

Hansgeorg SchnÄ¶ckel

List of Publications by Year in descending order

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100
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61984

43
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85541

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126
all docs

126
docs citations

126
times ranked

1511
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnesium(I) Halide versus Magnesium Metal: Differences in Reaction Energy and Reactivity Monitored in Reduction Processes of P ⁺ Cl Bonds. <i>Angewandte Chemie</i> , 2019, 131, 726-731.	2.0	3
2	Frontispiz: Magnesium(I) Halide versus Magnesium Metal: Differences in Reaction Energy and Reactivity Monitored in Reduction Processes of P ⁺ Cl Bonds. <i>Angewandte Chemie</i> , 2019, 131, .	2.0	0
3	Magnesium(I) Halide versus Magnesium Metal: Differences in Reaction Energy and Reactivity Monitored in Reduction Processes of P ⁺ Cl Bonds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 716-721.	13.8	9
4	Frontispiece: Magnesium(I) Halide versus Magnesium Metal: Differences in Reaction Energy and Reactivity Monitored in Reduction Processes of P ⁺ Cl Bonds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	13.8	0
5	Realization of an Al ₃ Al Triple Bond in the Gas-Phase Na ₃ Al ₂ Cluster via Double Electronic Transmutation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14060-14064.	13.8	29
6	Low oxidation state aluminum-containing cluster anions: Cp ⁻ —AlnH ⁻ , n = 1–3. <i>Journal of Chemical Physics</i> , 2016, 145, 074305.	3.0	5
7	Synthesis, Structure, and Properties of Al ₃ (R) ₃ Complexes (R = <i>i</i> -t-Bu). <i>J. Chem. Phys.</i> 140, 074305 (2014). DOI: 10.1063/1.2361414	4.0	14
8	Synthesis, structure, and properties of a dialumane supported by pyrazolate ligands. <i>Dalton Transactions</i> , 2015, 44, 2956-2958.	3.3	4
9	The Influence of a Single Transition Metal Atom on the Reactivity of Main Group Metal Clusters in the Gas Phase. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 2701-2707.	1.2	13
10	Aluminum Zintl anion moieties within sodium aluminum clusters. <i>Journal of Chemical Physics</i> , 2014, 140, 054301.	3.0	37
11	The Reaction Rates of O ₂ with Closed-Shell and Open-Shell Al _x and Ga _x Clusters under Single-Collision Conditions: Experimental and Theoretical Investigations toward a Generally Valid Model for the Hindered Reactions of O ₂ with Metal Atom Clusters. <i>Journal of the American Chemical Society</i> , 2014, 136, 3607-3616.	13.7	37
12	Nanoscale Molecular Silver Cluster Compounds in Gram Quantities. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3064-3066.	13.8	20
13	K[Al ₄ (PPh ₂) ₇ PPh]: An Al ^{II} Phosphanide / Phosphinidene Intermediate on the Path to AlP Formation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 2558-2560.	1.2	6
14	Hunting for the Magnesium(I) Species: Formation, Structure, and Reactivity of some Donor-Free Grignard Compounds. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9025-9029.	13.8	30
15	A Chemical View of the Giant Au ₁₀₂ (SR) ₄₄ (SR = P-Mercaptobenzoic Acid) Cluster: Metalloid Aluminum and Gallium Clusters as Path Making Examples of This Novel Type Open Our Eyes for Structure and Bonding of Metalloid Aun(SR) _m (n > m) Clusters. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 15-23.	1.2	27
16	A Convenient Synthesis of Cyclopentadienylgallium - The Awakening of a Sleeping Beauty in Organometallic Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, n/a-n/a.	2.0	24
17	Al ₁₂ K ₈ [OC(CH ₃) ₃] ₁₈ : A Wade, Zintl, or Metalloid Cluster, or a Hybrid of All Three?. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3146-3150.	13.8	15
18	Ga ₈ Br ₈ ·6NEt ₃ : Formation and Structure of Donor-Stabilized GaBr. A Nanoscaled Step on the Way to ⁺ Gallium?. <i>Journal of the American Chemical Society</i> , 2010, 132, 1323-1327.	13.7	7

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19	Structures and Properties of Metalloid Al and Ga Clusters Open Our Eyes to the Diversity and Complexity of Fundamental Chemical and Physical Processes during Formation and Dissolution of Metals. <i>Chemical Reviews</i> , 2010, 110, 4125-4163.	47.7	182
20	On the kinetics of the $Al_{13}^{+} + Cl_2$ reaction: Cluster degradation in consecutive steps. <i>Journal of Chemical Physics</i> , 2009, 131, 174304.	3.0	7
21	Metastable Aluminum(I) Compounds: Experimental and Quantum Chemical Investigations on Aluminum(I) Phosphanides – An Alternative Channel to the Disproportionation Reaction?. <i>Chemistry - A European Journal</i> , 2009, 15, 13391-13398.	3.3	17
22	Experimentally Based DFT Calculations on the Hindered Disproportionation of $[Al_4Cp^*_4]$: Formation of Metalloid Clusters as Intermediates on the Way to Solid Al Prevents the Decomposition of a Textbook Molecule. <i>Chemistry - A European Journal</i> , 2009, 15, 12180-12183.	3.3	23
23	Snapshots of the Al_2-Al Bond Formation Starting from $\{AlR_2\}_2$ Units: Experimental and Computational Observations. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8141-8145.	13.8	81
24	Inside Cover: Snapshots of the Al_2-Al Bond Formation Starting from $\{AlR_2\}_2$ Units: Experimental and Computational Observations (<i>Angew. Chem. Int. Ed.</i> 43/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7942-7942.	13.8	1
25	$Si@Al_{14}(N(Dipp)SiMe_3)_6$: A Si-Centered Metalloid Aluminum Cluster and the Reinvestigation of $Si@Al_{14}Cp^*_6$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 423-430.	1.2	13
26	$Al_4(PtBu_2)_6$ – a Derivative of Al_4H_6 and Other Al_4 Species: A Challenge for Bonding Interpretation between Zintl Ions and Metalloid Clusters. <i>Journal of the American Chemical Society</i> , 2009, 131, 5698-5704.	13.7	29
27	Isomeric Al_2R_4 , Mg_2R_2 Species and Oligomerisation Products: Investigation of $Al-Al$ and $Mg-Mg$ Bonding. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4879-4890.	2.0	28
28	$Si@Al_{56}[N(2,6-iPr_2C_6H_3)SiMe_3]_{12}$: The Largest Neutral Metalloid Aluminum Cluster, a Molecular Model for a Silicon-Poor Aluminum-Silicon Alloy?. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8201-8206.	13.8	27
29	$MgCl$ and Mg_2Cl_2 : From Theoretical and Thermodynamic Considerations to Spectroscopy and Chemistry of Species with $Mg-Mg$ Bonds. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8740-8744.	13.8	59
30	$Al_4(C_5Me_4H)_4$: Structure, reactivity and bonding. <i>Inorganica Chimica Acta</i> , 2008, 361, 457-461.	2.4	36
31	Ein molekulares Korrosionsmodell für Metalle?. <i>Nachrichten Aus Der Chemie</i> , 2008, 56, 999-1004.	0.0	6
32	Formation, structure and bonding of metalloid Al and Ga clusters. A challenge for chemical efforts in nanosciences. <i>Dalton Transactions</i> , 2008, , 4344.	3.3	88
33	Monitoring the dissolution process of metals in the gas phase: reactions of nanoscale Al and Ga metal atom clusters and their relationship to similar metalloid clusters. <i>Chemical Communications</i> , 2008, , 2075.	4.1	40
34	A Metalloid $[Ga_{23}\{N(SiMe_3)_2\}_{11}]$ Cluster: The Jellium Model Put to Test. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1658-1662.	13.8	59
35	$[Al(Al_3R_3)_2]$: Prototype of a Metalloid Al Cluster or a Sandwich-Stabilized Al Atom?. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3579-3583.	13.8	22
36	From Icosahedral Boron Subhalides to Octahedral Metalloid Aluminum and Gallium Analogues: Quo vadis, Wade's Rules?. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5795-5798.	13.8	25

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37	Ga ₂₄ Br ₁₈ Se ₂ : A Highly Symmetrical Metalloid Cluster and Its One-Dimensional Arrangement in the Crystalline State as a Model for the Photoconductivity of Solid GaSe. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6549-6552.	13.8	14
38	Modellbetrachtungen zum Verständnis unerwarteter Eigenschaften der metalloiden Clusterverbindung [Ga ₈₄ (N(SiMe ₃) ₂) ₂₀][Li ₆ Br ₂ (THF) ₂₀]·2Toluol. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 63-76.	1.2	25
39	The Anion [Mg ₆ Cl ₈ Cp* ₅]-: A Final Intermediate on the Way to the Molecular Donor-Free Grignard Compound MgClCp*?. <i>Organometallics</i> , 2006, 25, 2101-2103.	2.3	12
40	The Stepwise Fragmentation and Modification of a Structurally well-defined Metalloid Cluster in the Gas-Phase from [Ge ₉ R ₃] ⁺ (R = Si(SiMe ₃) ₃) to [Ge ₉] ⁺ and [Ge ₉ Si] ⁺ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 1710-1716.	1.2	30
41	A Second Metalloid Ga ₁₈ Cluster and Its Topological Similarity to the High-Pressure Ga-II Modification. <i>Chemistry - A European Journal</i> , 2006, 12, 5429-5433.	3.3	17
42	The Chlorination of the [Al ₁₃] ⁺ Cluster and the Stepwise Formation of Its Intermediate Products, [Al ₁₁] ⁺ , [Al ₉] ⁺ , and [Al ₇] ⁺ : A Model Reaction for the Oxidation of Metals?. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1476-1479.	13.8	36
43	Clusters of the Heavier Group 13 Elements. , 2005, , 126-168.		31
44	Ga ₁₀ Br ₁₀ (4-tert-Butylpyridine) ₁₀ : A Mixed-Valent Gallium(I) Subhalide as an Intermediate during the Formation of Elemental Gallium?. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2973-2975.	13.8	18
45	The Molecules AlO ₂ , Al(O ₂) ₂ , and Al(O ₂) ₃ : Experimental and Quantum-Chemical Investigations on the Oxidation of Aluminum Atoms. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4261-4264.	13.8	27
46	Al ₂₀ X ₁₀ (X=Cl, Br): Snapshots of the Formation of Metalloid Clusters from Polyhedral Al _n X _m Molecules?. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6956-6960.	13.8	42
47	[Ga ₅₁ (PtBu ₂) ₁₄ Br ₆] ₃ ⁺ : An Elementoid Gallium Cluster with Metalloid and Nonmetalloid Structural Elements. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 302-305.	13.8	32
48	Al ₅₀ C ₁₂₀ H ₁₈₀ : A Pseudofullerene Shell of 60 Carbon Atoms and 60 Methyl Groups Protecting a Cluster Core of 50 Aluminum Atoms. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3186-3189.	13.8	112
49	The Polyhedral Gallium Subhalide [Ga ₂₄ Br ₂₂] _n ·10THF: The First Step on the Path to a New Modification of Gallium?. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3190-3192.	13.8	38
50	[Ga ₂₂ (PtBu ₂) ₁₂]: Diversity in the Arrangement of 22 Gallium Atoms-A Unique Case in the Field of Metalloid Clusters?. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6549-6552.	13.8	21
51	Two Metalloid Ga ₂₂ Clusters Containing a Novel Ga ₂₂ Core with an Icosahedral Ga ₁₂ Center. <i>Chemistry - A European Journal</i> , 2004, 10, 1977-1981.	3.3	28
52	[Ga ₁₆ (PtBu ₂) ₁₀]: ein mit Galliumphosphid ummantelter Kern aus vier nackten Ga-Atomen?. <i>Angewandte Chemie</i> , 2003, 115, 2016-2019.	2.0	12
53	[Ga ₁₆ (PtBu ₂) ₁₀]: A Gallium Phosphide Sheathed Core of Four Naked Ga Atoms?. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1971-1974.	13.8	24
54	Title is missing!. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003, 629, 1175-1183.	1.2	30

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55	Preparation and Precise Structural Determination of a Second Ga ₈ Cluster Compound. A First Hint for Cluster Doping and Its Fundamental Consequences in the Field of Chemistry and Physics of Nanoscaled Metalloid Cluster Material. <i>Inorganic Chemistry</i> , 2003, 42, 7731-7733.	4.0	48
56	Matrix Reactivity of AlF and AlCl in the Presence of HCl and HBr: Generation and Characterization of the New Al(III) Hydrides HAlFCl, HAlFBr, and HAlClBr and the Monomeric Mixed Al(III) Halides AlX ₂ Y (X, Y = F, Cl, Br). <i>Journal of Organometallic Chemistry</i> , 2003, 672, 1-10.	4.0	10
57	Nanostructural Element Modifications: Synthesis and Structure of Elementoid Gallium Clusters. <i>ACS Symposium Series</i> , 2002, , 154-167.	0.5	21
58	[Ga ₆ R ₈]2- (R = SiPh ₂ Me): Eine metalloide Clusterverbindung mit einem unerwarteten Ga ₆ -Gerüst. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 157-161.	1.2	23
59	Metalloide Aluminium- und Galliumcluster: Elementmodifikationen im molekularen Maßstab?. <i>Angewandte Chemie</i> , 2002, 114, 3682-3704.	2.0	169
60	[Ga ₂₂ {N(SiMe ₃) ₂ } ₁₀] ₂ : A Metalloid Cluster Compound with a Variation of the Ga ₂₂ Framework This work was supported by the Deutsche Forschungsgemeinschaft and the Fonds der Chemische Industrie.. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1882.	13.8	27
61	Metalloid Aluminum and Gallium Clusters: Element Modifications on the Molecular Scale?. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3532-3554.	13.8	270
62	Disodium Tetrasupersilyltetragallanediide Na ₂ Ga ₄ R* ₄ ·2THF (R* = Si ^t Bu ₃) Preparation of a Novel Gallium Cluster Compound via Dichlorodisupersilyldigallane R* ₂ Ga ₂ Cl ₂ . <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 351-356.	2.0	43
63	Ga ₁₉ (C(SiMe ₃) ₃) ₆ as a precursor for pure and silicon-doped gallium clusters: a mass spectrometric study of a Ga ₁₃ and a Ga ₁₂ Si anion. <i>International Journal of Mass Spectrometry</i> , 2002, 214, 383-395.	1.5	30
64	Synthesis and structure of metalloid aluminum clusters intermediates on the way to the elements. <i>Polyhedron</i> , 2002, 21, 489-501.	2.2	48
65	Al ₂₂ Cl ₂₀ ·12L (L = THF, THP): The First Polyhedral Aluminum Chlorides. <i>Journal of the American Chemical Society</i> , 2001, 123, 9099-9106.	13.7	65
66	[Ga ₁₈ (Si ^t Bu ₃) ₈] and [Ga ₂₂ (Si ^t Bu ₃) ₈] Syntheses and Structural Characterization of Novel Gallium Cluster Compounds. <i>Chemistry - A European Journal</i> , 2001, 7, 3348-3353.	3.3	38
67	Synthesis and Structure of a Ga ₈₄ R ₂₀₄ Cluster-A Link between Metalloid Clusters and Fullerenes?. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 711-715.	13.8	73
68	A Ga ₈ R ₆ Cluster as an Ideal Model for a Metal-Metal Bond?. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1241-1243.	13.8	31
69	The First Detection of Peroxo and Bis-superoxo Complexes of Aluminum: FAIO ₂ and FAIO ₄ . <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4696-4700.	13.8	26
70	From AlX/GaX monohalide molecules to metalloid aluminum and gallium clusters. <i>Advances in Organometallic Chemistry</i> , 2001, 47, 235-281.	1.0	75
71	Ga-Ga- und Al-Fe-Mehrfachbindungen? Ein Interpretationsversuch auf der Grundlage von Kraftkonstanten. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2000, 626, 1095-1099.	1.2	42
72	A Metalloid Al ₁₄ Cluster with the Structure of a Nano-Wheel. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 799-801.	13.8	35

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73	Al ₅ Br ₇ ·5THF: The First Saltlike Aluminum Subhalide. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3691-3694.	13.8	32
74	Synthesis and Structure of a Neutral SiAl ₁₄ Cluster. <i>Journal of the American Chemical Society</i> , 2000, 122, 6955-6959.	13.7	70
75	Al ₂₂ Br ₂₀ ·12 THF: The First Polyhedral Aluminum Subhalide—A Step on the Path to a New Modification of Aluminum?. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1739-1743.	13.8	49
76	[Al ₇ {N(SiMe ₃) ₂ }] ⁺ : A First Step towards Aluminum Metal Formation by Disproportionation. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2926-2928.	13.8	96
77	Ga ₂₂ [Si(SiMe ₃) ₃] ₈ : The Largest Atom-Centered Neutral Main Group Metal Cluster. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3381-3383.	13.8	60
78	An Al ₁₂ R ₈ ⁺ cluster as an intermediate on the way from aluminium(I) compounds to aluminium metal. <i>Chemical Communications</i> , 1999, , 1933-1934.	4.1	60
79	Synthesis, Structure, and Bonding of a Polyhedral Al ₂ Co ₂ Cluster. <i>Organometallics</i> , 1998, 17, 2373-2375.	2.3	50
80	Molecular Structure of Fluorenyllithium. <i>Organometallics</i> , 1998, 17, 3512-3515.	2.3	47
81	Hexameric Aggregates in Crystalline (Pentamethylcyclopentadienyl)gallium(I) at 200 K. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 860-862.	4.4	112
82	Synthesis, Structure, and Oxidation of Donor-Stabilized Gallium(I) Iodide: Ga ₈ I ₈ ·6PEt ₃ . <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1969-1971.	4.4	47
83	Pentabenzylcyclopentadienides of Lithium. <i>Organometallics</i> , 1996, 15, 4702-4706.	2.3	54
84	Aluminium- und Gallium-Verbindungen: Synthesen, Strukturen und Reaktionen. <i>Angewandte Chemie</i> , 1996, 108, 141-161.	2.0	188
85	Aluminum(I) and Gallium(I) Compounds: Syntheses, Structures, and Reactions. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 129-149.	4.4	331
86	Donorstabilisiertes Aluminium(I)-iodid. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1996, 622, 149-152.	1.2	45
87	[(CpNi) ₂ (Cp*Al) ₂]: Cp*Al as a Bridging Two-Electron Ligand. <i>Angewandte Chemie International Edition in English</i> , 1995, 33, 2482-2483.	4.4	51
88	[P ₄ (Cp*Al) ₆]: A Compound with an Unusual P ₄ Al ₆ Cage Structure. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 199-200.	4.4	82
89	Donor-Stabilized Aluminum(II) Bromide. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 862-863.	4.4	56
90	Donor-Stabilized Aluminum(I) Bromide. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1754-1755.	4.4	59

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91	Donorstabilisiertes Aluminium(II)-bromid. <i>Angewandte Chemie</i> , 1994, 106, 946-948.	2.0	23
92	Donorstabilisiertes Aluminium(η^5)-bromid. <i>Angewandte Chemie</i> , 1994, 106, 1860-1861.	2.0	44
93	$[(CpNi)_2(Cp^*Al)_2]$: Cp*Al als verbrückender Zweielektronenligand. <i>Angewandte Chemie</i> , 1994, 106, 2570-2571.	2.0	40
94	The Molecular Structure of Pentamethylcyclopentadienylgallium, Ga(η^5 -C ₅ Me ₅), by Gas-Phase Electron Diffraction. The First Monomeric Organogallium(I) Compound. <i>Acta Chemica Scandinavica</i> , 1994, 48, 172-174.	0.7	70
95	$[(Et_2O)_2ClGa]_3GaCl_2(Et_2O)_3$: A Molecular Compound with a Tetrahedral Ga ₅ unit. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1059-1060.	4.4	56
96	(Cyclopentadienyl)-Gallium(I)-Verbindungen. <i>Journal of Organometallic Chemistry</i> , 1993, 463, 37-40.	1.8	85
97	$[Ga(C_5H_5)]$: Synthesis, Identification, and Ab Initio Investigations. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1362-1364.	4.4	63
98	$[Ga(C_5H_5)_2]$: Synthese, Identifizierung und ab initio Untersuchungen. <i>Angewandte Chemie</i> , 1992, 104, 1376-1378.	2.0	41
99	The Tetrameric Aluminum(I) Compound $[Al(\eta^5-C_5Me_5)]_4$. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 564-565.	4.4	357
100	Die tetramere Aluminium(η^5)-Verbindung $[Al(\eta^5-C_5Me_5)]_4$. <i>Angewandte Chemie</i> , 1991, 103, 594-595.	2.0	231