Rudolf J Wehmschulte

List of Publications by Year
in descending order

68	2,826	126708 33	174990 52
papers	citations	h-index	g-index

72	72	72	1844
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Zinc Ammonio-dodecaborates: Synthesis, Lewis Acid Strength, and Reactivity. Inorganic Chemistry, 2022, 61, 7032-7042.	1.9	6
2	Towards Naked Zinc(II) in the Condensed Phase: A Highly Lewis Acidic Zn^{II} Dication Stabilized by Weakly Coordinating Carborate Anions. Angewandte Chemie, 2021, 133, 2112-2116.	1.6	4
3	Towards Naked Zinc(II) in the Condensed Phase: A Highly Lewis Acidic Zn^{II} Dication Stabilized by Weakly Coordinating Carborate Anions. Angewandte Chemie - International Edition, 2021, 60, 2084-2088.	7.2	16
4	Convenient Access to Gallium(I) Cations through Hydrogen Elimination from Cationic Gallium(III) Hydrides. Inorganic Chemistry, 2019, 58, 12441-12445.	1.9	26
5	Recent Developments on the Use of Group 13 Metal Complexes in Catalysis. ChemCatChem, 2018, 10, 2509-2520.	1.8	94
6	Alkylaluminum, -gallium, -magnesium, and -zinc monophenolates with bulky substituents. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 943-951.	0.3	2
7	Catalytic Reduction of Carbon Dioxide Using Cationic Organoaluminum and -Gallium Compounds. Organometallics, 2017, 36, 4810-4815.	1.1	38
8	Chlorination of 1-Carba-closo-dodecaborate and 1-Ammonio-closo-dodecaborate Anions. Inorganic Chemistry, 2016, 55, 10617-10627.	1.9	33
9	Lewis base adducts of diisobutylaluminum azide: synthesis and thermal stability. Journal of Coordination Chemistry, 2015, 68, 2470-2479.	0.8	0
10	Synthesis and Reactivity of Indium(I) 1-Carba-closo-undecachlorododecaborate. Inorganic Chemistry, 2015, 54, 9195-9200.	1.9	13
11	Synthesis and Structure of the First Bridgehead Silylium Ion. Organometallics, 2014, 33, 2146-2149.	1.1	11
12	A Direct Stereoselective Preparation of a Fish Pheromone and Application of the Zinc Porphyrin Tweezer Chiroptical Protocol in Its Stereochemical Assignment. Chirality, 2013, 25, 575-581.	1.3	5
13	CO₂ Activation with Bulky Neutral and Cationic Phenoxyalanes. Organometallics, 2013, 32, 6812-6819.	1.1	73
14	Cationic organoaluminum compounds as intramolecular hydroamination catalysts. Journal of Organometallic Chemistry, 2012, 696, 4179-4183.	0.8	36
15	Low Valent Organoaluminum (+I, +II) Species. Topics in Organometallic Chemistry, 2012, , 91-124.	0.7	11
16	Deoxygenative Reduction of Carbon Dioxide to Methane, Toluene, and Diphenylmethane with [Et₂Al]⁺ as Catalyst. Angewandte Chemie - International Edition, 2012, 51, 7323-7326.	7.2	167
17	Synthesis and Characterization of Bulky Cationic Arylalkylaluminum Compounds. Organometallics, 2011, 30, 2563-2570.	1.1	35
18	Cationic Ethylzinc Compound: A Benzene Complex with Catalytic Activity in Hydroamination and Hydrosilylation Reactions. Inorganic Chemistry, 2011, 50, 11300-11302.	1.9	55

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19	Low-Coordinate Aluminum Amides from Silylanilines and Alkylalanes. European Journal of Inorganic Chemistry, 2011, 2011, 521-526.	1.0	5
20	At Last: A Stable Univalent Gallium Cation. Angewandte Chemie - International Edition, 2010, 49, 4708-4709.	7.2	12
21	m-Terphenylphosphines: Synthesis, structures and coordination properties. Inorganica Chimica Acta, 2009, 362, 3465-3474.	1.2	24
22	Synthesis of aryloxyaluminium hydrides and their conversion into aryloxyalumoxanes (ArOAlO)n. Dalton Transactions, 2009, , 9322.	1.6	8
23	Size Matters: Room Temperature Pâ^'C Bond Formation Through Câ^'H Activation in m-Terphenyldiiodophosphines. Inorganic Chemistry, 2008, 47, 2858-2863.	1.9	18
24	Facile Synthesis of Monoazidotitanium Isopropoxides. Inorganic Chemistry, 2008, 47, 10804-10806.	1.9	7
25	m-Terphenylaluminum and -gallium Compounds: Synthesis and Conversion into Low-Coordinate Organogallium Cations. European Journal of Inorganic Chemistry, 2007, 2007, 1671-1681.	1.0	36
26	Aluminumoxyhydride:Â Improved Synthesis and Application as a Selective Reducing Agent. Inorganic Chemistry, 2006, 45, 8807-8811.	1.9	7
27	Facile Synthesis of Unsymmetrical 9-Phospha- and 9-Arsafluorenes. Inorganic Chemistry, 2006, 45, 5568-5575.	1.9	42
28	Room temperature synthesis of silver nanowires from tabular silver bromide crystals in the presence of gelatin. Journal of Solid State Chemistry, 2006, 179, 696-701.	1.4	18
29	A novel hybrid of carbon nanotubes/iron nanoparticles: iron-filled nodule-containing carbon nanotubes. Carbon, 2005, 43, 1550-1555.	5.4	42
30	Synthesis and Characterization of an Almost Linear, Quasi-Two-Coordinate, Cationic Diorganoaluminum Compound. Organometallics, 2004, 23, 1965-1967.	1.1	47
31	Synthesis and Characterization of Amorphous Nanostructured HAlO, a Novel Aluminumoxyhydride.. ChemInform, 2003, 34, no.	0.1	0
32	[2,6-Mes2C6H3]2Ga+Li[Al{OCH(CF3)2}4]2- (Mes = 2,4,6-Me3C6H2):â€‰ A Compound Containing a Linear Unsolvated Two-Coordinate Gallium Cation. Journal of the American Chemical Society, 2003, 125, 1470-1471.	6.6	57
33	Diterphenylgallium Alkyls and Hydride:â€‰ Synthesis, Characterization, and Reactivity. Organometallics, 2003, 22, 4678-4684.	1.1	28
34	Synthesis and Characterization of Amorphous Nanostructured HAlO, a Novel Aluminumoxyhydride. Chemistry of Materials, 2003, 15, 2803-2808.	3.2	23
35	Unsymmetrical 9-Borafluorenes via Low-Temperature Câ^'H Activation of m-Terphenylboranes. Organometallics, 2003, 22, 83-92.	1.1	52
36	Synthesis of novel nanostructured Î³-Al2O3by pyrolysis of aluminiumoxyhydrideâ€“HAlO. Journal of Materials Chemistry, 2003, 13, 3107-3111.	6.7	18

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37	Large Thick Flattened Carbon Nanotubes. Nano Letters, 2002, 2, 1439-1442.	4.5	58
38	Synthesis and Reactivity of Amidoaluminum Hydride Compounds as Potential Precursors to AlN. Journal of Cluster Science, 2002, 13, 503-520.	1.7	11
39	Synthesis and Characterization of a Sterically Encumbered Unsymmetrical 9-Borafluorene, Its Pyridine Adduct, and Its Dilithium Salt. Organometallics, 2001, 20, 844-849.	1.1	50
40	Reaction ofm-Terphenyldichlorophosphanes with Sodium Azide:Â Synthesis and Characterization of Stable Azidocyclophosphazenes. Inorganic Chemistry, 2001, 40, 2756-2762.	1.9	30
41	Synthesis and Characterization of an Unsolvated Dimeric Diarylmagnesium Compound and Its Magnesium Iodide Byproducts. Inorganic Chemistry, 2001, 40, 6004-6008.	1.9	28
42	Novel Aluminum Hydride Derivatives from the Reaction of H3AlÂ·NMe3with the Cyclosilazanes [Me2SiNH]3and [Me2SiNH]4. Inorganic Chemistry, 2001, 40, 1316-1322.	1.9	25
43	Primary alanes and alanates: useful synthetic reagents in aluminum chemistry. Polyhedron, 2000, 19, 1649-1661.	1.0	48
44	Reaction of cyclopentadienyl zirconium derivatives with sterically encumbered arylaluminum hydrides: X-ray crystal structure of (Î·5-C5H5)2(H)Zr(Î¼2-H)2Al(H)C6H2-2,4,6-But3. Polyhedron, 1999, 18, 1885-1888.	1.0	19
45	Multiple Gaâ^'Ga Bonding Character in Na2[Ga(GaTrip2)3], and a Comparison with Neutral Ga(GaTrip2)3 (Trip=2,4,6-iPr3C6H2). Angewandte Chemie - International Edition, 1998, 37, 3152-3154.	7.2	26
46	Interaction of the bulky alane (H2AlC6H3-2,6-Mes2)2 (Mes=â€“C6H3-2,4,6-Me3) with H2EPh (E=N, P or As). New Journal of Chemistry, 1998, 22, 1125-1130.	1.4	13
47	New route to organoaluminium sulfides: synthesis of (Mes*AlS)2 (Mes* = -C6H2But3-2,4,6) and its dimethyl sulfoxide adduct [Mes*AlS(OSMe2)]2. Chemical Communications, 1998, , 335-336.	2.2	27
48	Reaction of the Primary Alane (2,4,6-t-Bu3H2C6AlH2)2with Nitriles, Isonitriles, and Primary Amines. Inorganic Chemistry, 1998, 37, 6906-6911.	1.9	40
49	Monomeric Alanes:Â Synthesis, Structure, and Thermolysis of Mes*Al(H)N(SiMe3)2and a One-Pot Synthetic Route to Mes*2AlH (Mes* = â^'C6H2-2,4,6-t-Bu3). Inorganic Chemistry, 1998, 37, 2106-2109.	1.9	19
50	A New Synthetic Route to Organoalumoxanes (RAlO)n:Â Synthesis of (Mes*AlO)4(Mes* =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td 1997, 119, 8387-8388.	6.6	78
51	Synthesis and Characterization of Lewis Base-Free, Ïƒ-Bonded Lithium Aryls:Â A Structural Model for Unsolvated Phenyllithium in the Solid State. Journal of the American Chemical Society, 1997, 119, 2847-2852.	6.6	46
52	Low-Temperature Synthesis of Aluminum Sulfide as the Solvate Al4S6(NMe3)4in Hydrocarbon Solution. Journal of the American Chemical Society, 1997, 119, 9566-9567.	6.6	39
53	Synthesis and Structure of Mes*AlN(Ph)Al(Mes*)N(Ph)NPh:Â A Formal Aluminumâ^'Nitrogen Analog of the Cyclopentadienide Ion. Inorganic Chemistry, 1996, 35, 2717-2718.	1.9	30
54	Reactions of (H2AlMes*)2 (Mes* = 2,4,6-(t-Bu)3C6H2) with H2EAr (E = N, P, or As; Ar = aryl):â€‰ 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.	6.6	109

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55	Synthesis and Characterization of Sterically Encumbered Derivatives of Aluminum Hydrides and Halides:Â Assessment of Steric Properties of Bulky Terphenyl Ligands. Inorganic Chemistry, 1996, 35, 6694-6702.	1.9	84
56	New Routes to Synthetically Useful, Sterically Encumbered Arylaluminum Halides and Hydride Halides. Inorganic Chemistry, 1996, 35, 3262-3267.	1.9	35
57	Synthesis and Structure of Unassociated Mono-, Di- and Trithiolate Derivatives of Aluminum and Gallium: Investigation of Al-S and Ga-S .pi.-Bonding. Inorganic Chemistry, 1995, 34, 2593-2599.	1.9	39
58	Synthesis and Characterization of the .sigma.-Bonded, Quasi-Linear, Metal(II) Diaryls MMes2 (M = Mg,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.1	102
59	New Base-Free Alanes and Gallanes: Synthesis and Characterization of Monomeric Mes*2GaH (Mes* =) Tj ETQq1 1 0.784314 rgBT /Ov Crowded Arylaluminum Species. Inorganic Chemistry, 1994, 33, 6300-6306.	1.9	68
60	Evidence for Ï€ bonding in the boronâ€“thiolate compounds (2,4,6-Me3C6H2)2B(SPh) and (2,4,6-Pri3C6H2)B(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.	1.9	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.	1.1	3
63	Synthesis, Structure, and Spectroscopic Characterization of Unassociated Mono-, Di- and Triamido Derivatives of Aluminum and Gallium. Organometallics, 1994, 13, 2792-2799.	1.1	76
64	Synthesis and Characterization of [Mes*AlH2]2 (Mes* = 2,4,6-(tert-Bu)3C6H2): A Base-Free Arylalane. Inorganic Chemistry, 1994, 33, 5611-5612.	1.9	49
65	Reduction of a tetraaryldialane to generate aluminum-aluminum .pi.-bonding. Inorganic Chemistry, 1993, 32, 2983-2984.	1.9	163
66	Synthesis and characterization of the monomeric gallium monoamides tert-Bu2GaN(R)SiPh3 (R =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Trip2GaNPh2. Inorganic Chemistry, 1993, 32, 2557-2561.	1.9	54
67	Isolation and structural characterization of unsolvated lithium aryls. Journal of the American Chemical Society, 1993, 115, 11353-11357.	6.6	197
68	Synthesis and characterization of bulky aryl derivatives of the heavier Main Group 3 elements. Organometallics, 1993, 12, 1086-1093.	1.1	104