

Rudolf J Wehmschulte

List of Publications by Year in descending order

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68

papers

2,826

citations

126907

33

h-index

175258

52

g-index

72

all docs

72

docs citations

72

times ranked

1844

citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc Ammonio-dodecaborates: Synthesis, Lewis Acid Strength, and Reactivity. <i>Inorganic Chemistry</i> , 2022, 61, 7032-7042.	4.0	6
2	Towards Naked Zinc(II) in the Condensed Phase: A Highly Lewis Acidic Zn^{II} Dication Stabilized by Weakly Coordinating Carborate Anions. <i>Angewandte Chemie</i> , 2021, 133, 2112-2116.	2.0	4
3	Towards Naked Zinc(II) in the Condensed Phase: A Highly Lewis Acidic Zn^{II} Dication Stabilized by Weakly Coordinating Carborate Anions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2084-2088.	13.8	16
4	Convenient Access to Gallium(I) Cations through Hydrogen Elimination from Cationic Gallium(III) Hydrides. <i>Inorganic Chemistry</i> , 2019, 58, 12441-12445.	4.0	26
5	Recent Developments on the Use of Group 13 Metal Complexes in Catalysis. <i>ChemCatChem</i> , 2018, 10, 2509-2520.	3.7	94
6	Alkylaluminum, -gallium, -magnesium, and -zinc monophenolates with bulky substituents. <i>Zeitschrift Für Naturforschung - Section B Journal of Chemical Sciences</i> , 2018, 73, 943-951.	0.7	2
7	Catalytic Reduction of Carbon Dioxide Using Cationic Organoaluminum and -Gallium Compounds. <i>Organometallics</i> , 2017, 36, 4810-4815.	2.3	38
8	Chlorination of 1-Carba-closo-dodecaborate and 1-Ammonio-closo-dodecaborate Anions. <i>Inorganic Chemistry</i> , 2016, 55, 10617-10627.	4.0	33
9	Lewis base adducts of diisobutylaluminum azide: synthesis and thermal stability. <i>Journal of Coordination Chemistry</i> , 2015, 68, 2470-2479.	2.2	0
10	Synthesis and Reactivity of Indium(I) 1-Carba-closo-undecachlorododecaborate. <i>Inorganic Chemistry</i> , 2015, 54, 9195-9200.	4.0	13
11	Synthesis and Structure of the First Bridgehead Silylium Ion. <i>Organometallics</i> , 2014, 33, 2146-2149.	2.3	11
12	A Direct Stereoselective Preparation of a Fish Pheromone and Application of the Zinc Porphyrin Tweezer Chiroptical Protocol in Its Stereochemical Assignment. <i>Chirality</i> , 2013, 25, 575-581.	2.6	5
13	CO_2 Activation with Bulky Neutral and Cationic Phenoxyalanes. <i>Organometallics</i> , 2013, 32, 6812-6819.	2.3	73
14	Cationic organoaluminum compounds as intramolecular hydroamination catalysts. <i>Journal of Organometallic Chemistry</i> , 2012, 696, 4179-4183.	1.8	36
15	Low Valent Organoaluminum (+I, +II) Species. <i>Topics in Organometallic Chemistry</i> , 2012, , 91-124.	0.7	11
16	Deoxygenative Reduction of Carbon Dioxide to Methane, Toluene, and Diphenylmethane with $[Et_2Al]^+$ as Catalyst. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7323-7326.	13.8	167
17	Synthesis and Characterization of Bulky Cationic Arylalkylaluminum Compounds. <i>Organometallics</i> , 2011, 30, 2563-2570.	2.3	35
18	Cationic Ethylzinc Compound: A Benzene Complex with Catalytic Activity in Hydroamination and Hydrosilylation Reactions. <i>Inorganic Chemistry</i> , 2011, 50, 11300-11302.	4.0	55

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19	Low-Coordinate Aluminum Amides from Silylanilines and Alkylalanes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 521-526.	2.0	5
20	At Last: A Stable Univalent Gallium Cation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4708-4709.	13.8	12
21	m-Terphenylphosphines: Synthesis, structures and coordination properties. <i>Inorganica Chimica Acta</i> , 2009, 362, 3465-3474.	2.4	24
22	Synthesis of aryloxyaluminium hydrides and their conversion into aryloxyalumoxanes (ArOAlO) _n . <i>Dalton Transactions</i> , 2009, , 9322.	3.3	8
23	Size Matters: Room Temperature P-C Bond Formation Through C-H Activation in m-Terphenyldiiodophosphines. <i>Inorganic Chemistry</i> , 2008, 47, 2858-2863.	4.0	18
24	Facile Synthesis of Monoazidotitanium Isopropoxides. <i>Inorganic Chemistry</i> , 2008, 47, 10804-10806.	4.0	7
25	m-Terphenylaluminum and -gallium Compounds: Synthesis and Conversion into Low-Coordinate Organogallium Cations. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1671-1681.	2.0	36
26	Aluminumoxyhydride: A Improved Synthesis and Application as a Selective Reducing Agent. <i>Inorganic Chemistry</i> , 2006, 45, 8807-8811.	4.0	7
27	Facile Synthesis of Unsymmetrical 9-Phospha- and 9-Arsafluorenes. <i>Inorganic Chemistry</i> , 2006, 45, 5568-5575.	4.0	42
28	Room temperature synthesis of silver nanowires from tabular silver bromide crystals in the presence of gelatin. <i>Journal of Solid State Chemistry</i> , 2006, 179, 696-701.	2.9	18
29	A novel hybrid of carbon nanotubes/iron nanoparticles: iron-filled nodule-containing carbon nanotubes. <i>Carbon</i> , 2005, 43, 1550-1555.	10.3	42
30	Synthesis and Characterization of an Almost Linear, Quasi-Two-Coordinate, Cationic Diorganoaluminum Compound. <i>Organometallics</i> , 2004, 23, 1965-1967.	2.3	47
31	Synthesis and Characterization of Amorphous Nanostructured HAIO, a Novel Aluminumoxyhydride.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
32	[2,6-Mes ₂ C ₆ H ₃] ₂ Ga+Li[Al{OCH(CF ₃) ₂] ₄] ₂ - (Mes = 2,4,6-Me ₃ C ₆ H ₂): A Compound Containing a Linear Unsolvated Two-Coordinate Gallium Cation. <i>Journal of the American Chemical Society</i> , 2003, 125, 1470-1471.	13.7	57
33	Diterphenylgallium Alkyls and Hydride: Synthesis, Characterization, and Reactivity. <i>Organometallics</i> , 2003, 22, 4678-4684.	2.3	28
34	Synthesis and Characterization of Amorphous Nanostructured HAIO, a Novel Aluminumoxyhydride. <i>Chemistry of Materials</i> , 2003, 15, 2803-2808.	6.7	23
35	Unsymmetrical 9-Borafluorenes via Low-Temperature C-H Activation of m-Terphenylboranes. <i>Organometallics</i> , 2003, 22, 83-92.	2.3	52
36	Synthesis of novel nanostructured ¹³ Al ₂ O ₃ by pyrolysis of aluminiumoxyhydride HAIO. <i>Journal of Materials Chemistry</i> , 2003, 13, 3107-3111.	6.7	18

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37	Large Thick Flattened Carbon Nanotubes. Nano Letters, 2002, 2, 1439-1442.	9.1	58
38	Synthesis and Reactivity of Amidoaluminum Hydride Compounds as Potential Precursors to AlN. Journal of Cluster Science, 2002, 13, 503-520.	3.3	11
39	Synthesis and Characterization of a Sterically Encumbered Unsymmetrical 9-Borafluorene, Its Pyridine Adduct, and Its Dilithium Salt. Organometallics, 2001, 20, 844-849.	2.3	50
40	Reaction of <i>m</i> -Terphenyldichlorophosphanes with Sodium Azide: Synthesis and Characterization of Stable Azidocyclophosphazenes. Inorganic Chemistry, 2001, 40, 2756-2762.	4.0	30
41	Synthesis and Characterization of an Unsolvated Dimeric Diarylmagnesium Compound and Its Magnesium Iodide Byproducts. Inorganic Chemistry, 2001, 40, 6004-6008.	4.0	28
42	Novel Aluminum Hydride Derivatives from the Reaction of H ₃ Al-NMe ₃ with the Cyclosilazanes [Me ₂ SiNH] ₃ and [Me ₂ SiNH] ₄ . Inorganic Chemistry, 2001, 40, 1316-1322.	4.0	25
43	Primary alanes and alanates: useful synthetic reagents in aluminum chemistry. Polyhedron, 2000, 19, 1649-1661.	2.2	48
44	Reaction of cyclopentadienyl zirconium derivatives with sterically encumbered arylaluminum hydrides: X-ray crystal structure of (1-5-C ₅ H ₅) ₂ (H)Zr(1-4-2-H) ₂ Al(H)C ₆ H ₂ -2,4,6-But ₃ . Polyhedron, 1999, 18, 1885-1888.	2.2	19
45	Multiple Ga ^{δ+} -Ga Bonding Character in Na ₂ [Ga(GaTrip ₂) ₃], and a Comparison with Neutral Ga(GaTrip ₂) ₃ (Trip=2,4,6- <i>i</i> Pr ₃ C ₆ H ₂). Angewandte Chemie - International Edition, 1998, 37, 3152-3154.	13.8	26
46	Interaction of the bulky alane (H ₂ AlC ₆ H ₃ -2,6-Mes ₂) ₂ (Mes = $\text{C}_6\text{H}_3\text{-2,4,6-Me}_3$) with H ₂ EPh (E=N, P or As). New Journal of Chemistry, 1998, 22, 1125-1130.	2.8	13
47	New route to organoaluminium sulfides: synthesis of (Mes*AlS) ₂ (Mes* = -C ₆ H ₂ But ₃ -2,4,6) and its dimethyl sulfoxide adduct [Mes*AlS(OSMe ₂)] ₂ . Chemical Communications, 1998, , 335-336.	4.1	27
48	Reaction of the Primary Alane (2,4,6- <i>t</i> -Bu ₃ H ₂ C ₆ AlH ₂) ₂ with Nitriles, Isonitriles, and Primary Amines. Inorganic Chemistry, 1998, 37, 6906-6911.	4.0	40
49	Monomeric Alanes: Synthesis, Structure, and Thermolysis of Mes*Al(H)N(SiMe ₃) ₂ and a One-Pot Synthetic Route to Mes* ₂ AlH (Mes* = $\text{C}_6\text{H}_2\text{-2,4,6-}t\text{-Bu}_3$). Inorganic Chemistry, 1998, 37, 2106-2109.	4.0	19
50	A New Synthetic Route to Organoalumoxanes (RAlO) _n : Synthesis of (Mes*AlO) ₄ (Mes* = $\text{C}_6\text{H}_2\text{-2,4,6-}t\text{-Bu}_3$). Journal of the American Chemical Society, 1997, 119, 8387-8388.	13.7	78
51	Synthesis and Characterization of Lewis Base-Free, σ -Bonded Lithium Aryls: A Structural Model for Unsolvated Phenyllithium in the Solid State. Journal of the American Chemical Society, 1997, 119, 2847-2852.	13.7	46
52	Low-Temperature Synthesis of Aluminum Sulfide as the Solvate Al ₄ S ₆ (NMe ₃) ₄ in Hydrocarbon Solution. Journal of the American Chemical Society, 1997, 119, 9566-9567.	13.7	39
53	Synthesis and Structure of Mes*AlN(Ph)Al(Mes*)N(Ph)NPh: A Formal Aluminum-Nitrogen Analog of the Cyclopentadienide Ion. Inorganic Chemistry, 1996, 35, 2717-2718.	4.0	30
54	Reactions of (H ₂ AlMes*) ₂ (Mes* = 2,4,6- <i>t</i> -Bu ₃ C ₆ H ₂) with H ₂ EAr (E = N, P, or As; Ar = aryl): Characterization of the Ring Compounds (Mes*AlNPh) ₂ and (Mes*AlEPh) ₃ (E = P or As). Journal of the American Chemical Society, 1996, 118, 791-797.	13.7	109

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55	Synthesis and Characterization of Sterically Encumbered Derivatives of Aluminum Hydrides and Halides: A Assessment of Steric Properties of Bulky Terphenyl Ligands. Inorganic Chemistry, 1996, 35, 6694-6702.	4.0	84
56	New Routes to Synthetically Useful, Sterically Encumbered Arylaluminum Halides and Hydride Halides. Inorganic Chemistry, 1996, 35, 3262-3267.	4.0	35
57	Synthesis and Structure of Unassociated Mono-, Di- and Trithiolate Derivatives of Aluminum and Gallium: Investigation of Al-S and Ga-S π -Bonding. Inorganic Chemistry, 1995, 34, 2593-2599.	4.0	39
58	Synthesis and Characterization of the σ -Bonded, Quasi-Linear, Metal(II) Diaryls MMe_2 ($M = Mg, Zn$) $Tj ETQq0 0 0 rgBT /Overlock 10 T$	2.3	102
59	New Base-Free Alanes and Gallanes: Synthesis and Characterization of Monomeric Mes^*_2GaH ($Mes^* = i\text{-}Pr$) $Tj ETQq1 1 0.784314 rgBT /Over$ Crowded Arylaluminum Species. Inorganic Chemistry, 1994, 33, 6300-6306.	4.0	68
60	Evidence for π bonding in the boron π -thiolate compounds $(2,4,6\text{-}Me_3C_6H_2)_2B(SPh)$ and $(2,4,6\text{-}Pri_3C_6H_2)_2B(SPh)_2$. Journal of the Chemical Society Dalton Transactions, 1994, , 2113-2117.	1.1	10
61	Synthesis and Characterization of Unassociated Aluminum Monophosphides. Inorganic Chemistry, 1994, 33, 3205-3207.	4.0	28
62	Synthesis, Structure, and Spectroscopic Characterization of Unassociated Mono-, Di and Triamido Derivatives of Aluminum and Gallium. [Erratum to document cited in CA121:83423]. Organometallics, 1994, 13, 3374-3374.	2.3	3
63	Synthesis, Structure, and Spectroscopic Characterization of Unassociated Mono-, Di- and Triamido Derivatives of Aluminum and Gallium. Organometallics, 1994, 13, 2792-2799.	2.3	76
64	Synthesis and Characterization of $[Mes^*AlH_2]_2$ ($Mes^* = 2,4,6\text{-}(tert\text{-}Bu)_3C_6H_2$): A Base-Free Arylallane. Inorganic Chemistry, 1994, 33, 5611-5612.	4.0	49
65	Reduction of a tetraaryldialane to generate aluminum-aluminum π -bonding. Inorganic Chemistry, 1993, 32, 2983-2984.	4.0	163
66	Synthesis and characterization of the monomeric gallium monoamides $tert\text{-}Bu_2GaN(R)SiPh_3$ ($R = H, i\text{-}Pr$) $Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50$ $Trip_2GaNPh_2$. Inorganic Chemistry, 1993, 32, 2557-2561.	4.0	54
67	Isolation and structural characterization of unsolvated lithium aryls. Journal of the American Chemical Society, 1993, 115, 11353-11357.	13.7	197
68	Synthesis and characterization of bulky aryl derivatives of the heavier Main Group 3 elements. Organometallics, 1993, 12, 1086-1093.	2.3	104