

Ruediger Beckhaus

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Efficient Access to Titanaaziridines by C ₅ H Activation of N-Methylanilines at Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4383-4387.	7.2	94
2	Carbenoid Complexes of Electron-Deficient Transition Metals—Syntheses of and with Short-Lived Building Blocks. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 686-713.	4.4	88
3	Titanium-Based Molecular Squares and Rectangles: Syntheses by Self-Assembly Reactions of Titanocene Fragments and Aromatic N-Heterocycles. <i>Chemistry - A European Journal</i> , 2005, 11, 969-978.	1.7	88
4	Tetrabenzyltitanium: An Improved Catalyst for the Activation of sp ³ C-H Bonds Adjacent to Nitrogen Atoms. <i>ChemCatChem</i> , 2009, 1, 162-172.	1.8	78
5	Reactivity of Acetylenes toward the Titanocene Vinylidene Fragment [Cp [*] 2TiCCH2]. Formation of Methylene-titanacyclobutenes and Vinyltitanium Acetylides. Crystal and Molecular Structures of Cp [*] 2TiC(R) ⁻ CCH2(R ⁻ = R ⁻ = CH3; R ⁻ = SiMe3, R ⁻ = C6H5) and Cp [*] 2Ti(CHCH2)(Cp). <i>Organometallics</i> , 1995, 14, 1176-1187.	1.1	66
6	Bis(η ⁵ -1-pentafulvene)titanium Complexes: Catalysts for Intramolecular Alkene Hydroamination and Reagents for Selective Reactions with N-H Acidic Substrates. <i>Organometallics</i> , 2010, 29, 1806-1817.	1.1	66
7	Dehydroaromatization of Quinoxalines: One-Step Syntheses of Trinuclear 1,6,7,12,13,18-Hexaazatrinaphthylene Titanium Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 14190-14191.	6.6	60
8	Directed Reduction of Six-Membered Nitrogen Heterocycles—Selective Formation of Polynuclear Titanium Complexes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1583-1587.	7.2	55
9	Selective Oxidation and Reduction of Trinuclear Titanium(II) Hexaazatrinaphthylene Complexes: Synthesis, Structure, and Electrochemical Investigations. <i>Inorganic Chemistry</i> , 2007, 46, 7610-7620.	1.9	53
10	Chiral Bis(η ⁵ -1-pentafulvene)titanium Complexes. <i>Organometallics</i> , 2006, 25, 339-348.	1.1	52
11	Struktur und Reaktivität von Bis(η ⁵ -pentamethylcyclopentadienyl)η ² -methyliden)titanacyclobutan. <i>Chemische Berichte</i> , 1992, 125, 291-299.	0.2	50
12	Low-Valent Titanium-Pentafulvene Complexes - Formation of Dinuclear Titanium-Nitrogen Complexes. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1003-1010.	1.0	48
13	Carbenoide Komplexverbindungen elektronenarmer Übergangsmetalle — Synthesen von und mit kurzlebigen Synthesebausteinen. <i>Angewandte Chemie</i> , 1997, 109, 694-722.	1.6	35
14	Pentafulvene complexes of group four metals: Versatile organometallic building blocks. <i>Coordination Chemistry Reviews</i> , 2018, 376, 467-477.	9.5	35
15	Synthesis and Structure of 1-Aza- and 1-Phospha-2-titanacyclobut-4-enes. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 688-690.	4.4	33
16	Molecular and Electronic Structures of Mononuclear and Dinuclear Titanium Complexes Containing ĩ-Radical Anions of 2,2'-Bipyridine and 1,10-Phenanthroline: An Experimental and DFT Computational Study. <i>Inorganic Chemistry</i> , 2015, 54, 4811-4820.	1.9	33
17	Reactions of Secondary Amines with Bis(η ⁵ -1-pentafulvene)titanium Complexes: Formation of Titanium Amides and Titanaaziridines. <i>Organometallics</i> , 2017, 36, 867-876.	1.1	33
18	Low-Valent Pentafulvene Titanium Dinitrogen Complex as a Precursor for Cationic Titanium Complexes. <i>Organometallics</i> , 2009, 28, 6969-6974.	1.1	32

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19	C2 Building blocks in the co-ordination sphere of electron-poor transition metals. Aspects of the chemistry of early-transition-metal carbenoid complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 1991-2002.	1.1	30
20	Synthesis and Reactivity of Bis(η^5 : η^1 -pentafulvene)zirconium Complexes. <i>Organometallics</i> , 2014, 33, 1440-1452.	1.1	30
21	Aromatic Imines in the Titanocene Coordination Sphere – Titanaziridine vs 1-Aza-2-titanacyclopent-4-ene Structures. <i>Organometallics</i> , 2014, 33, 6785-6795.	1.1	27
22	Reactions of Pentafulvene Complexes of Titanium with Carbonyl Compounds – Diastereoselective Synthesis of η^5 , η^1 -Chelate Complexes with Cp–O Ligands. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1729-1737.	1.0	24
23	Flexible Structural Features of Pentafulvene Titanium Derivatives: Isolation and Characterization of NHC Complexes. <i>Chemistry - A European Journal</i> , 2016, 22, 4405-4407.	1.7	24
24	Spin Transition of an Iron(II) Organoborate Complex in Different Polymorphs and in Vacuum-Deposited Thin Films: Influence of Cooperativity. <i>Inorganic Chemistry</i> , 2020, 59, 7966-7979.	1.9	24
25	Regioselective Reactions of 1,3-Diynes with the Titanocene Vinylidene Fragment [$\text{Cp}^*2\text{TiCCH}_2$]. Crystal and Molecular Structure of $\text{Cp}^*2\text{Ti}(\text{C}(\text{C}(\text{SiMe}_3)_2)\text{C}(\text{SiMe}_3)\text{CCH}_2)$. <i>Organometallics</i> , 1996, 15, 4731-4736.	1.1	23
26	Bulky Titanium Amides: C-H Bond Activation under Mild Conditions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1289-1302.	1.0	23
27	Imines in the Titanium Coordination Sphere: Highly Reactive Titanaziridines and Larger Titanacycles Formed by Subsequent C-C Coupling Reactions. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5171-5187.	1.0	23
28	Direct Access to Titanocene Imides via Bis(η^5 : η^1 -penta-fulvene)titanium Complexes and Primary Amines. <i>Organometallics</i> , 2018, 37, 4506-4514.	1.1	23
29	A Novel Route to Fulvene Complexes of Titanium – Diastereoselective Complexation of Pentafulvenes to Cyclopentadienyltitanium Fragments. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2056-2058.	7.2	22
30	Theoretical studies on titanium pentafulvene complexes. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 4539-4544.	0.8	22
31	Formation of Binuclear Zigzag Hexapentaene Titanium Complexes via a Titanacumulene [$\text{Ti}=\text{C}=\text{C}=\text{CH}_2$] Intermediate. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12297-12301.	7.2	21
32	Expanding the Scope: Monopentafulvene and -Benzofulvene Complexes of Zirconium and Hafnium. <i>Organometallics</i> , 2018, 37, 415-421.	1.1	21
33	From Organic Azides through Titanium Triazenido Complexes to Titanium Imides. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 131-136.	1.0	21
34	Reactions of Secondary Allylamines with Bis(η^5 : η^1 -pentafulvene)titanium Complexes: Selective Formation of Monoazabutadiene Titanium Complexes by N–H and C–H Bond Activation. <i>Organometallics</i> , 2017, 36, 2973-2981.	1.1	21
35	Synthese und Struktur von 1-Aza- und 1-Phospha- η^2 -titanacyclobutenen. <i>Angewandte Chemie</i> , 1995, 107, 738-740.	1.6	19
36	Electrophilic d ⁰ Cations of Group 4 Metals (M = Ti, Zr, Hf) Derived from Monopentafulvene Complexes: Direct Formation of Tridentate Cp, O, P-Ligands. <i>Organometallics</i> , 2018, 37, 1192-1205.	1.1	19

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37	Titanium-Catalyzed Hydroaminoalkylation of Ethylene. <i>Chemistry - A European Journal</i> , 2020, 26, 2138-2142.	1.7	19
38	Reactions of the Titanaallene Intermediate [Cp* ₂ TiCCH ₂] with Isonitriles: An Approach to the Chemistry of Radialene Type Molecules. <i>Organometallics</i> , 2001, 20, 1354-1359.	1.1	17
39	Bis(η ⁵ :η ¹ -pentafulvene)niobium(V) Complexes: Efficient Synthons for Niobium Carbene and Imido Derivatives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12062-12066.	7.2	16
40	Intermolecular Hydroaminoalkylation of Propadiene. <i>Chemistry - A European Journal</i> , 2020, 26, 14300-14304.	1.7	16
41	Synthesis and Structural Characterization of Azatitanacyclobutane Derivatives. , 1998, 1998, 253-256.		15
42	Titanocenes. , 0, , 153-239.		15
43	Activation of Molecular Hydrogen by Bis(η ⁵ , η ¹ -pentafulvene)-titanium Complexes - Efficient Formation of Titanium(III)hydrides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 732-735.	0.6	15
44	Intermolecular Hydroaminoalkylation of Alkynes. <i>Chemistry - A European Journal</i> , 2021, 27, 6899-6903.	1.7	15
45	Regioselective reactions of isothiocyanates with the titanocene vinylidene fragment [Ti(η ¹ -CMe)Tj] ETQq1 1 0.784314 rjB Society Dalton Transactions, 1997, , 2249-2256.	1.1	14
46	Synthesis of a titanium ethylene complex <i>via</i> C-H-activation and alternative access to Cp ₂ Ti(η ² -Me ₃ SiC ₂ SiMe ₃). <i>Dalton Transactions</i> , 2020, 49, 2068-2072.	1.6	14
47	Zwitterionic d ⁰ Metal Complexes [(Cy ₂ N) ₃ M] ⁺ [(1/4-Me)B(C ₆ F ₅) ₃] ⁻ (M = Ti, Zr, Hf) Derived from Tris(dicyclohexylamido)methyl Metal Precursors. <i>Organometallics</i> , 2016, 35, 3728-3733.	1.1	13
48	From Five to Seven: Ring Expansion of Monoazadiene Titanium Complexes by Insertion of Aldehydes, Ketones and Nitriles. <i>Chemistry - A European Journal</i> , 2017, 23, 15827-15833.	1.7	13
49	Crystal structures of titanium-aluminium and gallium complexes bearing two η ⁴ -CH ₃ units. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 691-693.	0.2	13
50	Convenient Synthesis of Cationic Titanium Complexes with Tridentate Cp, N, P-Ligand Framework: FLP-Like Reactivity at the Ti-N Bond and Unexpected Ligand Hydrogenation Reaction. <i>Organometallics</i> , 2018, 37, 1979-1991.	1.1	13
51	Synthesis, Reactivity, and Insights into the Lewis Acidity of Mononuclear Titanocene Imido Complexes Bearing Sterically Demanding Terphenyl Moieties. <i>Organometallics</i> , 2020, 39, 3232-3239.	1.1	13
52	Unexpected Trimerization of Pyrazine in the Coordination Sphere of Low-Valent Titanocene Fragments. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2044-2049.	2.3	12
53	Synthesis, Characterization and Reactivity of Formal 20 Electron Zirconocene-Pentafulvene Complexes. <i>Organometallics</i> , 2017, 36, 2004-2013.	1.1	12
54	Ring-Slipped (2,2'-bipyridine)(η ³ -cyclopentadienyl)(η ⁵ -cyclopentadienyl)vanadium(II) and Its Oxidation to (2,2'-bipyridine)bis(η ⁵ -cyclopentadienyl)vanadium(III) Tetraphenylborate. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5168-5172.	1.0	11

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55	FLP behaviour of cationic titanium complexes with tridentate Cp, O, N-ligands: highly efficient syntheses and activation reactions of C-X bonds (X = Cl, F). Dalton Transactions, 2019, 48, 1516-1523.	1.6	11
56	Cationic Group 4 Complexes (M = Ti, Zr, Hf): Modifications and Limitations in the Design of Tridentate Cp, O, P-Ligand Frameworks Built Directly in the Coordination Sphere of the Metal. European Journal of Inorganic Chemistry, 2018, 2018, 5146-5159.	1.0	10
57	Formation of Binuclear Zigzag Hexapentaene Titanium Complexes via a Titanacumulene [Ti=C=C=CH ₂] ₂ Intermediate. Angewandte Chemie, 2017, 129, 12465-12469.	1.6	9
58	Self-Assembly Reactions To Form Multinuclear Zirconium(III) and Titanium(III) Complexes with Imidazole Derivatives as Bridging Ligands. European Journal of Inorganic Chemistry, 2018, 2018, 3717-3724.	1.0	9
59	Molecular structures of a series of substituted bis(η ⁵ -cyclopentadienyl)titanium dihalides Cp ^R ₂ TiX ₂ [X = F, Cl, Br and I; R = CHPh ₂ , CH(p-Tol) ₂ and adamantyl]. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 442-451.	0.2	9
60	Remarkably Robust Mono-n-butyl Group IV Dicyclohexylamido Complexes {(Cy) ₂ N} ₃ M(n-butyl) (Cy: cyclohexyl [C ₆ H ₁₁]), Tj ETQq0 0 0 rgBT /Overlock	1.0	8
61	From Five to Five: Titanium Ketimine Complexes with Monoaza-butadiene η ⁴ -Coordination Mode and Hidden η ² -Imine Reactivity. Organometallics, 2017, 36, 4779-4793.	1.1	8
62	Synthesis, Crystal Structures, and Magnetic and Electrochemical Properties of Highly Phenyl Substituted Trinuclear 5,6,11,12,17,18-Hexaazatrinaphthylene (HATNPh ₆)-Bridged Titanium Complexes. Inorganic Chemistry, 2018, 57, 11165-11174.	1.9	8
63	Reaction of Pentafulvene Titanium and Zirconium Complexes with Phosphorus Ylides: Stoichiometric Reactions and Catalytic Intramolecular Proton Shuttles. Organometallics, 2019, 38, 829-843.	1.1	8
64	Imines in the Titanium Coordination Sphere: η ¹ -Imine Complexes as Sources of Azavinylidenes and Four-Membered Imine-Amido-N,N ² Chelates. European Journal of Inorganic Chemistry, 2016, 2016, 5242-5249.	1.0	6
65	Reactivity Studies of a Bis(η ⁵ :f-η ¹ -benzofulvene)titanium Complex Including Simultaneous N ^H and C(sp ²) ^H Activation of Dibenzylamine. Organometallics, 2019, 38, 3760-3767.	1.1	6
66	Electronic Transitions in Different Redox States of Trinuclear 5,6,11,12,17,18-Hexaazatrinaphthylene-Bridged Titanium Complexes: Spectroelectrochemistry and Quantum Chemistry. ChemPhysChem, 2020, 21, 2506-2514.	1.0	6
67	Cooperative Reactions of Pentafulvene Niobium Complexes: Formation of Alkylidene, Imido, Hydrazido, and Niobaaziridine Complexes. Organometallics, 2021, 40, 3298-3305.	1.1	6
68	Direct Access to Terminal Titanocene Hydrazides via Bis(η ⁵ :f-η ¹ -pentafulvene)titanium Complexes and 1,1-Diphenylhydrazine. Organometallics, 2018, 37, 4515-4520.	1.1	5
69	Bis(η ⁵ :f-η ¹ -pentafulvene)niobium(V) Complexes: Efficient Synthons for Niobium Carbene and Imido Derivatives. Angewandte Chemie, 2018, 130, 12238-12242. Crystal structure of an isomeric bis[(η ⁵ :f-η ¹)] Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 162 Td (¹-6,6-d	1.6	5
70	¹-dinitrogen complex, C ₆ H ₆ N ₂ Ti ₂ . Zeitschrift Fur Kristallographie - New Crystal Structures, 2016, 231, 1095-1097.	0.1	4
71	Unexpected Selective Methyl Group Abstractions from SiMe ₃ Moieties of CH ₂ SiMe ₃ Ligands To Give New Cationic Titanium Complexes. Chemistry - A European Journal, 2019, 25, 7119-7130.	1.7	4
72	Selective propargylic C(sp ³) ^H activation of methyl-substituted alkynes versus [2 + 2] cycloaddition at a titanium imido template. Chemical Science, 2021, 12, 13711-13718.	3.7	3

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73	Crystal structure of the formal 20 electron zirconocene pentafulvene complex Cp ₂ Zr(ĭ ⁵ ,ĭ ¹ -adamantylidenepentafulvene):toluene:hexane = 1:0.125:0.125. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1823-1826.	0.2	3
74	Reaction of a bis(pentafulvene)titanium complex with an N-heterocyclic olefin: Câ€“H-activation leads to resonance between a titanium vinyl and titanium alkylidene complex. Dalton Transactions, 2022, 51, 10690-10696.	1.6	3
75	Crystal structure of 1,1-bis(ĭ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 672 Td (⁵-adamantylcyclopentadieny C ₄₂ H ₅₅ NSiTi. Zeitschrift Fur Kristallographie - New Crystal Structures, 2017, 232, 671-673.	0.1	2
76	To Coordinate or not to Coordinate: The Special Role of Chalcogen Ether Functionalities in the Design of Twofold Functionalized Cyclopentadienyl Ligands [Cp,O,<i>Ch</i> (<i>Ch</i> = S, Se)]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 595-604.	0.6	2
77	Bisazines in the Coordination Sphere of Early Transition Metals. , 0, , 183-207.		2
78	Crystal structures of 2,3,8,9,14,15-hexamethyl-5,6,11,12,17,18-hexaazatrinaphthylene and 2,3,8,9,14,15-hexaphenyl-5,6,11,12,17,18-hexaazatrinaphthylene dichloromethane disolvate. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 167-171.	0.2	2
79	Imines in the Titanium Coordination Sphere - Transformation of Imido Chlorides to Nitrilium Ions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 443-446.	0.6	1
80	Teaching <i>c</i>-phosphanylimines the titanaaziridine coordination mode. Dalton Transactions, 2019, 48, 1936-1940.	1.6	1
81	Electron Transfer Reactions in Three-Nuclear Ti Complexes with ĩ€-Acceptor Ligands. ECS Meeting Abstracts, 2018, MA2018-02, 1783-1783.	0.0	1
82	Cationic Group 4 Complexes (M = Ti, Zr, Hf): Modifications and Limitations in the Design of Tridentate Cp,O,P-Ligand Frameworks Built Directly in the Coordination Sphere of the Metal. European Journal of Inorganic Chemistry, 2018, 2018, 5137-5137.	1.0	0
83	Frontispiece: Unexpected Selective Methyl Group Abstractions from SiMe ₃ Moieties of CH ₂ SiMe ₃ Ligands To Give New Cationic Titanium Complexes. Chemistry - A European Journal, 2019, 25, .	1.7	0
84	Tris(dicyclohexylamido) Group 4 Metal Allyl and Phenylacetylide Complexes â€“ Synthesis and Characterization. European Journal of Inorganic Chemistry, 2020, 2020, 4247-4253.	1.0	0
85	Crystal structure of the ĩ-4-ketimine titanium complex (diphenylamido-ĭN){3-methyl-6-[(4-methylphenyl)(phenylazanidyl)methylidene]cyclohexa-2,4-dien-1-yl-ĭ ² N,C1}(ĭ ⁵ -pentamethylcyclopentadienyl)zirconium(IV) complex. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 34-37.		0
86	Structure and Properties of Tetrabenzo[a,c,g,i]Fluorenyl-Based Titanium Catalysts. , 0, , 92-124.		0