

**INSTITUT FÜR ANORGANISCHE CHEMIE  
DER UNIVERSITÄT GÖTTINGEN**

**Am Institut tätig :**

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Prof. Dr. U. Klingebiel  
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Prof. G. M. Sheldrick**

**LISTE DER VERÖFFENTLICHUNGEN**

**2002**

1. **Ackerhans**, Carsten; **Roesky**, Herbert W.; **Labahn**, Thomas; **Magull**, Jörg:  
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2. **Ackermann**, Jens; **Meyer**, Franc; **Kaifer**, Elisabeth; **Pritzkow**, Hans:  
Tuning the activity of catechol oxidase model complexes by geometric changes of the dicopper core.  
*Chem. Eur. J.* **8** (1), 247-258 (2002)
3. **Anantharaman**, Ganapathi; **Roesky**, Herbert W.; **Magull**, Jörg:  
[Zn<sub>4</sub>(thf)<sub>4</sub>(MeZn)<sub>4</sub>(O<sub>3</sub>SiR)<sub>4</sub>] (R = 2,6-*i*Pr<sub>2</sub>C<sub>6</sub>H<sub>3</sub>N(SiMe<sub>3</sub>)), a compound containing trigonal-planar, tetrahedral, and trigonal-bipyramidal metal atoms: a new route to larger aggregates.  
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4. **Antonin**, Wolfram; **Fasshauer**, Dirk; **Becker**, Stefan; **Jahn**, Reinhard; **Schneider**, Thomas R.:  
Crystal structure of the endosomal SNARE complex reveals common structural principles of all SNAREs.  
*Nat. Stru. Biol.* **9**, 107-111 (2002)
5. **Bacchi**, Alessia; **Pelizzi**, Giancarlo; **Sheldrick**, George M.; **Amari**, Gabriele; **Delcanale**, Maurizio; **Redenti**, Enrico:  
The molecular structure and crystal organization of *rac*-terfenadine/β-cyclodextrin/tartaric acid multicomponent inclusion complex.  
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7. **Bai, Guangcai; Roesky, Herbert W.; Noltemeyer, Mathias; Schmidt, Hans-Georg:**  
The formation of an imidozirconium compound by migration of the Imido group from phosphorus to zirconium.  
*J. Chem. Soc., Dalton Trans.*, 2437-2440 (2002)
8. **Bai, Guangcai; Roesky, Herbert W.; Noltemeyer, Mathias; Hans-Georg Schmidt:**  
Synthesis of the amidoimido zirconium anion  $[(\text{HN}t\text{Bu})(\text{N}t\text{Bu})\text{Zr}\{(\text{PN}t\text{Bu})_2(\text{N}t\text{Bu})_2\}]^-$  under reductive conditions.  
*Organometallics* **21**, 2789-2792 (2002)
9. **Buchler, Silke; Meyer, Franc; Kaifer, Elisabeth; Pritzkow, Hans:**  
Tunable TACN/pyrazolate hybrid ligands as dinucleating scaffolds for metallobiosite modelling – dinickel(II) complexes relevant to the Urease active site.  
*Inorg. Chim. Acta* **337**, 371-386 (2002)
10. **Bülow, Rixa von; Schmidt, Bernhard; Dierks, Thomas; Schwabauer, Nelli; Schilling, Klaus; Weber, Ekkehard; Usón, Isabel; Figura, Kurt von:**  
Defective oligomerization of arylsulfatase A as a cause of ist instability in lysosomes and metachromatic leukodystrophy.  
*J. Biol. Chem.* **277**, 9455-9461 (2002)
11. **Chen, Celia C. H.; Zhang, H.; Kim, A. D.; Howard, A.; Sheldrick, George M.; Mariano-Dunaway, D.; Herzberg, O.:**  
Degradation pathway of the phosphonate ciliatine: crystal structure of 2-aminoethylphosphonate transaminase.  
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13. **Diedrich, Friedhelm; Ebker, Christina; Klingebiel, Uwe; Reiche, Clemens; Labahn, Thomas; Magull, Jörg; Noltemeyer, Mathias:**  
N,N'-Bis(silyl)ethylendiamine und 1,3-Diaza-2-silacyclopentane — Synthese, Reaktionen, Strukturen.  
*Z. Naturforsch.* **55b(1)**, 99-106 (2002)
14. **Ding, Yuqiang; Ma, Qingjun; Usón, Isabel; Roesky, Herbert W.; Noltemeyer, Mathias; Schmidt, Hans-Georg:**  
Synthesis and structures of  $[\{\text{HC}(\text{CMeNAr})_2\}\text{Ge(S)X}]$  ( $\text{Ar} = 2,6-i\text{Pr}_2\text{C}_6\text{H}_3$ ,  $\text{X} = \text{F}, \text{Cl}, \text{Me}$ ): structurally characterized examples with a formal double bond between group 14 and 16 elements bearing a halide.  
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15. **Ding, Yuqiang; Ma, Qingjun; Roesky, Herbert W.; Herbst-Irmer, Regine; Usón, Isabel; Noltemeyer, Mathias; Schmidt, Hans-Georg:**  
Synthesis, structures, and reactivity of alkylgermanium(II) compounds containing a diketiminato ligand.  
*Organometallics* **21**(24), 5216-5220 (2002)
16. **Dorn, Hendrik; Roesky, Herbert W. :**  
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Synthesis of stable organosilanes with three functional groups.  
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17. **Dorn, Hendrik; Roesky, Herbert W. :**  
Fluorination with  $\text{Me}_3\text{SnF}$ : synthesis of cyclopentadienyl-substituted group 4 metal fluoride complexes.  
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18. **Emme, Ingo; Redlich, Stefan; Labahn, Thomas; Magull, Jörg; de Meijere, Armin:**  
Tetra- und Pentacyclopropylcyclopentadien – zwei neue Donor-substituiert Liganden für Metallkomplexe.  
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- 20.** **Hao**, Haijun; **Roesky**, Herbert W.; **Ding**, Yuqiang; **Cui**, Chunming; **Schormann**, Mark; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias; **Žemva**, Boris: Access to the structure of fluoromagnesium compounds: synthesis and structural characterization of the  $\beta$ -diketiminato magnesium fluoride  $\{ \text{CH}(\text{CMeNAr})_2 \} \text{Mg}(\mu\text{-F})(\text{THF})_2 \cdot \text{toluene}$ .  
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- 21** **Hao**, Haijun; **Bhandari**, Sonali; **Ding**, Yuqiang; **Roesky**, Herbert W.; **Magull**, Jörg; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias and **Cui**, Chunming: Pyrrolylaldiminato complexes of Zn, Mg and Al.  
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- 22.** **Hatop**, Hagen; **Ferbinteanu**, Marilena; **Roesky**, Herbert W.; **Cimpoesu**, Fanica; **Schiefer**, Marcus; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias: Lightest member of the basic carboxylate structural pattern:  $[\text{Al}_3(\mu_3\text{-O})(\mu\text{-O}_2\text{CCF}_3)_6(\text{THF})_3][\text{Me}_3\text{Si}]_3\text{Ca}(\text{O}_2\text{CCF}_3)_3 \cdot \text{C}_7\text{H}_8$ .  
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- 23.** **Herbst-Irmer**, Regine; **Sheldrick**, George M.: Refinement of obverse/reverse twins.  
*Acta Crystallogr.* **B58**, 477-481 (2002)
- 24.** **Janssen**, Jörg; **Magull**, Jörg; **Roesky**, Herbert W.: Röntgenkristallographisch aufgeklärte Struktur einer Monoorganozinnsäure.  
*Angew. Chem.* **114**, 1425-1427; *Angew. Chem. Int. Ed.* **40**, 1365-1367 (2002)
- 25.** **Jaschke**, Bettina; **Helbold**, Nina; **Müller**, Ilka; **Pape**, Thomas; **Noltemeyer**, Mathias; **Herbst-Irmer**, Regine; **Klingebiel**, Uwe: Kopplung von Cyclosilazanen mit Aminofluorboranen und Borazinen.  
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- 26.** **Jendras**, Michael; **Klingebiel**, Uwe; **Noltemeyer**, Mathias: Tetrakis[lithium-*tert*-butyl(di-*tert*-butylfluorosilyl)amide]-dilithium oxide,  $(^t\text{Bu}_2\text{SiF-NLi}^t\text{Bu})_4\text{Li}_2\text{O-a Li}_6\text{O}^{4+}$ -cluster.  
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- 27.** **Jones**, Peter G.; **Vancea**, Fabiola; **Herbst-Irmer**, Regine: Secondary interactions in *n*-(chloromethyl)pyridinium chlorides (*n* = 2,3,4).  
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- 28.** **Kliem**, Susanne; **Klingebiel**, Uwe: Stepwise synthesis of siloxanes-rings and cages. In: Harald A. Øye (Hrsg.): *Silicon for the Chemical Industry* (Silicon for the Chemical Industry, Loen, Norwegen, 17-21.06.2002.). Bd. 6. 2002, S. 139-150. - ISBN 82-90265-24-7
- 29.** **König**, Verena; **Schneider**, Thomas R.; **Frank**, Eva; **Aukszi**, Beatrix; **Schneider**, Gyula; **Wölfling**, János: 3-Methoxy-1'-phenyl-4'  $\beta$ ,5-dihydro-1*H*-pyrazolo[4',3':16,17]estradi-1,3,5(10)-triene.  
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- 30.** **Langer**, Peter; **Armbrust**, Holger; **Eckhardt**, Tobias; **Magull**, Jörg: Synthesis of functionalized 2-alkylenetetrahydrafurans by cyclization of 1,3-bis(trimethylsilyloxy)-1,3-butadienes with epoxides.  
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- 32.** **Madalan**, Augustin M.; **Roesky**, Herbert W.; **Andruh**, Marius; **Noltemeyer**, Mathias; **Stanica**, Nicolae: The first coordination compound containing three different types of spin carriers: 2p - 3d - 4f (TCNQ<sup>-</sup>, Cu<sup>2+</sup> and Gd<sup>3+</sup>). *Chem. Comm.* **(15)** 1638 – 1639 (2002)
- 33.** **Meyer**, Franc: Jahresrückblick Bioanorganische Chemie 2001. *Nachrichten aus der Chemie* **50**, 273 – 277 (2002)
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- 35.** **Mösch-Zanetti**, Nadia C.; **Hewitt**, Manuel; **Schneider**, Thomas R.; **Magull**, Jörg: Titanium complexes containing bulky  $\eta^2$ -1,2,4-triazolato ligands. *Eur. J. Inorg. Chem.* **(5)** 1181-1185 (2002)
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- 41.** **Neculai**, Dante; **Roesky**, Herbert W.; **Neculai**, Ana Mirela; **Magull**, Jörg; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias: Synthesis and structure of monomeric and solvent-free LPrX<sub>2</sub> compounds supported by a new  $\beta$ -diketiminato ligand [L = Et<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>NC(Me)CHC(Me)NCH<sub>2</sub>CH<sub>2</sub>Net<sub>2</sub>, X = Cl, Br, BH<sub>4</sub>]. *J. Organomet. Chem.* **643-644**, 47-52 (2002)
- 42.** **Prust**, Jörg; **Hohmeister**, Holger; **Stasch**, Andreas; **Roesky**, Herbert W.; **Magull**, Jörg; **Alexopoulos**, Eftichia; **Usón**, Isabel; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias: Synthesis and structural characterization of  $\beta$ -diketoinate complexes containing three-coordinate zinc and copper atoms. *Eur. J. Inorg. Chem.* **(8)** 2156-2162 (2002)
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Combining organometallic and Werner-type coordination sites in highly preorganized heterobimetallic  
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A homoleptic zirconium complex with four bulky η<sup>2</sup>-pyrazolato ligands.  
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49. **Schiefer**, Marcus; **Hatop**, Hagen; **Roesky**, Herbert W.; **Schmidt**, Hans-Georg; **Noltemeyer**, Mathias:  
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51. **Schneider**, Thomas R.; **Sheldrick**, George M.:  
Substructure solution with SHELXD.  
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Syntheses, structures, and surface aromaticity of the new carbaalane [(AlH)<sub>6</sub>(AlNMe<sub>3</sub>)<sub>2</sub>(CCH<sub>2</sub>R)<sub>6</sub>] (R = Ph,  
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Atomic resolution structure of squash trypsin inhibitor: unexpected metal coordination.  
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55. **Torres**, Julia; **Kremer**, Carlos; **Kremer**, Eduardo; **Pardo**, Helena; **Suescun**, Leopoldo; **Mombrú**, Álvaro;  
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[(Sm(Asp)(H<sub>2</sub>O)<sub>4</sub>)Cl<sub>2</sub>].  
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A straightforward synthetic route towards tetranuclear copper(II) complexes: reactions between binuclear  
complexes and *exo*-bidentate or *exo*-bis(bidentate) ligands.  
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57. **Wang**, Xiu-Jian; **Langetepe**, Timo; **Persau**, Claudia; **Kang**, Bei-Sheng; **Sheldrick**, George M., **Fenske**, Dieter:  
Synthesen und Kristallstrukturen der Ag-S-Clusterverbindungen  $[Ag_{70}S_{16}(SPh)_{34}(PhCO_2)_4\text{triphos}]$  und  
 $[Ag_{188}S_{94}(PR_3)_{30}]$ .  
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58. **Zheng**, Wenjun; **Roesky**, Herbert W.:  
Alkenyl aluminium compounds: bonding modes and structures.  
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## VORTRÄGE 2002

1. **Bauer-Siebenlist**, Bernhard:  
Präorganisierte, zweikernige Zinkkomplexe als Enzymmodelle.  
*Weihnachtskolloquium der GDCh, Ortsverband Göttingen, 12. Dezember 2002*
2. **Ebker**, Christina; **Diedrich**, Friedhelm; **Schmatz**, Stefan; **Klingebiel**, Uwe:  
Mono- and bis(hydroxylamino)silanes – synthesis, isomerisation and quantum chemical calculations.  
*XIII. International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, 29th August 2002*
3. **Fredelake**, Bernd; **Ebker**, Christina; **Klingebiel**, Uwe:  
Fluorsilylsubstituierte Ethylen diamine und 1,3-Diaza-2-silacyclopentane.  
*X. Deutscher Fluortag, Schmitten / Taunus, 23.09.2002*
4. **Herbst-Irmer**, Regine:  
Non-merohedral twinning workshop.  
*College Station, Texas., 23.-24. Mai 2002*
5. **Herbst-Irmer**, Regine:  
Treatment of non-merohedral twins.  
*Annual Meeting of the American Crystallographic Association, San Antonio, Texas., 25.-30. Mai 2002*
6. **Kliem**, Susanne; **Klingebiel**, Uwe:  
Fluorhaltige Siloxane und Aminsiloxane.  
*X. Deutscher Fluortag, Schmitten / Taunus, 24.09.2002*
7. **Kliem**, Susanne; **Klingebiel**, Uwe; **Reiche**, Clemens:  
Funktionalisierte Silanole und Silanolate.  
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8. **Kliem**, Susanne; **Klingebiel**, Uwe:  
Stepwise synthesis of siloxanes-rings and cages.  
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9. **Klingebiel**, Uwe:  
Cyclosilazane und Borazine – vom Molekül zur Keramik.  
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10. **Klingebiel**, Uwe:  
Iminosilane – Chemie mit der Si=N–Doppelbindung.  
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11. **Meyer**, Franc:  
Bifunktionelle Pyrazolderivate – Schlüsselbausteine auf dem Weg zu präorganisierten Kompartimentliganden.  
*Vortrag bei der Bayer AG, Leverkusen, 26. März 2002*
12. **Meyer**, Franc:  
Hochgradig präorganisierte Bimetalleinheiten – Bausteine für oligonukleare und polymere Komplexe mit justierbaren magnetischen Eigenschaften.  
*Vortrag am Institut für Metallphysik und Nukleare Festkörperphysik der Technischen Universität Braunschweig, 17. Mai 2002*
13. **Meyer**, Franc:  
Das Zusammenwirken von Metallzentren in Mehrkernkomplexen: biologische Vorbilder und synthetische

Modelle.

*Anorganisch-Chemisches Kolloquium der Universität Bonn, 06. Juni 2002*

**14. Meyer, Franc:**

Kooperierende Metallzentren in präorganisierten Bimetalkomplexen: Die Natur als Vorbild.

*Anorganisch-Chemisches Kolloquium der Technischen Universität Chemnitz, 18. Juni 2002*

**15. Meyer, Franc:**

$\mu_3$ - and  $\mu_4$ -bridging azide in magnetism: polynuclear complexes from bimetallic building blocks.

*Vortrag auf der 35th International Conference on Coordination Chemistry (35th ICCC), Heidelberg, 25. Juli 2002*

**16. Meyer, Franc:**

Highly preorganized biomimetic dizinc complexes as hydrolase models.

*Vortrag beim COST D21/001 Working Group Meeting in Lund, Schweden, 02. August 2002*

**17. Meyer, Franc:**

Highly preorganized bimetallic complexes for cooperative substrate transformations — mimics of metalloenzyme active sites.

*Vortrag auf dem 2. Internationalen SFB-Kongress, Jena, 17. September 2002*

**18. Meyer, Franc:**

Das Zusammenwirken von Metallzentren in Mehrkernkomplexen — die Natur als Vorbild.

*Vortrag auf der Wöhler-Tagung der GDCh, Berlin, 04. Oktober 2002*

**19. Meyer, Franc:**

Kooperierende Metallzentren in Mehrkernkomplexen: biologische Vorbilder und synthetische Modelle.

*Anorganisch-Chemisches Kolloquium der Universität Gießen, 04. Dezember 2002*

**20. Roesky, Herbert W.:**

Aluminium – vielfältig, ungewöhnlich.

*GDCh-Vortrag an der Universität Frankfurt, 11. Juni 2002*

**21. Roesky, Herbert W.:**

Aluminum – a carbon analogue.

*International Symposium, Institute of Organic Chemistry of the NAS, Kiev, Ukraine,*

*20. bis 23. August 2002*

**22. Roesky, Herbert W.:**

1) Aluminum – a pioneer for lanthanides

2) The design and reaction of organoaluminum compounds.

*Vorträge im Rahmen der 85<sup>th</sup> Canadian Society for Chemistry Conference and Exhibition,*

*01. bis 05. Juni 2002*

**23. Roesky, Herbert W.:**

Aluminum chemistry: an unusual variety.

*Vortrag auf der National Chemistry Conference, Caciulata, Valcea, Rumänien, 23. bis 25. Oktober 2002*

**24. Roesky, Herbert W.:**

Aromaticity and Lewis base character – two incredible properties of aluminum.

*Vortrag in Indien, Pune, 30. Januar bis 02. Februar 2002*

**25. Roesky, Herbert W.:**

1) Chemie en miniature.

2) Chemische Kabinettsstücke.

*Science Days 2002, Europa-Park Rust, 25. bis 28. September 2002*

**26. Roesky, Herbert W.:**

Chemical curiosities.

*Vortragsreise in England, Bristol, Liverpool, Nottingham, 11. bis 15. Februar 2002*

- 27. Roesky, Herbert W.:**  
Chemische Kabinettsstücke.  
a) *Experimentalvortrag an der Universität Dortmund, 26. Februar 2002*  
b) *Vortrag bei der BASF, Ludwigshafen, „Jugend forscht“, 20. März 2002*  
c) *Vortrag in Ulm, Ortsverband der GDCh, 16. Mai 2002*  
d) *Experimentalvortrag, Jugend forscht, Überlingen am Bodensee, 29. Juli 2002*  
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