring with carbene carbon and sulphur donor atoms. <i>Journal of the Chemical Society Dalton Transactions</i> , 1979, , 1701.	1.1	9
65	Reaction and subsequent transformation of anionic acetylides \hat{e} carbene complexes using the Ph ₃ PAu ⁺ fragment. <i>Dalton Transactions</i> , 2007, , 5684.	3.3	9
66	Aerial oxidation of tetrahydrofuran to 2-hydroxotetrahydrofuran in the presence of a trimeric CuI complex [Cu ₃ L ₃] (HL = tBuNHC(S)NHP(S)(OiPr) ₂) and trapping of the unstable product at recrystallization. <i>New Journal of Chemistry</i> , 2010, 34, 2835.	2.8	9
67	Poly(pent-1-ene) Synthesized with the Syndiospecific Catalyst i-Pr(Cp)(9-Flu)ZrCl ₂ /MAO. <i>Macromolecular Materials and Engineering</i> , 2002, 287, 559-564.	3.6	8
68	Preparing \hat{I}^{\pm} , \hat{I}^2 -unsaturated Fischer-type carbene complexes via an unforeseen route. <i>Dalton Transactions</i> , 2007, , 424-429.	3.3	8
69	Solvent and counter ion effects in bis(imidazole) dinuclear heterometallacyclic complexes of gold(I): Some considerations of porosity. <i>Journal of Molecular Structure</i> , 2010, 977, 214-219.	3.6	8
70	Ligating properties of anionic Fischer-type carbene complexes, [(CO) ₅ Mi \hat{e} (X)Y] \hat{a} \hat{r} . <i>Dalton Transactions</i> , 2009, , 8145.	3.3	7
71	Interaction between Cu and Ag free ions and central metals in complexes with XH _n units (X \hat{e} \hat{e} B, Si, N, O,) Tj ETOq1 1 0.784314 ngE 18.8 7	1.1	7
72	Mono- and bi-dentate Group 6-coordinated and titanium-containing isocyanide ligands prepared from benzoxazole. <i>Dalton Transactions RSC</i> , 2002, , 2386.	2.3	6

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73	New reactions and new products derived from $\hat{\pm}$ -deprotonated Fischer-type carbene complexes. <i>Inorganica Chimica Acta</i> , 2005, 358, 1581-1594.	2.4	6
74	Crystal and Molecular Structures of Tris(1-Methylimidazol-2-yl)Phosphine, Tris(4-Methylthiazol-2-yl)Phosphine and its Sulfide. <i>Journal of Chemical Crystallography</i> , 2009, 39, 478-483.	1.1	6
75	Gold Acyl Complex Formation and Decarbonylation during Indene Synthesis from Catalytically Active Vinylidene Complexes. <i>ChemCatChem</i> , 2015, 7, 1261-1262.	3.7	6
76	Remote and $\hat{\pm}$ -Thio Carbene Complexes Derived from an Oxazolinylsubstituted Thiophene. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 509-518.	0.7	5
77	Titanoxycarbene complexes of Ti(IV) with O- and N-donor ligands. <i>New Journal of Chemistry</i> , 2008, 32, 540.	2.8	4
78	Imine-coordinated 2-Aminoazole Complexes of Au(I): Complicating Reactions and Verification of Products by Crystal Structure Determination. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2014, 69, 1073-1087.	0.7	4
79	Computational investigation of Au-H hydrogen bonds involving neutral Au I N-heterocyclic carbene complexes and amphiprotic binary hydrides. <i>Journal of Molecular Modeling</i> , 2019, 25, 135.	1.8	4
80	Synthesis and characterisation of propene / higher 1-olefin copolymers with the catalyst system (CH ₃) ₂ Si(2-methylbenz[e]indenyl)ZrCl ₂ /MAO. <i>E-Polymers</i> , 2003, 3, .	3.0	3
81	Gold(I) Hydrides as Proton Acceptors in Dihydrogen Bond Formation. <i>ChemPhysChem</i> , 2017, 18, 2288-2294.	2.1	3
82	Excimer- und Exciplex-Bildung in durch aurophile Wechselwirkungen präkonditionierten Gold(I)-Komplexen. <i>Angewandte Chemie</i> , 2020, 132, 14856-14881.	2.0	3
83	Coordination of Ligands That Contain Thiocarbonyl, Carbonyl, or Thiolate Functionalities to Complex Fragments of Palladium in Various Oxidation States. <i>Helvetica Chimica Acta</i> , 2012, 95, 2528-2543.	1.6	2
84	Pentacarbonyl-2 ⁵ C-chlorido-1 ¹ Cl-bis[1($\hat{\pm}$ 5)-cyclopentadienyl]($\hat{\pm}$ 4-1-oxidoethylene-1:2 ²⁰ :C)chromium(0)zirconium(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, m125-m125.	0.2	2
85	Pentacarbonyl[methyl(n-propylsulfanyl)carbene]chromium(0). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m1625-m1626.	0.2	1
86	Dinuclear Gold Complexes of Two Simple but Underutilized Dicarbanionic Ligand Types. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009, 64, 1449-1457.	0.7	1
87	18-Membered Heterometallacyclic Gold(I) Compounds: Structural Influences of Co-crystallized Solvent. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 1115-1122.	0.7	1
88	Acid and base strength variations: rationalization for cyclic amine bases and acidic aqua cations. <i>Dalton Transactions</i> , 2021, 50, 17864-17878.	3.3	1
89	[(3-Methylphenyl)(triphenylphosphonio)methanide- ¹³ C]triphenylphosphorane}(pentafluorophenyl- ¹³ C)gold(I) diethyl ether solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, m1373-m1373.	0.2	0