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LISTE DER VERÖFFENTLICHUNGEN

2004

1. **Ackermann, Jens; Meyer, Franc; Pritzkow, Hans:**
Compartmental pyrazolate ligands providing two adjacent tris(pyridylalkyl)amine-type binding pockets and their dicopper(II) fluoride complexes featuring extremely short intermolecular O–H···F bridges.
Inorg. Chim. Acta **357**, 3703-3711 (2004)
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Unusual oligonuclear copper(II) complexes based on a bis(tridentate) compartmental pyrazolate ligand.
Z. Anorg. Allg. Chem. **630**, 2627-2631 (2004)
3. **Alexopoulos, Eftichia; Küsel, Andrea; Sheldrick, George M.; Diederichsen, Ulf; Usón, Isabel:**
Solution and structure of an alternating D,L-peptide.
Acta Crystallogr. **D60**, 1971-1980 (2004)
4. **Anantharaman, Ganapathi; Chandrasekhar, Vadapalli, Walawalkar, Mrinalini G., Roesky, Herbert W.; Vidovic, Denis; Magull, Jörg; Noltemeyer, Mathias:**
Molecular zinc phosphonates: synthesis and X-ray crystal structures of $[\{(ZnMe)_4(THF)_2\}\{tBuPO_3\}_2]$ and $[\{(ZnEt)_3(Zn(THF))_3\}\{tBuPO_3\}_4\{\mu_3-OEt\}]$.
Dalton Trans. (8), 1271-1275 (2004)
5. **Anantharaman, Ganapathi; Chandrasekhar, Vadapalli; Nehete, Umesh N.; Roesky, Herbert W.; Vidovic, Denis; Magull, Jörg:**
New polyhedral zinc siloxanes: synthesis and X-ray crystal structures of $Zn_8Me_7(dioxane)_2(O_3SiR)_3$ and $[Zn_7Me_2(THF)_5(O_3SiR)_4]$ [R = (2,6-*i*-Pr₂C₆H₃)N(SiMe₃)].
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6. **Bai, Guangcai; Vidovic, Denis; Roesky, Herbert W.; Magull, Jörg:**
A novel potassium-centered highly symmetrically polynuclear zirconium complex: $K[\{Cp^*Zr\}_3\mu_3-N](\mu_3-$

$\text{NH}(\mu_3\text{-NH}_2)_3\}_4(\text{NH}_2)_5(\text{NH}_3)_7]$.
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- 7. Barnewitz**, Kathrin; **Guo**, Chaoshe; **Sevvana**, Madhumati; **Ma**, Qingjun; **Sheldrick**, George M.; **Söling**, Hans-Dieter; **Ferrari**, David M.:
Mapping of a substrate binding site in the protein disulfide isomerase-related chaperone wind based on protein function and crystal structure.
J. Biolog. Chem. **279**, 39829-39837 (2004)
- 8. Bauer-Siebenlist**, Bernhard; **Meyer**, Franc; **Farkas**, Etelka; **Vidovic**, Denis; **Cuesta-Seijo**, Jose Antonio; **Herbst-Irmer**, Regine; **Pritzkow**, Hans:
Correlation of structure and function in oligonuclear zinc(II) model phosphatases.
Inorg. Chem. **43**, 4189-4202 (2004)
- 9. Bülow**, Rixa von; **Deuerlein**, Stephan; **Stey**, Thomas; **Herbst-Irmer**, Regine; **Gornitzka**, Heinz; **Stalke**, Dietmar:
N-aryl anions: half way between amides and carbanions.
Z. Naturforsch. **59b**, 1471-1479 (2004)
- 10. Chai**, Jianfang; **Zhu**, Hongping; **Fan**, Hongjun; **Roesky**, Herbert W.; **Magull**, Jörg:
Structurally characterized neutral monoalkyl and -aryl complexes of manganese(II).
Organometallics **22**, 1177-1179 (2004)
- 11. Chai**, Jianfang; **Zhu**, Hongping; **Peng**, Ying; **Roesky**, Herbert W.; **Singh**, Sanjay; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias:
Synthesis and structural characterization of monomeric manganese(II) *N*-heterocyclic carbene complexes $[\text{MnX}_2(\text{C}\{\text{N}(\text{iPr})\text{C}(\text{Me})\}_2)_2]$ (X = Cl, I, and MeCOO).
Eur. J. Inorg. Chem. (**13**), 2673-2677 (2004)
- 12. Chai**, Jianfang ; **Zhu**, Hongping; **Roesky**, Herbert W.; **Yang**, Zhi; **Jancik**, Vojtech; **Herbst-Irmer**, Regine; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias:
Synthesis and structure of allyl and alkynyl complexes of manganese(II) supported by a bulky β -diketiminato ligand.
Organometallics **23**, 5003 – 5006 (2004)
- 13. Chai**, Jianfang; **Zhu**, Hongping; **Roesky**, Herbert W.; **He**, Cheng; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias:
Synthesis, structure and reactivity of β -diketiminato complexes of manganese(II).
Organometallics **23**, 3284-3289 (2004)
- 14. Christmann**, Ute; **Dau**, Holger; **Haumann**, Michael; **Kiss**, Erzsebet; **Liebisch**, Peter; **Rehder**, Dieter; **Santoni**, Gabriella; **Schulzke**, Carola:
Substrate binding to vanadate-dependent bromoperoxidase from *Ascophyllum nodosum*: a vanadium K-edge XAS approach.
Dalton Trans. (**16**), 2534-2540 (2004)
- 15. Coyle**, Joanne; **Downard**, Alison J.; **Nelson**, Jane; **McKee**, Vickie; **Harding**, Charles J.; **Herbst-Irmer**, Regine:
Electrochemistry of a labile average-valence dicopper system.
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- 16. Demeshko**, Serhiy; **Dechert**, Sebastian; **Meyer**, Franc:
Anion- π interactions in a carousel copper(II)-triazine complex.
J. Am. Chem. Soc. **126**, 4508-4509 (2004)
- 17. Demeshko**, Serhiy; **Leibeling**, Guido; **Dechert**, Sebastian; **Meyer**, Franc:
1,3,5-Triazine-based tricopper(II) complexes: structure and magnetic properties of threefold-symmetric building blocks.
Dalton Trans. (**21**), 3782-3787 (2004)

- 18. Ebker, Christina; Klingebiel, Uwe:**
1,3-Diaza-2-silacyclopentanes – reactions, crystal structures, and isomerisations.
Phosphorus, Sulfur, and Silicon **179**, 949-950 (2004)
- 19. Edelmann, Frank T.; Poremba, Peter; Bohnen, Frank Michael; Herbst-Irmer, Regine:**
Synthesis, structure, and lanthanide derivatives of an unusual hexameric alcohol: $[2,4,6-(\text{CF}_3)_3\text{C}_6\text{H}_2\text{CH}_2\text{OH}]_6$.
Z. Anorg. Allg. Chem. **630**, 1671-1676 (2004)
- 20. Fredelake, Bernd; Ebker, Christina; Klingebiel, Uwe; Noltemeyer, Mathias; Schmatz, Stefan:**
(Fluorosilyl)ethylenediamines and fluorosilyl-1,3-diaza-2-silacyclopentanes.
J. Fluorine Chem. **125**, 1007-1017 (2004)
- 21. Gorol, Michael; Mösch-Zanetti, Nadia C.; Roesky, Herbert W.; Noltemeyer, Mathias; Schmidt, Hans-Georg:**
Synthesis of a novel organoiridium(I) fluoro complex.
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- 22. Jancik, Vojtech; Pineda, Leslie W.; Pinkas, Jiri; Roesky, Herbert W.; Neculai, Dante; Neculai, Ana M.; Herbst-Irmer, Regine:**
Preparation of monomeric $[\text{LAl}(\text{NH}_2)_2]$ – a main-group metal diamide containing two terminal NH_2 groups.
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- 23. Jancik, Vojtech; Moya Cabrera, Monica M.; Roesky, Herbert W.; Herbst-Irmer, Regine; Neculai, Dante; Neculai, Ana M.; Noltemeyer, Mathias; Schmidt, Hans-Georg:**
Phosphane-catalyzed reactions of LAlH_2 with elemental chalcogens; preparation of $[\text{LAl}(\mu\text{-E})_2\text{AlL}]$ [E = S, Se, Te, L = $\text{HC}\{\text{C}(\text{Me})\text{N}(\text{Ar})\}_2$, Ar = 2,6-*i*Pr $_2\text{C}_6\text{H}_3$].
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- 24. Jancik, Vojtech; Roesky, Herbert W.; Neculai, Dante; Neculai, Ana M.; Herbst-Irmer, Regine:**
Preparation of $[\text{LAl}(\mu\text{-S})_2\text{MCP}_2]$ (M = Ti, Zr) from the structurally characterized lithium complexes $[\text{LAl}(\text{SH})[\text{SLi}(\text{thf})_2]]_2$ and $[\{\text{LAl}[(\text{SLi})_2(\text{thf})_3]\}_2]\cdot 2\text{THF}$.
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- 25. Kliem, Susanne; Klingebiel, Uwe:**
Stepwise synthesis of SiOSiN -rings and cages.
Phosphorus, Sulfur, and Silicon **179**, 765-770 (2004)
- 26. Kumar, S. Shrvan; Rong, Junfeng; Singh, Sanjay; Roesky, Herbert W.; Vidovic, Denis; Magull, Jörg; Neculai, Dante:**
Synthesis and reactivity of the carbaalanes $(\text{AlH})_6(\text{AlNMe}_3)_2(\text{CCH}_2\text{C}_5\text{H}_4\text{FeC}_5\text{H}_5)_6$ and $(\text{AlH})_6(\text{AlNMe}_3)_2(\text{CCH}_2\text{Ph})_6$; X-ray crystal structure of $(\text{AlH})_6(\text{AlNMe}_3)_2(\text{CCH}_2\text{C}_5\text{H}_4\text{FeC}_5\text{H}_5)_6$.
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- 27. Leibelng, Guido; Demeshko, Serhiy; Bauer-Siebenlist, Bernhard; Meyer, Franc; Pritzkow, Hans:**
Polynuclear and extended coordination compounds from preorganized bimetallic components: tuning the magnetic properties of dinickel(II) building blocks.
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- 28. Liebau, Verena; Noltemeyer, Mathias; Magull, Jörg; Klingebiel, Uwe:**
Carbazolylsilane: Synthese und Kristallstrukturen.
Z. Naturforsch. **59b**, 1045-1050 (2004)
- 29. Magyar, Angéla; Wölfling, János; Kubas, Melanie; Cuesta Seijo, Jose Antonio; Sevvana, Madhumati; Herbst-Irmer, Regine; Forgó, Péter; Schneider, Gyula:**
Synthesis of novel steroid-tetrahydroquinoline hybrid molecules and D-homosteroids by intramolecular cyclization reactions.
Steroids **69**, 301-312 (2004)
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Nickel.

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Crystal structure of the alkylsulfatase AtsK: insights into the catalytic mechanism of the Fe(II) α -ketoglutarate-dependent dioxygenase superfamily.
Biochemistry **43**, 3075-3088 (2004)
32. **Murugavel**, Ramaswamy; **Walawalkar**, Mrinalini G.; **Dan**, Meenakshi; **Roesky**, Herbert W.; **Rao**, C. N. R.:
Transformations of molecules and secondary building units to materials: a bottom-up approach.
Acc. Chem. Res. **37(10)**, 763-774 (2004)
33. **Neculai**, Ana M.; **Neculai**, Dante; **Roesky**, Herbert W.; **Magull**, Jörg:
Synthesis and structure of $LLnBr_2$ (L = $Et_2NCH_2CH_2NC(Me)CHC(Me)NCH_2CH_2NEt_2$; Ln = Y, Sm, and Yb).
Polyhedron **23**, 183-187 (2004)
34. **Nehete**, Umesh N.; **Chandrasekhar**, Vadapalli; **Jancik**, Vojtech; **Roesky**, Herbert W.; **Herbst-Irmer**, Regine:
Heavy-metal-containing polyhedral metallasiloxane derived from an aminosilanetriol: synthesis and structural characterization of $[(PbO)_6(R_2Si_2O_3)_2]$ (R = (2,6-*i*Pr₂C₆H₃)N(SiMe₃)).
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Molecular $\{(SnO)_6$ trapped by two $(R_2Si_2O_3)$ fragments: X-ray single-crystal structure of $[(SnO)_6\{R_2Si_2O_3\}_2]$.
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Polyhedral ferrous and ferric siloxanes.
Angew. Chem. **116**, 3920-3923 (2004); *Angew. Chem. Int. Ed.* **43**, 3832-3835 (2004)
37. **Nikiforov**, Grigori B.; **Roesky**, Herbert W.; **Noltmeyer**, Mathias; **Schmidt**, Hans-Georg:
Reactivity of $Ti(bipy)_3$ and preparation of the $Li(THF)_4[Al(bipy)_2]$ complex with the dinegative bipy ligand.
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Inclusion complexes of V-amylose with undecanoic acid and dodecanol at atomic resolution: X-ray structures with cycloamylose containing 26 D-glucoses (cyclohexacosose) as host.
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39. **Oberhammer**, Heinz; **Girichev**, Georgiy V.; **Giricheva**, Nina I.; **Krasnov**, Alexander V.; **Klingebiel**, Uwe:
Molecular structure and conformations of 2,2-di-*tert*-butyl-1,3-diaza-2-silacyclopentane: gas electron diffraction and quantum chemical calculations.
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40. **Peng**, Ying; **Fan**, Hongjun; **Zhu**, Hongping; **Roesky**, Herbert W.; **Magull**, Jörg; **Hughes**, Colan E.:
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 $[LaI(\mu-S_3)_2AlI]$: a homobimetallic derivative of the sulfur crown S₈.
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Synthesis and structural characterization of an unusual heptameric aluminum imide and the surface fluorination products of the Al₇N₇ and Al₄C₄N₄ cores.
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Synthesis and structures of aluminum monohydride and chalcogenides bearing a bidentate [N,O] ligand.
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Germacarboxylic acid : an organic-acid analogue based on a heavier group 14 element.
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Preparation and structure of the first germanium(II) hydroxide: the congener of an unknown low-valent carbon analogue.
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Chemical reactivity of alumazene.
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47. **Reiche, Clemens; Klingebiel, Uwe;**
Stepwise synthesis of mono-NH-SiF-functional cyclodisilazanes.
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48. **Richter, Joachim; Feiling, Jürgen; Schmidt, Hans-Georg; Noltemeyer, Mathias; Brüser, Wolfgang; Edelmann, Frank T.:**
Lanthanide(III) amidinates with six- and seven-coordinate metal atoms.
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Pyrazolate-based dinucleating ligands in L₂M₂ scaffolds: effects of bulky substituents and coligands on structures and M...H-C interactions.
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Control of molecular topology and metal nuclearity in multimetallic assemblies: designer metallocloxanes derived from silanetriols.
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Hydroalumination reactions in organic chemistry.
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A paradigm change in assembling OH functionalities on metal centers.
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The renaissance of aluminum chemistry.
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Unusual isomerization reactions in 1,3-diaza-2-silacyclopentanes.
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Tetranuclear homo- and heteroalumoxanes containing reactive functional groups: syntheses and X-ray crystal structures of $[[\text{LAl}(\text{Me})(\mu\text{-O})(\text{MH}_2)]_2]$.
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Adducts of aluminum and gallium trichloride with a *N*-heterocyclic carbene and an adduct of aluminum trichloride with a thione.
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Methyl substitution of aluminum-hydride bonds in a carbaalane and an aluminum imide.
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Synthesis of carbaalane halogen derivatives.
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Reactions of the aluminum(I) monomer $\text{LAl} [\text{L} = \text{HC}\{(\text{CMe})(\text{NAr})\}_2; \text{Ar} = 2,6\text{-}i\text{Pr}_2\text{C}_6\text{H}_3]$ with imidazol-2-ylidene and diphenyldiazomethane. A hydrogen transfer from the L ligand to the central aluminum atom and formation of the diiminylaluminum compound $\text{LAl}(\text{N}=\text{CPh}_2)_2$.
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A seven-membered aluminum sulfur allenyl heterocycle arising from the conversion of an aluminacyclopentene with CS_2 .
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Two types of intramolecular addition of an Al-N multiple-bonded monomer LAlNAr' arising from the reaction of LAl with $\text{N}_3\text{Ar}'$ ($\text{L} = \text{HC}[\text{CMe}](\text{NAr})_2$, $\text{Ar}' = 2,6\text{-Ar}_2\text{C}_6\text{H}_3$, $\text{Ar} = 2,6\text{-}i\text{Pr}_2\text{C}_6\text{H}_3$).
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