

Dietmar Stalke

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745
papers

27,279
citations

72
h-index

123
g-index

884
ext. papers

29,981
ext. citations

5.8
avg, IF

7.17
L-index

#	Paper	IF	Citations
745	Comparison of silver and molybdenum microfocus X-ray sources for single-crystal structure determination. <i>Journal of Applied Crystallography</i> , 2015 , 48, 3-10	3.8	1834
744	Crystal handling at low temperatures. <i>Journal of Applied Crystallography</i> , 1993 , 26, 615-619	3.8	963
743	Cryo crystal structure determination and application to intermediates. <i>Chemical Society Reviews</i> , 1998 , 27, 171	58.5	403
742	Lewis base stabilized dichlorosilylene. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5683-6	16.4	398
741	Light-triggered guest uptake and release by a photochromic coordination cage. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1319-23	16.4	377
740	Interface-engineered templates for molecular spin memory devices. <i>Nature</i> , 2013 , 493, 509-13	50.4	334
739	Preparation and characterization of regioisomerically pure 1,7-disubstituted perylene bisimide dyes. <i>Journal of Organic Chemistry</i> , 2004 , 69, 7933-9	4.2	291
738	Lewis Base Stabilized Dichlorosilylene. <i>Angewandte Chemie</i> , 2009 , 121, 5793-5796	3.6	227
737	A stable singlet biradicaloid siladibene: (L:)2Si. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2963-7	16.4	218
736	High yield access to silylene RSiCl (R = PhC(NtBu)2) and its reactivity toward alkyne: synthesis of stable disilacyclobutene. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1123-6	16.4	211
735	Synthesis and crystal structures of the ligand-stabilized silver chalcogenide clusters [Ag154Se77(dppxy)18], [Ag320(StBu)60S130(dppp)12], [Ag352S128(StC5H11)96], and [Ag490S188(StC5H11)114]. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1326-31	16.4	211
734	Ruthenium(II)-catalyzed C-H activation/alkyne annulation by weak coordination with O2 as the sole oxidant. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5513-7	16.4	205
733	Allosteric binding of halide anions by a new dimeric interpenetrated coordination cage. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2191-4	16.4	198
732	Structures of Classical Reagents in Chemical Synthesis: (nBuLi)6, (tBuLi)4, and the Metastable (tBuLi)2(Et2O)2. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 580-582		198
731	A comparison of a microfocus X-ray source and a conventional sealed tube for crystal structure determination. <i>Journal of Applied Crystallography</i> , 2009 , 42, 885-891	3.8	164
730	A Simple Synthesis of [(Cp*Al)4] and Its Conversion to the Heterocubanes [(Cp*AlSe)4] and [(Cp*AlTe)4] (Cp* = η -C5(CH3)5). <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1729-1731		159
729	Conversion of a singlet silylene to a stable biradical. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1801-5	16.4	155

728	Template control over dimerization and guest selectivity of interpenetrated coordination cages. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8476-9	16.4	148
727	Ruthenium(II)-Catalyzed meta C-H Mono- and Difluoromethylations by Phosphine/Carboxylate Cooperation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2045-2049	16.4	141
726	Single crystals of the disubstituted anthracene 9,10-(Ph ₂ P=S) ₂ C ₁₄ H ₈ selectively and reversibly detect toluene by solid-state fluorescence emission. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 783-7	16.4	140
725	How delocalized is N,N,N',N'-tetraphenylphenylenediamine radical cation? An experimental and theoretical study on the electronic and molecular structure. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7834-45	16.4	137
724	Triggered exchange of anionic for neutral guests inside a cationic coordination cage. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1060-3	16.4	136
723	Low-cost conversion of a coaxial nozzle arrangement into a stationary low-temperature attachment. <i>Journal of Applied Crystallography</i> , 1996 , 29, 465-468	3.8	136
722	Acyclic germylones: congeners of allenes with a central germanium atom. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12422-8	16.4	134
721	Accurate molecular weight determination of small molecules DOSY-NMR by using external calibration curves with normalized diffusion coefficients. <i>Chemical Science</i> , 2015 , 6, 3354-3364	9.4	132
720	A germanium(II) hydride as an effective reagent for hydrogermylation reactions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1288-93	16.4	127
719	Mixed-Valence, Tetranuclear Iron Chelate Complexes as Endoreceptors: Charge Compensation Through Inclusion of Cations. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1621-1623		127
718	Electronic structure and slow magnetic relaxation of low-coordinate cyclic alkyl(amino) carbene stabilized iron(I) complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11964-71	16.4	122
717	Lichtgesteuerte Aufnahme und Freisetzung von Gastmolekülen durch einen photochromen Koordinationskäfig. <i>Angewandte Chemie</i> , 2013 , 125, 1358-1362	3.6	122
716	Si-E (E = N, O, F) bonding in a hexacoordinated silicon complex: new facts from experimental and theoretical charge density studies. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5563-8	16.4	114
715	Ein stabiles biradikaloides Singulett-Siladicarben: (L) ₂ Si. <i>Angewandte Chemie</i> , 2013 , 125, 3036-3040	3.6	112
714	Meaningful structural descriptors from charge density. <i>Chemistry - A European Journal</i> , 2011 , 17, 9264-78	4.8	110
713	Cleavage of a N-H bond of ammonia at room temperature by a germylene. <i>Inorganic Chemistry</i> , 2009 , 48, 798-800	5.1	109
712	Strukturen der klassischen Synthesereagentien nBuLi) ₆ und (tBuLi) ₄ sowie vom metastabilen tBuLi Et ₂ O) ₂ . <i>Angewandte Chemie</i> , 1993 , 105, 619-621	3.6	105
711	Methylenecyclopropane Annulation by Manganese(I)-Catalyzed Stereoselective C-H/C-C Activation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9415-9419	16.4	104

710	Synthesis and reactivity of a transient, terminal nitrido complex of rhodium. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17719-22	16.4	104
709	S=N versus S+-N-: an experimental and theoretical charge density study. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1781-93	16.4	103
708	Cation-induced structural alterations in the organo alkali metal derivatives of triphenylmethane: a combined x-ray and NMR study of the potassium-cesium salts. <i>Organometallics</i> , 1993 , 12, 1193-1200	3.8	100
707	.eta.3 and .eta.6 Bridging cations in the N,N,N',N'',N''-pentamethyldiethylenetriamine-solvated complexes of benzylpotassium and benzylrubidium: an x-ray, NMR, and MO study. <i>Journal of the American Chemical Society</i> , 1994 , 116, 528-536	16.4	100
706	Structure and crystal packing of 4-aminobenzonitriles and 4-amino-3,5-dimethylbenzonitriles at various temperatures. <i>Acta Crystallographica Section B: Structural Science</i> , 1994 , 50, 363-373		97
705	Asymmetric Iron-Catalyzed C-H Alkylation Enabled by Remote Ligand meta-Substitution. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14197-14201	16.4	95
704	Assembly and stepwise oxidation of interpenetrated coordination cages based on phenothiazine. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10102-6	16.4	94
703	Structural characterization of two modifications of tris(tetrahydrofuran)(tris(trimethylsilyl)silyl)lithium: a compound with a silicon-29-lithium-7 NMR coupling. <i>Inorganic Chemistry</i> , 1993 , 32, 2694-2698	5.1	94
702	Eine einfache Synthese von [(Cp*Al)4] und dessen Umsetzung zu den Heterocubanen [(Cp*AlSe)4] und [(Cp*AlTe)4] (Cp* = C_5Me_5). <i>Angewandte Chemie</i> , 1993 , 105, 1828-1830	3.6	94
701	Lewis base mediated autoionization of GeCl ₂ and SnCl ₂ . <i>Journal of the American Chemical Society</i> , 2012 , 134, 4998-5003	16.4	92
700	Metal coordination to the formal P=N bond of an iminophosphorane and charge-density evidence against hypervalent phosphorus(V). <i>Chemistry - A European Journal</i> , 2004 , 10, 3622-31	4.8	91
699	(Schiff-base)vanadium(V) Complex-Catalyzed Oxidations of Substituted Bis(homoallylic) Alcohols \square Stereoselective Synthesis of Functionalized Tetrahydrofurans. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 2388-2408	3.2	90
698	Experimental charge density study of a silylone. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2766-70	16.4	89
697	Zwitterionic Si-C-Si-P and Si-P-Si-P four-membered rings with two-coordinate phosphorus atoms. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2322-5	16.4	89
696	Testing the concept of hypervalency: charge density analysis of K ₂ SO ₄ . <i>Inorganic Chemistry</i> , 2012 , 51, 8607-16	5.1	87
695	Preparation of RSn(I)-Sn(I)R with two unsymmetrically coordinated Sn(I) atoms and subsequent gentle activation of P ₄ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 17889-94	16.4	87
694	Topologic Equivalents of Coronands, Cryptands and Their Inclusion Complexes: Synthesis, Structure and Properties of {2}-Metallacryptands and {2}-Metallacryptates. <i>Chemistry - A European Journal</i> , 1997 , 3, 2058-2062	4.8	87
693	Striking stability of a substituted silicon(II) bis(trimethylsilyl)amide and the facile Si-Me bond cleavage without a transition metal catalyst. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12311-5	16.4	84

692	The First Neutral Adamantanoid Iron(III)-chelate Complex: Spontaneous Formation, Structure, and Electrochemistry. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1179-1182		84
691	The nature of π -agostic bonding in late-transition-metal alkyl complexes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2845-9	16.4	83
690	The Structure of the Carbene Stabilized Si ₂ H ₂ May Be Equally Well Described with Coordinate Bonds as with Classical Double Bonds. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10429-32	16.4	82
689	Umwandlung eines Singulett-Silylens in ein stabiles Biradikal. <i>Angewandte Chemie</i> , 2013 , 125, 1845-1850	3.6	81
688	Domino reactions of donor-acceptor-substituted cyclopropanes for the synthesis of 3,3'-linked oligopyrroles and pyrrolo[3,2-e]indoles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11153-6	16.4	80
687	Lead structures in lithium organic chemistry	47-120	80
686	On the Accuracy of Theoretically and Experimentally Determined Electron Densities of Polar Bonds. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 9442-9452	2.8	80
685	A stable silicon(II) monohydride. <i>Dalton Transactions</i> , 2011 , 40, 5458-63	4.3	78
684	The Lithocene Anion and Open[Calco]cenes: New Impulses in the Chemistry of Alkali and Alkaline Earth Metallocenes. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 2168-2171		77
683	Structure/reactivity studies on an alpha-lithiated benzylsilane: chemical interpretation of experimental charge density. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11901-11	16.4	76
682	Ambiphilicity of dichlorosilylene in a single molecule. <i>Chemistry - A European Journal</i> , 2010 , 16, 85-8	4.8	75
681	Hydrolysis of Trimesitylgallium and Trimesitylaluminum: Structures Along a Reaction Pathway. <i>Journal of the American Chemical Society</i> , 1996 , 118, 1380-1386	16.4	75
680	The preparation and crystal structures of sodium and potassium pentamethylcyclopentadienyl pyridine solvates. <i>Journal of Organometallic Chemistry</i> , 1991 , 403, 11-19	2.3	75
679	Ytterbium(II) Benzamidinates, a New Class of Highly Reactive Lanthanoid(II) Complexes. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 894-896		75
678	Synthesen und Kristallstrukturen der ligandenstabilisierten Silberchalkogenidcluster [Ag ₁₅₄ Se ₇₇ (dppxy) ₁₈], [Ag ₃₂₀ (StBu) ₆₀ S ₁₃₀ (dppp) ₁₂], [Ag ₃₅₂ S ₁₂₈ (StC ₅ H ₁₁) ₉₆] und [Ag ₄₉₀ S ₁₈₈ (StC ₅ H ₁₁) ₁₁₄]. <i>Angewandte Chemie</i> , 2008 , 120, 1346-1351	3.6	74
677	Poly(pyrazolyl)germanium(II) and -Tin(II) Derivatives-Tuneable Monoanionic Ligands and Dinuclear Cationic Cages. <i>Inorganic Chemistry</i> , 1995 , 34, 4846-4853	5.1	74
676	Self-Assembly of {2}-Metallacryptands and {2}-Metallacryptates	1998, 1998, 1313-1317	73
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- 673 Lewis-base-stabilized dichlorosilylene: a two-electron sigma-donor ligand. *Inorganic Chemistry*, **2010**, 49, 775-7 5.1 72
- 672 Highly soluble acenes as semiconductors for thin film transistors. *Journal of Materials Chemistry*, **2006**, 16, 3708-3714 72
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- 666 Stabilization of low valent silicon fluorides in the coordination sphere of transition metals. *Journal of the American Chemical Society*, **2012**, 134, 2423-8 16.4 70
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- 664 Rhodium-mediated formation of peroxides from dioxygen: isolation of hydroperoxo, silylperoxo, and methylperoxo intermediates. *Angewandte Chemie - International Edition*, **2005**, 44, 6947-51 16.4 70
- 663 An empirical correction for the influence of low-energy contamination. *Journal of Applied Crystallography*, **2015**, 48, 1907-1913 3.8 69
- 662 Anagostic interactions under pressure: attractive or repulsive?. *Angewandte Chemie - International Edition*, **2015**, 54, 2505-9 16.4 69
- 661 Syntheses of group 7 metal carbonyl complexes with a stable N-heterocyclic chlorosilylene. *Inorganic Chemistry*, **2011**, 50, 5039-43 5.1 69
- 660 Donor-acceptor cyclopropanes with Lawesson's and Woollins' reagents: formation of bithiophenes and unprecedented cage-like molecules. *Chemical Communications*, **2013**, 49, 4403-5 5.8 68
- 659 Unexpected coordination of aminoiminophosphoranate ligands with alkali metals. *Inorganic Chemistry*, **1993**, 32, 1977-1981 5.1 68
- 658 A new route to sulfur polyimido anions $\text{S}(\text{NR})_n$ reactivity and coordination behavior. *Coordination Chemistry Reviews*, **1998**, 176, 431-450 23.2 67
- 657 Structures of Two Highly Reactive Intermediates upon LiAlH_4 Reduction in the Solid State and in Solution: $[(\text{Me}_3\text{Si})_2\text{NAlH}_3\text{Li} \cdot 2\text{Et}_2\text{O}]_2$ and $[(\text{Me}_3\text{Si})_2\text{N}]_2\text{AlH}_2\text{Li} \cdot 2\text{Et}_2\text{O}$. *Angewandte Chemie International Edition in English*, **1992**, 31, 854-855 67

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- 652 Triimidisulfonates as Acute Bite-Angle Chelates: Slow Relaxation of the Magnetization in Zero Field and Hysteresis Loop of a Co(II) Complex. *Chemistry - A European Journal*, **2015**, 21, 10109-15 4.8 65
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- 649 Donor-substituted nitrocyclopropanes: immediate ring-enlargement to cyclic nitronates. *Organic Letters*, **2013**, 15, 6098-101 6.2 64
- 648 Easy access to silicon(0) and silicon(II) compounds. *Inorganic Chemistry*, **2013**, 52, 4736-43 5.1 64
- 647 A Novel Approach for the Stabilization and Structural Characterization of Group 13 Organometallic Hydroxides: The Way to Well Defined Crystalline Methylalumoxanes. *Journal of the American Chemical Society*, **1997**, 119, 7505-7513 16.4 64
- 646 Octanuclear Bis(triple-helical) Metal(II) Complexes **1998**, 1998, 559-563 64
- 645 Stable Silanetriols as Building Blocks for the Synthesis of Titanasilasesquioxanes Model Compounds for Titanium-Doped Zeolites. *Angewandte Chemie International Edition in English*, **1994**, 33, 1352-1354 64
- 644 A P₄ chain and cage from silylene-activated white phosphorus. *Angewandte Chemie - International Edition*, **2011**, 50, 11786-9 16.4 63
- 643 Facile Access to the Functionalized N-Donor Stabilized Silylenes PhC(NtBu)₂SiX (X = PPh₂, NPh₂, NCy₂, NiPr₂, NMe₂, N(SiMe₃)₂, OtBu). *Organometallics*, **2012**, 31, 4588-4592 3.8 62
- 642 Coordination of the Bis(pyridyl)methyl Substituent to Group 1 and 13 Metals. *Organometallics*, **1994**, 13, 4398-4405 3.8 62
- 641 Carbenoid or Lithium Complex of a Carbanion? Synthesis and Structure of (Me₃Si)₂C=P(aryl)?C(Cl)Li(thf)₃ and LiCl Elimination To Give the Phosphirene. *Angewandte Chemie International Edition in English*, **1995**, 34, 1849-1852 62
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- 638 Formal anti-carbopalladation reactions of non-activated alkynes: requirements, mechanistic insights, and applications. *Angewandte Chemie - International Edition*, **2015**, 54, 4119-23 16.4 59
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- 636 Substituent-Controlled Reactions of Iminophosphoranes with Methyllithium. *Angewandte Chemie International Edition in English*, **1995**, 34, 1752-1755 59
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- 633 Intermolecular twofold carbopalladation/cyclization sequence to access chromans and isochromans from carbohydrates. *Chemistry - A European Journal*, **2011**, 17, 9888-92 4.8 58
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- 628 Gemischtvalente, tetranucleare Eisenchelatkomplexe als Endorezeptoren: Ladungskompensation durch Kationen-Einschluss. *Angewandte Chemie*, **1994**, 106, 1697-1699 3.6 57
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- 623 Bis(2-pyridyl)phosphides and -arsenides of Group 13 Metals: Substituent-Separated Contact Ion Pairs. *Organometallics*, **1995**, 14, 2422-2429 3.8 55
- 622 Neutral Penta- and Hexacoordinate N-Heterocyclic Carbene Complexes Derived from SiX₄ (X = F, Br). *Organometallics*, **2009**, 28, 6374-6377 3.8 54
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619	Synthesis, structure, and theoretical investigation of amidinato supported 1,4-disilabenzene. <i>Chemical Communications</i> , 2010 , 46, 5873-5	5.8	52
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617	Alkali metal derivatives of sulfinimidamides. Preparation and crystal structures. <i>Journal of Organometallic Chemistry</i> , 1991 , 418, 127-145	2.3	52
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