

# Markus Enders

## List of Publications by Year in descending order

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101  
papers

2,850  
citations

126901

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115  
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docs citations

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times ranked

2626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Connecting Organic Redox-Active Building Blocks through Mild Noncatalytic C-H Activation. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	2
2	Solid-State Conformational Isomerism Lacking a Gas-Phase Energy Barrier: Its Structural, Spectroscopic, and Theoretical Identification in an Organochromium(III) Complex. <i>Organometallics</i> , 2022, 41, 1558-1564.	2.3	1
3	Improved Single-Site Chromium Catalysts with Electron Rich Indenyl Ligands for the Formation of Ultrahigh Molecular Weight Polyethylene. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1278-1286.	2.0	4
4	Validation of Ab-Initio-Predicted Magnetic Anisotropies and Magneto-Structural Correlations in Linear Hetero-trinuclear Dy III - Ni II 2 Compounds. <i>Chemistry - A European Journal</i> , 2021, 27, 9372-9382.	3.3	4
5	Dioxygen Activation and Pyrrole C-Cleavage with Calix[4]pyrrolato Aluminates: Enzyme Model by Structural Constraint. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15632-15640.	13.8	24
6	The Stronger the Better: Donor Substituents Push Catalytic Activity of Molecular Chromium Olefin Polymerization Catalysts. <i>Chemistry - A European Journal</i> , 2021, 27, 11084-11093.	3.3	6
7	Switching from Metal-to Ligand-Based Oxidation in Cobalt Complexes with Redox-Active Bisguanidine Ligands. <i>Chemistry - A European Journal</i> , 2021, 27, 11852-11867.	3.3	7
8	A Copper(I) Complex with Two Unpaired Electrons, Synthesised by Oxidation of a Copper(II) Complex with Two Redox-Active Ligands. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23451-23462.	13.8	9
9	Synthese eines Kupfer(I)-Komplexes mit zwei ungepaarten Elektronen durch Oxidation eines Kupfer(II)-Komplexes mit zwei redoxaktiven Liganden. <i>Angewandte Chemie</i> , 2021, 133, 23641.	2.0	1
10	Observability of Paramagnetic NMR Signals at over 10 <sup>6</sup> ppm Chemical Shifts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22856-22864.	13.8	17
11	Observability of paramagnetic NMR signals at over 10 <sup>6</sup> ppm chemical shifts. <i>Angewandte Chemie</i> , 2021, 133, 23038.	2.0	1
12	Solution NMR Spectroscopy of Single-Molecule Magnets. , 2021, , .		0
13	Highly Oxidized States of Phthalocyaninato Terbium(III) Multiple-Decker Complexes Showing Structural Deformations, Biradical Properties and Decreases in Magnetic Anisotropy. <i>Chemistry - A European Journal</i> , 2020, 26, 8621-8630.	3.3	19
14	A New Class of Lanthanide Complexes with Three Ligand Centered Radicals: NMR Evaluation of Ligand Field Energy Splitting and Magnetic Coupling. <i>Chemistry - A European Journal</i> , 2019, 25, 10668-10677.	3.3	17
15	Combining HFEP and NMR Spectroscopies to Characterize Organochromium(III) Complexes with Large Zero-Field Splitting. <i>Organometallics</i> , 2019, 38, 2179-2188.	2.3	13
16	All-polyethylene composites reinforced via extended-chain UHMWPE nanostructure formation during melt processing. <i>Polymer</i> , 2018, 140, 107-116.	3.8	28
17	Bowl Shaped Monodentate Phosphines by Condensation of Imidazole Units with Boranes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 630-645.	1.2	1
18	Isolation and structural characterization of a titanacyclopropane as key intermediate in the double aryl Grignard addition to 2-(arylethynyl)pyridine derivatives. <i>Chemical Communications</i> , 2018, 54, 2228-2231.	4.1	4

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19	Comparison of the Magnetic Anisotropy and Spin Relaxation Phenomenon of Dinuclear Terbium(III) Phthalocyaninato Single-Molecule Magnets Using the Geometric Spin Arrangement. <i>Journal of the American Chemical Society</i> , 2018, 140, 2995-3007.	13.7	98
20	Supramolecular Approach for Enhancing Single-Molecule Magnet Properties of Terbium(III)-Phthalocyaninato Double-Decker Complexes with Crown Moieties. <i>Chemistry - A European Journal</i> , 2018, 24, 4320-4327.	3.3	36
21	The coordination chemistry of the neutral tris-2-pyridyl silicon ligand [PhSi(6-Me-2-py) <sub>3</sub> ]. <i>Dalton Transactions</i> , 2018, 47, 7036-7043.	3.3	15
22	Taking Solution Proton NMR to Its Extreme: Prediction and Detection of a Hydride Resonance in an Intermediate-Spin Iron Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 17413-17417.	13.7	37
23	Twofold Oxidized and Twofold Protonated Redox-Active Guanidine: An Ultimate Intermediate in Proton-Coupled Electron-Transfer Reactions. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5910-5915.	2.4	16
24	Proton Control of the Lanthanoid Single-Ion Magnet Behavior of a Double-Decker Complex with an Indolenine-Substituted Annulene Ligand. <i>Inorganic Chemistry</i> , 2017, 56, 6512-6521.	4.0	24
25	NMR analysis of an Fe(i)-carbene complex with strong magnetic anisotropy. <i>Dalton Transactions</i> , 2017, 46, 5159-5169.	3.3	18
26	Solution and solid state structures and magnetism of a series of linear trinuclear compounds with a hexacoordinate Ln <sup>III</sup> and two terminal Ni <sup>II</sup> centers. <i>Dalton Transactions</i> , 2017, 46, 138-149.	3.3	15
27	Improving 1-Hexene Incorporation of Highly Active Cp-Chromium-Based Ethylene Polymerization Catalysts. <i>Macromolecules</i> , 2017, 50, 35-43.	4.8	21
28	Tailored Nanostructured HDPE Wax/UHMWPE Reactor Blends as Additives for Melt-Processable All-Polyethylene Composites and in Situ UHMWPE Fiber Reinforcement. <i>Macromolecules</i> , 2017, 50, 8129-8139.	4.8	49
29	Ligand-Field Energy Splitting in Lanthanide-Based Single-Molecule Magnets by NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2017, 56, 15285-15294.	4.0	31
30	Molecular weight control in organochromium olefin polymerization catalysis by hemilabile ligand-metal interactions. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1372-1379.	2.2	8
31	Paramagnetic NMR Analysis of Substituted Biscyclooctatetraene Lanthanide Complexes. <i>Organometallics</i> , 2016, 35, 1916-1922.	2.3	21
32	How Ions Arrange in Solution: Detailed Insight from NMR Spectroscopy of Paramagnetic Ion Pairs. <i>ChemPhysChem</i> , 2016, 17, 3423-3429.	2.1	5
33	Nanostructured Polyethylene Reactor Blends with Tailored Trimodal Molar Mass Distributions as Melt-Processable All-Polymer Composites. <i>Macromolecules</i> , 2016, 49, 8048-8060.	4.8	35
34	The HMGB1 protein induces a metabolic type of tumour cell death by blocking aerobic respiration. <i>Nature Communications</i> , 2016, 7, 10764.	12.8	41
35	Radical Monocationic Guanidino-Functionalized Aromatic Compounds (GFAs) as Bridging Ligands in Dinuclear Metal Acetate Complexes: Synthesis, Electronic Structure, and Magnetic Coupling. <i>Inorganic Chemistry</i> , 2016, 55, 1683-1696.	4.0	25
36	Ligand-Field Radical Interaction with f-Shell Unpaired Electrons in Phthalocyaninato-Lanthanoid Single-Molecule Magnets: A Solution NMR Spectroscopic and DFT Study. <i>Chemistry - A European Journal</i> , 2015, 21, 14421-14432.	3.3	38

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37	Î±-Substituted Bis(octabutoxyphthalocyaninato)Terbium(III) Double-Decker Complexes: Preparation and Study of Protonation by NMR and DFT. <i>Inorganic Chemistry</i> , 2015, 54, 11986-11992.	4.0	15
38	Reactivity of halfsandwich rare-earth metal methylaluminates toward potassium (2,4,6-tri-tert-butylphenyl)amide and 1-adamantylamine. <i>New Journal of Chemistry</i> , 2015, 39, 7640-7648.	2.8	8
39	Borane-Bridged Ruthenium Complex Bearing a PNP Ligand: Synthesis and Structural Characterization. <i>Organometallics</i> , 2015, 34, 5113-5118.	2.3	23
40	Chromium Aryl Complexes with N-Donor Ligands as Catalyst Precursors for Selective Ethylene Trimerization. <i>Organometallics</i> , 2014, 33, 5758-5766.	2.3	21
41	Graphene-Supported Dual-Site Catalysts for Preparing Self-Reinforcing Polyethylene Reactor Blends Containing UHMWPE Nanoplatelets and in Situ UHMWPE Shish-Kebab Nanofibers. <i>Macromolecules</i> , 2014, 47, 4979-4986.	4.8	55
42	Two-site silica supported Fe/Cr catalysts for tailoring bimodal polyethylenes with variable content of UHMWPE. <i>Journal of Molecular Catalysis A</i> , 2014, 383-384, 53-57.	4.8	25
43	A boronâ€“boron coupling reaction between two ethyl cation analogues. <i>Nature Chemistry</i> , 2013, 5, 1029-1034.	13.6	62
44	Combined NMR Analysis of Huge Residual Dipolar Couplings and Pseudocontact Shifts in Terbium(III)-Phthalocyaninato Single Molecule Magnets. <i>Journal of the American Chemical Society</i> , 2013, 135, 14349-14358.	13.7	57
45	Spin Density Distribution in Iron(II) and Cobalt(II) Alkyl Complexes Containing 1,3-Bis(2-pyridylimino)isoindolate Ligands. <i>Organometallics</i> , 2013, 32, 885-892.	2.3	22
46	Giant Residual Dipolar $\langle \mu \rangle$ $\langle \mu \rangle$ $\langle \mu \rangle$ H Couplings in High-Spin Organoiron Complexes: Elucidation of Their Structures in Solution by $\langle \mu \rangle$ $\langle \mu \rangle$ NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2013, 19, 1599-1606.	3.3	27
47	Bisguanidines with Biphenyl, Binaphthyl, and Bipyridyl Cores: Protonâ€“Sponge Properties and Coordination Chemistry. <i>Chemistry - A European Journal</i> , 2013, 19, 8958-8977.	3.3	23
48	Naphthyridine Cyclopentadienyl Chromium Complexes as Single-Site Catalysts for the Formation of Ultrahigh Molecular Weight Polyethylene. <i>Organometallics</i> , 2012, 31, 7368-7374.	2.3	27
49	Novel Graphene UHMWPE Nanocomposites Prepared by Polymerization Filling Using Single-Site Catalysts Supported on Functionalized Graphene Nanosheet Dispersions. <i>Macromolecules</i> , 2012, 45, 6878-6887.	4.8	85
50	Synthesis and Complexation Behavior of Indenyl and Cyclopentadienyl Ligands Functionalized with a Naphthyridine Unit. <i>Organometallics</i> , 2012, 31, 356-364.	2.3	12
51	Theoretical Evaluation of Ethylene Insertion into Chromium Alkyl Bonds of Cpâ€“Donor-Based Olefin Polymerization Catalysts. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1077-1085.	2.5	10
52	Wrapping an Organic Reducing Reagent in a Cationic Boron Complex and Its Use in the Synthesis of Polyhalide Monoanionic Networks. <i>Chemistry - A European Journal</i> , 2012, 18, 14108-14116.	3.3	38
53	Synthesis and Optical Properties of Diazaâ€“and Tetraazatetracenes. <i>Chemistry - A European Journal</i> , 2012, 18, 4627-4633.	3.3	58
54	Synthesis and characterization of 11-vertex platinaborane compounds having nido-PtB <sub>10</sub> H <sub>12</sub> and nido-Pt <sub>2</sub> B <sub>9</sub> H <sub>10</sub> skeletons. <i>Polyhedron</i> , 2012, 31, 607-613.	2.2	4

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55	Combining NMR of Dynamic and Paramagnetic Molecules: Fluxional High-Spin Nickel(II) Complexes Bearing Bisguanidine Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 1942-1955.	4.0	48
56	Bis(2-pyridylimino)isoindolato iron(ii) and cobalt(ii) complexes: Structural chemistry and paramagnetic NMR spectroscopy. <i>Dalton Transactions</i> , 2011, 40, 10406.	3.3	49
57	The Flexible Coordination Modes of Guanidine Ligands in Zn Alkyl and Halide Complexes: Chances for Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 83-90.	2.0	54
58	Paramagnetic (1,3-Diboroly)ruthenium Triple-Decker Complexes and Transformation into Diamagnetic Complexes Having Bridging 1,3-Diborafulvene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2911-2918.	2.0	5
59	Mono- and Dinuclear Ni <sup>II</sup> and Co <sup>II</sup> Complexes that Feature Chelating Guanidine Ligands: Structural Characteristics and Molecular Magnetism. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4770-4782.	2.0	36
60	Hydridoboranes as Modifiers for Single-Site Organochromium Catalysts: From Low- to Ultrahigh-Molecular-Weight Polyethylene. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8751-8754.	13.8	23
61	Mesoporous Silica Supported Multiple Single-Site Catalysts and Polyethylene Reactor Blends with Tailor-Made Trimodal and Ultra-Broad Molecular Weight Distributions. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1359-1363.	3.9	50
62	Progress in the Compilation of an Oxovanadate-Silsesquioxane Portfolio and Catalytic Activity of Organometallic Representatives in Ethylene Polymerisation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 2315-2322.	1.2	10
63	Bis(tetramethylaluminate) Complexes of Yttrium and Lanthanum Supported by a Quinoly-Substituted Cyclopentadienyl Ligand: Synthesis and Performance in Isoprene Polymerization. <i>Organometallics</i> , 2010, 29, 2588-2595.	2.3	37
64	Stabilization and Activation: New Alkyl Complexes of Zinc, Magnesium and Cationic Aluminium Featuring Chelating Bisguanidine Ligands. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4795-4808.	2.0	49
65	Fusion of a 1,3-Diboraruthenocene to Form a Slipped $\eta^4$ -Hexahydrotetraboranaphthalene Triple-Decker Complex with Two Axial C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1429-1431.	13.8	3
66	Synthesis of a Stable B <sub>2</sub> H <sub>5</sub> <sup>+</sup> Analogue by Protonation of a Double Base-Stabilized Diborane(4). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5538-5541.	13.8	71
67	New Donor-Functionalized Cp Ligands: Synthesis and Complexation Behaviour of Quinoxalyl and Benzothiadiazolyl Systems. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 1560-1567.	1.2	8
68	Organochromium complexes as catalysts for the carboalumination of unactivated terminal olefins. <i>Dalton Transactions</i> , 2009, , 4875.	3.3	12
69	Bonding and Bending in Zirconium(IV) and Hafnium(IV) Hydrazides. <i>Chemistry - A European Journal</i> , 2008, 14, 8131-8146.	3.3	38
70	Rhodium(III) and Iridium(III) Complexes with Quinoly-Functionalized Cp Ligands: Synthesis and Catalytic Hydrogenation Activity. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4230-4235.	2.0	13
71	Thermal and Catalytic Dehydrogenation of the Guanidine-Borane Adducts H <sub>3</sub> B-hppH (hppH =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Quantum Chemical Study. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 5482-5493.	2.0	33
72	The First Metal Complexes of the Proton Sponge 1,8-Bis(N,N,N <sup>+</sup> ,N <sup>+</sup> -tetramethylguanidino)naphthalene: Syntheses and Properties. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4440-4447.	2.0	41

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73	Thermal Rearrangement of 2-Bromooxazolines to 2-Bromoisocyanates. <i>Organic Letters</i> , 2008, 10, 305-308.	4.6	11
74	<sup>1</sup> H NMR Investigation of Paramagnetic Chromium(III) Olefin Polymerization Catalysts: Experimental Results, Shift Assignment and Prediction by Quantum Chemical Calculations. <i>Organometallics</i> , 2007, 26, 4402-4412.	2.3	80
75	Using a Tripod as a Chiral Chelating Ligand: Chemical Exchange Between Equivalent Molecular Structures in Palladium Catalysis with 1,1,1-Tris(oxazolyl)ethane (Trisoxâ€). <i>Chemistry - A European Journal</i> , 2007, 13, 5994-6008.	3.3	67
76	Single-Site Organochromium Catalysts: Synthesis, Characterisation by Paramagnetic NMR and Olefin Polymerisation. <i>Macromolecular Symposia</i> , 2006, 236, 38-47.	0.7	25
77	Synthesis of Aryl- and Heteroaryl-Substituted Cyclopentadienes and Indenes and their Use in Transition Metal Chemistry. <i>Current Organic Chemistry</i> , 2006, 10, 937-953.	1.6	64
78	Catalytic C-H Activation of Hydrocarbons by Rhodium(I) and Iridium(I) Complexes with Hemilabile Quinoyl-Cp Ligands. <i>Organometallics</i> , 2005, 24, 4774-4781.	2.3	34
79	An Evaluation of Ligand Properties of Neutral and Anionic Tris(imidazol-2-yl)phosphines. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 1501-1506.	1.2	14
80	Rhodium-carbonyl complexes with a quinoyl functionalized Cp-ligand: synthesis and photochemical activation. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 3024-3030.	1.8	7
81	Synthesis of Main Group and Transition Metal Complexes with the (8-Quinoyl)cyclopentadienyl Ligand and Their Application in the Polymerization of Ethylene. <i>Organometallics</i> , 2004, 23, 3832-3839.	2.3	44
82	Quinoyl-functionalised Cp-chromium polymerisation catalysts: synthesis and crystal structures of alkylation products. <i>Journal of Organometallic Chemistry</i> , 2003, 687, 125-130.	1.8	28
83	Novel Reactivity of Ferrocene Derivatives toward Lewis Acids: Decomplexation with Boron Trichloride and Synthesis of a Triple-Decker-like Iron-Zinc Complex. <i>Organometallics</i> , 2002, 21, 3856-3859.	2.3	10
84	Novel Heterobimetallic Compounds with Metal-Metal Bonds: The Use of Quinoyl-Substituted Metallocenes as Tridentate Ligands. <i>Organometallics</i> , 2002, 21, 1111-1117.	2.3	25
85	Olefin-Metal Interactions of Mercury and Zinc Ions in Complexes of Neutral Quinoylcyclopentadiene Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 539-542.	2.0	12
86	Coordination chemistry of neutral quinoyl- and aminophenylcyclopentadiene derivatives. <i>Journal of Organometallic Chemistry</i> , 2002, 641, 81-89.	1.8	15
87	Nitrogen-Functionalized Cyclopentadienyl Ligands with a Rigid Framework: Complexation Behavior and Properties of Cobalt(I), -(II), and -(III) Half-Sandwich Complexes. <i>Organometallics</i> , 2001, 20, 827-833.	2.3	49
88	New Chromium(III) Complexes as Highly Active Catalysts for Olefin Polymerization. <i>Organometallics</i> , 2001, 20, 5005-5007.	2.3	100
89	Synthesis and coordination behaviour of the new (8-quinoyl)cyclopentadienyl ligand. <i>Journal of Organometallic Chemistry</i> , 2001, 622, 66-73.	1.8	46
90	Synthesis, Structure, and Reactivity of Metal Complexes with Alkoxydimethyl Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001, 627, 2281.	1.2	11

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91	Quinolylcyclopentadienylthallium: A Donor-Stabilized Thallium(I) Compound. European Journal of Inorganic Chemistry, 2000, 2000, 1923-1925.	2.0	12
92	8-quinolylcyclopentadienyl, a ligand with a tailored fit for chelate complexes. Chemische Berichte, 1996, 129, 459-463.	0.2	45
93	New Stable Titanocene and Zirconocene Catalyst Precursors for Polysilane Synthesis via Dehydrocoupling of Hydrosilanes. Organometallics, 1995, 14, 564-566.	2.3	48
94	Ceramics from Molecular Precursors Transition Metal Activation of Silicon-Carbide Precursors. , 1995, , 185-199.		4
95	One-step route to silicon carbide precursors by a tunable catalytic polycondensation. Chemistry of Materials, 1994, 6, 15-17.	6.7	40
96	Neue Wege zu Bis[(cyclopentadienyl)cobalt] <sup>2+</sup> ·(1,3-dihydro-1,3-diborolyl)-Tripeldeckerkomplexen über Wasserstoffverschiebungsreaktionen in Derivaten des 4,5-Diisopropyliden-1,3-diborolans, des 2,4,5-Triisopropyliden-1,3-diborolans und des Benzo-1,3-diborafulvens. Chemische Berichte, 1993, 126, 2197-2203.	0.2	23
97	Hydrocobaltierung von 1,3-Dihydro-1,3-diborafulven-Derivaten HCo(CO) <sub>4</sub> /Hydrocobaltation of 1,3 - Dihydro - 1,3 - diborafulvene Derivatives with HCo(CO) <sub>4</sub> . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1992, 47, 35-38.	0.7	3
98	Diallenylborane als Edukte für Borheterocyclen. Chemische Berichte, 1992, 125, 1981-1985.	0.2	25
99	Formation of a 2,5-Diborabicyclo[2.1.1]hexane Derivative and Its Conversion to a Tetracarbahexaborane. Angewandte Chemie International Edition in English, 1992, 31, 606-607.	4.4	20
100	Synthesis, Structure, and Rearrangement of 1,3-Dibora[5]radialenes. Angewandte Chemie International Edition in English, 1991, 30, 84-85.	4.4	15
101	Komplexierung von 1,3-Dihydro-1,3-diborapentafulven-Derivaten mit Fe(CO) <sub>3</sub> -Fragmenten: Synthesen, Kristall- und Elektronenstruktur von (1,3-Dihydro-1,3-diborapentafulven) <sub>2</sub> bis(tricarbonylisen)Komplexen. Chemische Berichte. 1991, 124, 1505-1509.	0.2	15