

# Ruediger Beckhaus

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Reaction of a bis(pentafulvene)titanium complex with an N-heterocyclic olefin: C-H-activation leads to resonance between a titanium vinyl and titanium alkylidene complex. Dalton Transactions, 2022, 51, 10690-10696.	1.6	3
2	Selective propargylic C(sp <sup>3</sup> )-H activation of methyl-substituted alkynes versus [2 + 2] cycloaddition at a titanium imido template. Chemical Science, 2021, 12, 13711-13718.	3.7	3
3	Intermolecular Hydroaminoalkylation of Alkynes. Chemistry - A European Journal, 2021, 27, 6899-6903.	1.7	15
4	Cooperative Reactions of Pentafulvene Niobium Complexes: Formation of Alkylidene, Imido, Hydrazido, and Niobaaziridine Complexes. Organometallics, 2021, 40, 3298-3305.	1.1	6
5	Titanium-Catalyzed Hydroaminoalkylation of Ethylene. Chemistry - A European Journal, 2020, 26, 2138-2142.	1.7	19
6	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
7	Intermolecular Hydroaminoalkylation of Propadiene. Chemistry - A European Journal, 2020, 26, 14300-14304.	1.7	16
8	Tris(dicyclohexylamido) Group 4 Metal Allyl and Phenylacetylide Complexes - Synthesis and Characterization. European Journal of Inorganic Chemistry, 2020, 2020, 4247-4253.	1.0	0
9	Synthesis, Reactivity, and Insights into the Lewis Acidity of Mononuclear Titanocene Imido Complexes Bearing Sterically Demanding Terphenyl Moieties. Organometallics, 2020, 39, 3232-3239.	1.1	13
10	Spin Transition of an Iron(II) Organoborate Complex in Different Polymorphs and in Vacuum-Deposited Thin Films: Influence of Cooperativity. Inorganic Chemistry, 2020, 59, 7966-7979.	1.9	24
11	Synthesis of a titanium ethylene complex via C-H-activation and alternative access to Cp <sub>2</sub> Ti(η <sup>2</sup> -Me <sub>3</sub> SiC <sub>2</sub> SiMe <sub>3</sub> ). Dalton Transactions, 2020, 49, 2068-2072.	1.6	14
12	Reactivity Studies of a Bis(η <sup>5</sup> -indenyl-1-yl-benzofulvene)titanium Complex Including Simultaneous N-H and C(sp <sup>2</sup> )-H Activation of Dibenzylamine. Organometallics, 2019, 38, 3760-3767.	1.1	6
13	Teaching η <sup>5</sup> -phosphanylimines the titanaaziridine coordination mode. Dalton Transactions, 2019, 48, 1936-1940.	1.6	1
14	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
15	Frontispiece: Unexpected Selective Methyl Group Abstractions from SiMe <sub>3</sub> Moieties of CH <sub>2</sub> SiMe <sub>3</sub> Ligands To Give New Cationic Titanium Complexes. Chemistry - A European Journal, 2019, 25, .	1.7	0
16	Unexpected Selective Methyl Group Abstractions from SiMe <sub>3</sub> Moieties of CH <sub>2</sub> SiMe <sub>3</sub> Ligands To Give New Cationic Titanium Complexes. Chemistry - A European Journal, 2019, 25, 7119-7130.	1.7	4
17	To Coordinate or not to Coordinate: The Special Role of Chalcogen Ether Functionalities in the Design of Twofold Functionalized Cyclopentadienyl Ligands [Cp <sub>2</sub> O, Ch] (Ch = S, Se). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 595-604.	0.6	2
18	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

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19	Expanding the Scope: Monopentafulvene and -Benzofulvene Complexes of Zirconium and Hafnium. <i>Organometallics</i> , 2018, 37, 415-421.	1.1	21
20	Electrophilic d <sup>0</sup> 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
21	From Organic Azides through Titanium Triazenido Complexes to Titanium Imides. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 131-136.	1.0	21
22	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. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 5137-5137.	1.0	0
23	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. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 5146-5159.	1.0	10
24	Pentafulvene complexes of group four metals: Versatile organometallic building blocks. <i>Coordination Chemistry Reviews</i> , 2018, 376, 467-477.	9.5	35
25	Bis(η <sup>5</sup> :η <sup>1</sup> -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
26	Direct Access to Titanocene Imides via Bis(η <sup>5</sup> :η <sup>1</sup> -pentafulvene)titanium Complexes and Primary Amines. <i>Organometallics</i> , 2018, 37, 4506-4514.	1.1	23
27	Direct Access to Terminal Titanocene Hydrazides via Bis(η <sup>5</sup> :η <sup>1</sup> -pentafulvene)titanium Complexes and 1,1-Diphenylhydrazine. <i>Organometallics</i> , 2018, 37, 4515-4520.	1.1	5
28	Bis(η <sup>5</sup> :η <sup>1</sup> -pentafulvene)niobium(V) Complexes: Efficient Synthons for Niobium Carbene and Imido Derivatives. <i>Angewandte Chemie</i> , 2018, 130, 12238-12242.	1.6	5
29	Self-Assembly Reactions To Form Multinuclear Zirconium(III) and Titanium(III) Complexes with Imidazole Derivatives as Bridging Ligands. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3717-3724.	1.0	9
30	Synthesis, Crystal Structures, and Magnetic and Electrochemical Properties of Highly Phenyl Substituted Trinuclear 5,6,11,12,17,18-Hexaazatrinaphthylene (HATNPh <sub>6</sub> )-Bridged Titanium Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 11165-11174.	1.9	8
31	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
32	Molecular structures of a series of substituted bis(η <sup>5</sup> -cyclopentadienyl)titanium dihalides Cp <sup>2</sup> R <sub>2</sub> TiX <sub>2</sub> [X = F, Cl, Br and I; R = CHPh <sub>2</sub> , CH(p-Tol) <sub>2</sub> and adamantyl]. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 442-451.	0.2	9
33	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. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 167-171.	0.2	2
34	Electron Transfer Reactions in Three-Nuclear Ti Complexes with π-Acceptor Ligands. <i>ECS Meeting Abstracts</i> , 2018, MA2018-02, 1783-1783.	0.0	1
35	Crystal structure of the η <sup>4</sup> -ketimine titanium complex (diphenylamido-η <sup>4</sup> N){3-methyl-6-[(4-methylphenyl)(phenylazanidyl)methylidene]cyclohexa-2,4-dien-1-yl-η <sup>2</sup> N,C1}(η <sup>5</sup> -pentamethylcyclopentadienyl)titanium. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 34-37.		
36	Reactions of Secondary Amines with Bis(η <sup>5</sup> :η <sup>1</sup> -pentafulvene)titanium Complexes: Formation of Titanium Amides and Titanaaziridines. <i>Organometallics</i> , 2017, 36, 867-876.	1.1	33

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37	Activation of Molecular Hydrogen by Bis( $\eta^5$ , $\eta^1$ -pentafulvene)-titanium Complexes - Efficient Formation of Titanium(III)hydrides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 732-735.	0.6	15
38	Synthesis, Characterization and Reactivity of Formal 20 Electron Zirconocene-Pentafulvene Complexes. <i>Organometallics</i> , 2017, 36, 2004-2013.	1.1	12
39	Imines in the Titanium Coordination Sphere - Transformation of Imidoyl Chlorides to Nitrilium Ions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 443-446.	0.6	1
40	From Five to Five: Titanium Ketimine Complexes with Monoaza-butadiene $\eta^4$ -Coordination Mode and Hidden $\eta^2$ -Imine Reactivity. <i>Organometallics</i> , 2017, 36, 4779-4793.	1.1	8
41	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
42	Formation of Binuclear Zigzag Hexapentaene Titanium Complexes via a Titanacumulene [Ti=C=C=CH <sub>2</sub> ] <sub>2</sub> Intermediate. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12297-12301.	7.2	21
43	Formation of Binuclear Zigzag Hexapentaene Titanium Complexes via a Titanacumulene [Ti=C=C=CH <sub>2</sub> ] <sub>2</sub> Intermediate. <i>Angewandte Chemie</i> , 2017, 129, 12465-12469.	1.6	9
44	Crystal structure of 1,1-bis( $\eta^5$ , $\eta^1$ -adamantylcyclopentadienyl)-3-phenyl-C <sub>42</sub> H <sub>55</sub> NSiTi. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2017, 232, 671-673.	0.1	2
45	Crystal structures of titanium-aluminum and gallium complexes bearing two $\eta^4$ -CH <sub>3</sub> units. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 691-693.	0.2	13
46	Reactions of Secondary Allylamines with Bis( $\eta^5$ , $\eta^1$ -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
47	Crystal structure of the formal 20 electron zirconocene pentafulvene complex Cp <sub>2</sub> Zr( $\eta^5$ , $\eta^1$ -adamantylidenepentafulvene):toluene: $\eta^6$ -hexane = 1:0.125:0.125. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 1823-1826.	0.2	3
48	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
49	Imines in the Titanium Coordination Sphere: $\eta^1$ -Imine Complexes as Sources of Azavinylidenes and Four-Membered Imine-Amido-N <sub>2</sub> Chelates. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5242-5249. Crystal structure of an isomeric bis( $\eta^5$ , $\eta^1$ -adamantylcyclopentadienyl)-3-phenyl-C <sub>42</sub> H <sub>55</sub> NSiTi. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2017, 232, 671-673.	1.0	6
50	$\eta^1$ -dinitrogen complex, C <sub>60</sub> H <sub>66</sub> N <sub>2</sub> Ti <sub>2</sub> . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2017, 232, 671-673.	0.1	4
51	Zwitterionic $\eta^3$ Metal Complexes [(C <sub>2</sub> N) <sub>2</sub> (C <sub>3</sub> M)] <sup>+</sup> [( $\eta^4$ -Me)B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> ] <sup>-</sup> (M = Ti, Zr, Hf) Derived from Tris(dicyclohexylamido)methyl Metal Precursors. <i>Organometallics</i> , 2016, 35, 3728-3733.	1.1	13
52	Imines in the Titanium Coordination Sphere: Highly Reactive Titanaaziridines and Larger Titanacycles Formed by Subsequent C-C Coupling Reactions. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5171-5187.	1.0	23
53	Efficient Access to Titanaaziridines by C-H Activation of $\eta^6$ -Methylanilines at Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4383-4387.	7.2	94
54	Molecular and Electronic Structures of Mononuclear and Dinuclear Titanium Complexes Containing $\eta^6$ -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

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55	Remarkably Robust Mono- <i>n</i> -butyl Group IV Dicyclohexylamido Complexes $\{(C_6H_{11})_2N\}_3M(n\text{-butyl})$ (Cy: cyclohexyl [ $C_6H_{11}$ ],) Tj ETQq11 0.7848 14 rgB		
56	Bulky Titanium Amides: C-H Bond Activation under Mild Conditions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1289-1302.	1.0	23
57	Synthesis and Reactivity of Bis( $\eta^5$ - $\eta^1$ -pentafulvene)zirconium Complexes. <i>Organometallics</i> , 2014, 33, 1440-1452.	1.1	30
58	Aromatic Imines in the Titanocene Coordination Sphere—Titanaaziridine vs 1-Aza-2-titanacyclopent-4-ene Structures. <i>Organometallics</i> , 2014, 33, 6785-6795.	1.1	27
59	Bis( $\eta^5$ : $\eta^1$ -pentafulvene)titanium Complexes: Catalysts for Intramolecular Alkene Hydroamination and Reagents for Selective Reactions with $N\text{-}^H$ Acidic Substrates. <i>Organometallics</i> , 2010, 29, 1806-1817.	1.1	66
60	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
61	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
62	Low-Valent Pentafulvene Titanium Dinitrogen Complex as a Precursor for Cationic Titanium Complexes. <i>Organometallics</i> , 2009, 28, 6969-6974.	1.1	32
63	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
64	Ring-Slipped (2,2'-bipyridine)( $\eta^3$ -cyclopentadienyl)( $\eta^5$ -cyclopentadienyl)vanadium(II) and Its Oxidation to (2,2'-bipyridine)bis( $\eta^5$ -cyclopentadienyl)vanadium(III) Tetraphenylborate. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5168-5172.	1.0	11
65	Chiral Bis( $\eta^5$ - $\eta^1$ -pentafulvene)titanium Complexes. <i>Organometallics</i> , 2006, 25, 339-348.	1.1	52
66	Theoretical studies on titanium pentafulvene complexes. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 4539-4544.	0.8	22
67	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
68	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
69	Dehydroaromatization of Quinoxalines: A 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
70	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
71	Reactions of Pentafulvene Complexes of Titanium with Carbonyl Compounds—Diastereoselective Synthesis of $\eta^5$ -Chelate Complexes with Cp-O Ligands. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1729-1737.	1.0	24
72	Reactions of the Titanaallene Intermediate $[Cp^*_2TiCCH_2]$ with Isonitriles: An Approach to the Chemistry of Radialene Type Molecules. <i>Organometallics</i> , 2001, 20, 1354-1359.	1.1	17

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73	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
74	Synthesis and Structural Characterization of Azatitanacyclobutane Derivatives. , 1998, 1998, 253-256.		15
75	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
76	Regioselective reactions of isothiocyanates with the titanocene vinylidene fragment $[Ti(\eta^5-C_5Me_5)(\eta^1-C_5Me_5)TiCH_2]$ . <i>Society Dalton Transactions</i> , 1997, , 2249-2256.	1.1	14
77	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
78	Carbenoid Komplexverbindungen elektronarmer Übergangsmetalle – Synthesen von und mit kurzlebigen Synthesebausteinen. <i>Angewandte Chemie</i> , 1997, 109, 694-722.	1.6	35
79	Regioselective Reactions of 1,3-Diynes with the Titanocene Vinylidene Fragment $[Cp^*_2TiCCH_2]$ . Crystal and Molecular Structure of $Cp^*_2TiC(C_6H_5)(SiMe_3)CCH_2$ . <i>Organometallics</i> , 1996, 15, 4731-4736.	1.1	23
80	Reactivity of Acetylenes toward the Titanocene Vinylidene Fragment $[Cp^*_2TiCCH_2]$ . Formation of Methylene-titanacyclobutenes and Vinyltitanium Acetylides. Crystal and Molecular Structures of $Cp^*_2TiC(R)CCH_2$ ( $R = CH_3$ ; $R = SiMe_3$ , $R = C_6H_5$ ) and $Cp^*_2Ti(CHCH_2)(C_6H_5)$ . <i>Organometallics</i> , 1996, 15, 1176-1187.	1.1	66
81	Synthese und Struktur von 1-Aza- und 1-Phospha-2-titanacyclobut-4-enen. <i>Angewandte Chemie</i> , 1995, 107, 738-740.	1.6	19
82	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
83	Struktur und Reaktivität von Bis( $\eta^5$ -pentamethylcyclopentadienyl) $\eta^1$ -methyliden)titanacyclobutan. <i>Chemische Berichte</i> , 1992, 125, 291-299.	0.2	50
84	Titanocenes. , 0, , 153-239.		15
85	Bisazines in the Coordination Sphere of Early Transition Metals. , 0, , 183-207.		2
86	Structure and Properties of Tetrabenzo[a,c,g,i]Fluorenyl-Based Titanium Catalysts. , 0, , 92-124.		0