

# Helgard G Raubenheimer

## List of Publications by Year in descending order

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89  
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3,803  
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136950

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docs citations

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times ranked

3490  
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#	ARTICLE	IF	CITATIONS
1	Acid and base strength variations: rationalization for cyclic amine bases and acidic aqua cations. Dalton Transactions, 2021, 50, 17864-17878.	3.3	1
2	Interaction between Cu and Ag free ions and central metals in complexes with XHn units (X = B, Si, N, O, Tj ETQg 0 0 0 rgBT /Overlo	18.8	7
3	Excimer- und Exciplex-Bildung in durch aurophile Wechselwirkungen präkonditionierten Gold(I)-Komplexen. Angewandte Chemie, 2020, 132, 14856-14881.	2.0	3
4	Excimer and Exciplex Formation in Gold(I) Complexes Preconditioned by Aurophilic Interactions. Angewandte Chemie - International Edition, 2020, 59, 14748-14771.	13.8	60
5	Computational investigation of Au-H hydrogen bonds involving neutral Au(I)-N-heterocyclic carbene complexes and amphiprotic binary hydrides. Journal of Molecular Modeling, 2019, 25, 135.	1.8	4
6	Gold(I) Hydrides as Proton Acceptors in Dihydrogen Bond Formation. ChemPhysChem, 2017, 18, 2288-2294.	2.1	3
7	Preparing Gold(I) for Interactions with Proton Donors: The Elusive [Au]...HO Hydrogen Bond. Angewandte Chemie, 2016, 128, 1726-1730.	2.0	12
8	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
9	Gold Acyl Complex Formation and Decarbonylation during Indene Synthesis from Catalytically Active Vinylidene Complexes. ChemCatChem, 2015, 7, 1261-1262.	3.7	6
10	Imine-coordinated 2-Aminoazole Complexes of Au(I): Complicating Reactions and Verification of Products by Crystal Structure Determination. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2014, 69, 1073-1087.	0.7	4
11	The gold-hydrogen bond, Au-H, and the hydrogen bond to gold, Au-H-X. Chemical Society Reviews, 2014, 43, 345-380.	38.1	191
12	The Late Start and Amazing Upswing in Gold Chemistry. Journal of Chemical Education, 2014, 91, 2024-2036.	2.3	57
13	Remote and $\pi$ -Thio Carbene Complexes Derived from an Oxazoliny-substituted Thiophene. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2012, 67, 509-518.	0.7	5
14	18-Membered Heterometallacyclic Gold(I) Compounds: Structural Influences of Co-crystallized Solvent. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2012, 67, 1115-1122.	0.7	1
15	Coordination of Ligands That Contain Thiocarbonyl, Carbonyl, or Thiolate Functionalities to Complex Fragments of Palladium in Various Oxidation States. Helvetica Chimica Acta, 2012, 95, 2528-2543.	1.6	2
16	Monomeric Linear Diaminocarbene Complexes of Gold(I) Show Merit in Enantioselective Catalysis. Angewandte Chemie - International Edition, 2012, 51, 5042-5044.	13.8	29
17	Neutral mononuclear and dinuclear complexes of gold(I) featuring azole ligands: Synthesis, structure and cytotoxicity. Polyhedron, 2012, 34, 188-197.	2.2	13
18	Amides of gold(I) diphosphines prepared from N-heterocyclic sources and their in vitro and in vivo screening for anticancer activity. Journal of Inorganic Biochemistry, 2012, 111, 80-90.	3.5	20

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19	Novel N-heterocyclic ylidenamine gold(I) complexes: synthesis, characterisation and screening for antitumour and antimalarial activity. Dalton Transactions, 2011, 40, 1471.	3.3	28
20	Normal and abnormal carbene complexes derived from thiazole: Preparation and a preliminary investigation of their relative catalytic performance. Polyhedron, 2011, 30, 2776-2782.	2.2	18
21	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
22	Solvent and counter ion effects in bis(imidazole) dinuclear heterometallacyclic complexes of gold(I): Some considerations of porosity. Journal of Molecular Structure, 2010, 977, 214-219.	3.6	8
23	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). Organometallics, 2010, 29, 5821-5833.	2.3	69
24	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
25	Aerial oxidation of tetrahydrofuran to 2-hydroxotetrahydrofuran in the presence of a trimeric CuI complex [Cu <sub>3</sub> L <sub>3</sub> ] (HL = tBuNHC(S)NHP(S)(OiPr) <sub>2</sub> ) and trapping of the unstable product at recrystallization. New Journal of Chemistry, 2010, 34, 2835.	2.8	9
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	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
28	Crystal and Molecular Structures of Tris(1-Methylimidazol-2-yl)Phosphine, Tris(4-Methylthiazol-2-yl)Phosphine and its Sulfide. Journal of Chemical Crystallography, 2009, 39, 478-483.	1.1	6
29	Beyond Conventional N-Heterocyclic Carbenes: Abnormal, Remote, and Other Classes of NHC Ligands with Reduced Heteroatom Stabilization. Chemical Reviews, 2009, 109, 3445-3478.	47.7	998
30	Ligating properties of anionic Fischer-type carbene complexes, [(CO) <sub>5</sub> MiC(X)Y] <sup>-</sup> . Dalton Transactions, 2009, , 8145.	3.3	7
31	Tetrazolyl and tetrazolylidene complexes of gold: a synthetic and structural study. New Journal of Chemistry, 2009, 33, 2208.	2.8	31
32	Intermolecular aurophilic interactions facilitate assembly of a complex rotaxane in solution. Chemical Communications, 2009, , 6598.	4.1	15
33	Dinuclear Gold Complexes of Two Simple but Underutilized Dicarbanionic Ligand Types. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 1449-1457.	0.7	1
34	Pentacarbonyl-2 <sup>15</sup> C-chlorido-1 <sup>35</sup> Cl-bis[1(1 <sup>5</sup> )-cyclopentadienyl](1/4-1-oxidoethylene-1:2 <sup>18</sup> O:C)chromium(0)zirconium(IV). Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m125-m125.	0.2	2
35	[(3-Methylphenyl)(triphenylphosphonio)methanide- <sup>13</sup> C]triphenylphosphorane}(pentafluorophenyl- <sup>13</sup> C)gold(I) diethyl ether solvate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m1373-m1373.	0.2	0
36	One-N, six-membered heterocyclic carbene complexes and the remote heteroatom concept. Dalton Transactions, 2008, , 1265-1272.	3.3	85

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37	Carbene complexes of gold: preparation, medical application and bonding. <i>Chemical Society Reviews</i> , 2008, 37, 1998.	38.1	190
38	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
39	Preparation of tris(azolyl)phosphine gold( $\langle scp \rangle i \langle /scp \rangle$ ) complexes: digold( $\langle scp \rangle i \langle /scp \rangle$ ) coordination and variation in solid state intermolecular interactions. <i>New Journal of Chemistry</i> , 2008, 32, 138-150.	2.8	13
40	Titanoxycarbene complexes of Ti(iv) with O- and N-donor ligands. <i>New Journal of Chemistry</i> , 2008, 32, 540.	2.8	4
41	Reaction and subsequent transformation of anionic acetylide $\hat{c}$ carbene complexes using the Ph <sub>3</sub> PAu <sup>+</sup> fragment. <i>Dalton Transactions</i> , 2007, , 5684.	3.3	9
42	Preparing $\hat{1}\pm, \hat{1}^2$ -unsaturated Fischer-type carbene complexes via an unforeseen route. <i>Dalton Transactions</i> , 2007, , 424-429.	3.3	8
43	Structural Studies of Gold(I, II, and III) Compounds with Pentafluorophenyl and Tetrahydrothiophene Ligands. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2497-2500.	13.8	45
44	Pyridin- and quinolinylidene nickel carbene complexes as effective catalysts for the Grignard cross-coupling reaction. <i>Journal of Molecular Catalysis A</i> , 2007, 265, 50-58.	4.8	47
45	A first structural and theoretical comparison of pyridinylidene-type rNHC (remote N-heterocyclic) Tj ETQq1 1 0.784314 rgBT /Overlock 1226-1233.	3.3	78
46	Auolysis of $\hat{1}\pm$ -C-deprotonated group 6 aminocarbene and thiocarbene complexes with Ph <sub>3</sub> PAu <sup>+</sup> . <i>Dalton Transactions</i> , 2006, , 4580-4589.	3.3	14
47	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
48	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
49	Pentacarbonyl[methyl(n-propylsulfanyl)carbene]chromium(0). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m1625-m1626.	0.2	1
50	Copolymerization behavior of Cp <sub>2</sub> ZrCl <sub>2</sub> /MAO and [(CO) <sub>5</sub> WC(Me)OZrCp <sub>2</sub> Cl]/MAO: a comparative study on ethylene/1-pentene copolymers. <i>Polymer</i> , 2006, 47, 56-66.	3.8	20
51	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
52	New reactions and new products derived from $\hat{1}\pm$ -deprotonated Fischer-type carbene complexes. <i>Inorganica Chimica Acta</i> , 2005, 358, 1581-1594.	2.4	6
53	Gold acyls and imidoys prepared from anionic Fischer-type carbene complexes. <i>Inorganica Chimica Acta</i> , 2005, 358, 4217-4228.	2.4	19
54	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

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55	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
56	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
57	Ethylene/1-pentene copolymers synthesized using the metallocene complex catalyst system [(CO) <sub>5</sub> W=C(Me)OZr(Cp) <sub>2</sub> Cl]/MAO. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5121-5133.	2.3	18
58	Anionic Fischer-type carbene complexes as bidentate (N,O) ligands Electronic supplementary information (ESI) available: molecular structures of 4b, 5, 7 and 8. See <a href="http://www.rsc.org/suppdata/dt/b3/b316998g/">http://www.rsc.org/suppdata/dt/b3/b316998g/</a> . <i>Dalton Transactions</i> , 2004, , 1173.	3.3	22
59	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: <sup>1</sup> H and <sup>13</sup> C-{ <sup>1</sup> H} NMR data of ligand precursors 1a and 2. See <a href="http://www.rsc.org/suppdata/dt/b3/b314217p/">http://www.rsc.org/suppdata/dt/b3/b314217p/</a> . <i>Dalton Transactions</i> , 2004, , 413.	3.3	47
60	New self-assembled one-dimensional nickel coordination polymers and hydrogen-bonded networks. <i>Dalton Transactions</i> , 2003, , 631-637.	3.3	36
61	Synthesis and characterisation of organometallic imidazolium compounds that include a new organometallic ionic liquid. <i>Dalton Transactions</i> , 2003, , 4275-4281.	3.3	43
62	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 <a href="http://www.rsc.org/suppdata/dt/b3/b303625a/">http://www.rsc.org/suppdata/dt/b3/b303625a/</a> . <i>Dalton Transactions</i> , 2003, , 2859.	3.3	24
63	Synthesis and characterisation of propene / higher 1-olefin copolymers with the catalyst system (CH <sub>3</sub> ) <sub>2</sub> Si(2-methylbenz[e]indenyl) <sub>2</sub> ZrCl <sub>2</sub> /MAO. <i>E-Polymers</i> , 2003, 3, .	3.0	3
64	Analysis of polyolefin blends by CRYSTAF. <i>Macromolecular Symposia</i> , 2002, 178, 81-92.	0.7	20
65	Electrophilic Addition of Ph <sub>3</sub> PAu <sup>+</sup> to Anionic Alkoxy Fischer-Type Carbene Complexes: A Novel Approach to Metal-Stabilized Bimetallic Vinyl Ether Complexes. <i>Organometallics</i> , 2002, 21, 3173-3181.	2.3	46
66	Biphasic hydroformylation in new molten salts "analogies and differences to organic solvents. <i>Dalton Transactions RSC</i> , 2002, , 1132.	2.3	35
67	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
68	Poly(pent-1-ene) Synthesized with the Syndiospecific Catalyst i-Pr(Cp)(9-Flu)ZrCl <sub>2</sub> /MAO. <i>Macromolecular Materials and Engineering</i> , 2002, 287, 559-564.	3.6	8
69	Synthesis, X-ray characterization and single molecule magnetic behaviour of [Mn <sub>12</sub> O <sub>12</sub> (O <sub>2</sub> CCH <sub>2</sub> X) <sub>16</sub> (H <sub>2</sub> O) <sub>4</sub> ] <sup>n+</sup> mCH <sub>2</sub> Cl <sub>2</sub> ·nH <sub>2</sub> 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
70	Synthesis and properties of poly-1-olefins. <i>Macromolecular Symposia</i> , 2001, 165, 11-18.	0.7	16
71	Carbene complexes derived from lithiated heterocycles, mainly azoles, by transmetallation. <i>Journal of Organometallic Chemistry</i> , 2001, 617-618, 170-181.	1.8	74
72	Homopolymerization of Higher 1-Olefins with Metallocene/MAO Catalysts. <i>Macromolecular Materials and Engineering</i> , 2001, 286, 480-487.	3.6	25

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73	Investigation of the Melting and Crystallization Behavior of Random Propene/ $\alpha$ -Olefin Copolymers by DSC and CRYSTAF. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1281-1288.	2.2	52
74	Polymerization of higher linear $\alpha$ -olefins with (CH <sub>3</sub> ) <sub>2</sub> Si(2-methylbenz[e]indenyl) <sub>2</sub> ZrCl <sub>2</sub> . <i>Journal of Polymer Science Part A</i> , 2000, 38, 2333-2339.	2.3	34
75	The copolymerization of propylene with higher, linear $\alpha$ -olefins. <i>Journal of Polymer Science Part A</i> , 2000, 38, 4110-4118.	2.3	46
76	Synthesis and crystallographic characterization of thiazole-2-dithiocarboxylate methyl ester complexes of chromium, tungsten and iron carbonyls. <i>Dalton Transactions RSC</i> , 2000, , 3016-3021.	2.3	10
77	Synthesis and Characterization of Thienyl Oligomeric, Carbene, and Nitrogen-Donor Complexes of Gold(I). <i>Organometallics</i> , 1997, 16, 3324-3332.	2.3	18
78	Preparation and characterization of carbene complexes of iron from azolyl and thienyl precursors. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 4431.	1.1	17
79	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
80	Formation and Reactions of Organosulfur and Organoselenium Organometallic Compounds. <i>Advances in Organometallic Chemistry</i> , 1991, , 1-119.	1.0	61
81	Preparation and structural characterization of $\eta^2$ - and $\eta^3$ -heteroallyl complexes of cyclopentadienyliron(II), ( $\eta^5$ -C <sub>5</sub> H <sub>5</sub> )Fe(L)S <sub>2</sub> CR (L = Ph <sub>2</sub> PCH <sub>2</sub> PPh <sub>2</sub> ; R = Me, Ph). <i>Organometallics</i> , 1990, 9, 1071-1078.	2.3	24
82	The synthesis of gold(I) carbene complexes using 4-methylthiazolyl lithium. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 1722.	2.0	34
83	Insertion of phenylethyne-thiolate or -selenolate into metal-carbene bonds: synthons for co-ordinated thioacyl or selenoacyl anions and for anionic thiocarbene or selenocarbene complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1989, , 1565-1577.	1.1	28
84	Synthesis and structural characterization of heterocyclic thiocarbene, selenocarbene, thione, and selenone complexes of tungsten pentacarbonyl or chromium pentacarbonyl. <i>Organometallics</i> , 1988, 7, 1853-1858.	2.3	18
85	Synthesis of the six-membered tetracarbonyl carbene-thioether chelate and the seven-membered imidate-thioether chelates (R = H or Me), by CO or NR insertion into metal-carbene bonds. <i>Crystal structures of and. Journal of Organometallic Chemistry</i> , 1987, 319, 361-377.	1.8	13
86	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
87	Sulfur-containing metal complexes. 12. Reactions of $\alpha$ -thio carbanions with carbene complexes of the type [M(CO) <sub>5</sub> [O(alkyl)Ar]] and with the carbene [( $\eta^5$ -MeC <sub>5</sub> H <sub>4</sub> )Mn(CO) <sub>2</sub> (CPh)][BCl <sub>4</sub> ]. <i>Organometallics</i> , 1985, 4, 275-284.	2.3	39
88	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
89	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