

PUBLIKATIONEN

1. Peer-Reviewed Research Paper
2. Reviews
3. Patents
4. Contribution in Books
5. Book Reviews

1. Peer-Reviewed Research Papers

2013

- 141 Bernd Morgenstern, Christian Neis, Anton Zäschka, Jens Romba, Thomas Weyhermüller, Kaspar Hegetschweiler
Formation and Base Hydrolysis of Oxidimethane Bridges in Co^{III}-Amine Complexes. *Inorg. Chem.* **2013**, *52*, 12080-12097.
- 140 Elzbieta Lodyga-Chruscinska, Agnieszka Szebesczyk, Daniela Sanna, Kaspar Hegetschweiler, Giovanni Micera, Eugenio Garribba
Formation in aqueous solution of a non-oxido V^{IV} complex with VN₆ coordination. Potentiometric, ESI-MS, spectroscopic and computational characterization, *Dalton Transactions*, **2013**, *42*, 13404-13416.
- 139 Luisa Pisano, Katalin Varnagy, Sarolta Timari, Kaspar Hegetschweiler, Giovanni Micera, Eugenio Garribba
V^{IV}O Versus V^{IV} Complex Formation by Tridentate (O, N_{arom}, O) Ligands: Prediction of Geometry, EPR ⁵¹V Hyperfine Coupling Constants, and UV-Vis Spectra, *Inorg. Chem.*, **2013**, *52*, 5260-5272.
- 138 Guido. J. Reiss, Kaspar Hegetschweiler
Poly[[(μ₄-1,3,5-triamino-1,3,5-trideoxy-*cis*-inositol)sodium]bromide], *Acta Crystallogr. Sect. E, Structure Reports Online*, **2013**, *E69*, m185-m186.
- 137 Sabine Wilbrand, Christian Neis, Kaspar Hegetschweiler
(*S*)-2,2'-Dihydroxy-*N,N'*-(6-hydroxyhexane-1,5-diyl)dibenzamide, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2013**, *E69*, o223.

2012

- 136 Günter J. Merten, Christian Neis, Stefan Stucky, Volker Huch, Eva Rentschler, Harald Natter, Rolf Hempelmann, Klaus Stöwe, Kaspar Hegetschweiler

The Interplay of Hydrogen Bonding and Multiple Metal Binding – A New Cyclic Polyaminopolyalcohol Ligand as Building Block for the Construction of Microporous, Supramolecular Networks, *Eur. J. Inorg. Chem.* **2012**, 1, 31-35.

- 135 Christian Neis, Günter J. Merten, Kaspar Hegetschweiler
4,6-Dinitropyrogallol, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2012**, E68, o695.
- 134 Günter J. Merten, Christian Neis, Kaspar Hegetschweiler
1,2,3-Trimethoxy-4,5,6-trinitrobenzene, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2012**, E68, o694.
- 133 Christian Neis, Günter J. Merten, Philipp Altenhofer, Kaspar Hegetschweiler
1,3-Diammonio-1,2,3-trideoxy-*cis*-inositol sulfate, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2012**, E68, o1425-o1426.
- 132 Christian Neis, Günter J. Merten, Philipp Altenhofer, Kaspar Hegetschweiler
Redetermination of 1,3-diammonio-1,2,3-trideoxy-*cis*-inositol dichloride, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2012**, E68, o1411-o1412.
- 131 Christian Neis, Günter J. Merten, Kaspar Hegetschweiler
Tris(*cis*-2-hydroxycyclohexane-1,3,5-triaminium)hydrogen sulfate octachloride dihydrate, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2012**, E68, o1899-o1900.
- 130 Sabine Wilbrand, Christian Neis, Kaspar Hegetschweiler
3-Hydroxy-2-methoxybenzamide, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2011**, E68, o3494.

2011

- 129 Ester Orth, Stefan Stucky, Jochen Huppert, Jürgen Sander, Christian Neis, Kaspar Hegetschweiler
New Derivatives of 1,3,5-Triamino-1,3,5-Trideoxy-*cis*-inositol as Specific Metal Complexing Agents, *New Trends in Coordination, Bioinorganic and Applied Inorganic Chemistry*, **2011**, Press of Slovak University of Technology, Bratislava.
- 128 Barbara Kutzky, Christian Neis, Kaspar Hegetschweiler
fac-{2-[Bis(2-aminoethyl)amino]ethanaminium}trichloridorhodium(III)chloride hemihydrate, *Acta Crystallogr. Sect. E, Structure Reports Online*, **2011**, E67, m92-m93.

2010

- 127 Maria Milanova, Joana Zaharieva, Bernd Morgenstern, Kaspar Hegetschweiler, Dimitry Todorovsky
Crystal structure of tetrabutylammonium-[tetrakis(dibenzoylmethanato)-europium(III)]-dimethylsulfoxide (1:1), $[\text{N}(\text{C}_4\text{H}_9)_4][\text{Eu}(\text{C}_{15}\text{H}_{11}\text{O}_2)_4] \cdot \text{C}_2\text{H}_6\text{OS}$, *Z. Kristallogr. NCS*, **2010**, 225, 17-22.

- 126 Christian Neis, David Petry, Alexandre Demangeon, Bernd Morgenstern, Dirk Kuppert, Jochen Huppert, Stefan Stucky, Kaspar Hegetschweiler

Facially Coordinating Triamine Ligands with a Cyclic Backbone: Some Structure-Stability Correlations, *Inorg. Chem.* **2010**, *49*, 10092-10107.

- 125 Mark Bartholomä, Sergej Gisbrecht, Stefan Stucky, Christian Neis, Bernd Morgenstern, Kaspar Hegetschweiler Chelation versus Binucleation: Metal Complex Formation with the Hexadentate *all-cis-N¹,N²*-Bis(2,4,6-trihydroxy-3,5-diaminocyclohexyl)ethane-1,2-diamine, *Chem. Eur. J.*, **2010**, *16*, 3326-3340.

2009

124

Marja Hyvärinen, Juha Vaara, Anna Goldammer, Barbara Kutzky, Kaspar Hegetschweiler, Martin Kaupp, Michael Straka Characteristic Spin-Orbit Induced ¹H(CH₂) Chemical Shifts upon Deprotonation of Group 9 Polyamine Aqua and Alcohol Complexes, *JACS*, **2009**, *131*, 11909-11918.

- 123 Attila Jancsó, Ibolya Török, Kaspar Hegetschweiler, Tamás Gajda

Efficient and selective hydrolysis of 4-nitrophenyl phosphate by a dinuclear copper(II) complex, *ARKIVOC* **2009** (iii), 217 - 224.

- 122 Kaspar Hegetschweiler, Stefan Stucky, Bernd Morgenstern, Christian Neis, Thomas Weyhermüller

Redetermination of bis[μ₃-1,3,5-triamino-1,3,5-trideoxy-*cis*-inositolato(3-)]tribismuth(III) trichloride hexahydrate, *Acta Crystallogr. Sect. C* **2009**, *C65*, m1 - m3.

2008

- 121 Andreas Ries, Juergen Sander, Christian Neis, Anton Zschka, Bernd Morgenstern, Kaspar Hegetschweiler

Crystal structure of (7Z)-7-(2-azidoethylidene)-2,3-dihydrofuro[3,4-*b*][1,4]dioxin-5(7H)-one, C₈H₇N₃O₄, *Z. Kristallogr., New Cryst. Struct.* **2008**, *223*, 377 - 378.

- 120 Jeff Paulus, Stefan Stucky, Kaspar Hegetschweiler

Crystal structure of *trans*-3,4-bis(methylsulfonyloxy)pyrrolidinium chloride, [C₆H₁₄NO₆S₂]⁺Cl⁻, *Z. Kristallogr., New Cryst. Struct.* **2008**, *223*, 375 - 376.

- 119 Bernd Morgenstern, Stefan Stucky, Kaspar Hegetschweiler

- Crystal structure of 2,6-bis(dibromomethyl)phenyl acetate, $C_{10}H_8Br_4O_2$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 373 - 374.
- 118 Anton Zäschka, Daphne Taylor, Gregory Choppin, Christian Neis, Kaspar Hegetschweiler
Crystal structure of 2,4,6-trihydroxy-1,3-benzenediaminium sulfate dihydrate, $[C_6H_{10}N_2O_3][SO_4] \cdot 2H_2O$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 371 - 372.
- 117 Thomas Schweitzer, Daphne Taylor, Gregory Choppin, Christian Neis, Kaspar Hegetschweiler
Crystal structure of 2,4-dinitro-1,3,5-benzenetriol, $C_6H_4N_2O_7$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 369 - 370.
- 116 Barbara Kutzky, Christian Neis, Kaspar Hegetschweiler
Crystal structure of 1,3,5-tri-O-methyl-*cis*-inositol-2-benzoate, $C_{16}H_{22}O_7$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 367 - 368.
- 115 Barbara Kutzky, Christian Neis, Kaspar Hegetschweiler
Crystal structure of *cis*-inositol-monobenzoate, $C_{13}H_{16}O_7$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 365 - 366.
- 114 Barbara Kutzky, Christian Neis, Kaspar Hegetschweiler
Crystal structure of tri-O-propyl-*cis*-inositol-1,3,5-ortho-benzoate, $C_{22}H_{32}O_6$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 363 - 364.
- 113 Barbara Kutzky, Christian Neis, Kaspar Hegetschweiler
Crystal structure of *cis*-inositol-1,3,5-ortho-benzoate hemihydrate, $C_{13}H_{14}O_6 \cdot 0.5H_2O$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 361 - 362.
- 112 Barbara Kutzky, Christian Neis, Kaspar Hegetschweiler
Crystal structure of *cis*-inositol-1,3,5-orthoethanoate, $C_8H_{12}O_6$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 359 - 360.
- 111 Anton Zäschka, Kaspar Hegetschweiler
Crystal structure of 1,3,5/2,4,6-hexahydroxycyclohexane, $C_6H_{12}O_6$, *scyllo*-inositol, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 357 - 358.
- 110 Christian Neis, Kaspar Hegetschweiler
Crystal structure of all-*cis*-cyclohexane-1,2,3-triol, $C_6H_{12}O_3$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 355 - 356.

- 109 Barbara Kutzky, Christian Neis, Kaspar Hegetschweiler
Crystal structure of tri-*O*-methyl-*cis*-inositol-1,3,5-orthobenzoate hemihydrate, $C_{16}H_{20}O_6 \cdot 0.5H_2O$, *Z. Kristallogr., New Cryst. Struct.* **2008**, 223, 352 - 354.
- 108 Gerhard Wenz, Christian Strassnig, Carolin Thiele, Annegret Engelke, Bernd Morgenstern, Kaspar Hegetschweiler
Recognition of Ionic Guests by Ionic β -Cyclodextrin Derivatives, *Chem. Eur. J.* **2008**, 14, 7202 - 7211.
- 107 Stefan Stucky, Nadine J. Koch, Uwe Heinz, Kaspar Hegetschweiler
3,5-Bis(2-hydroxyphenyl)-1*H*-1,2,4-triazole based Ligands - Protonation and Metal Complex Formation, *Chem. Pap.* **2008**, 62, 388 - 397.
- 106 Christian Neis, Thomas Weyhermüller, Eckhard Bill, Stefan Stucky, Kaspar Hegetschweiler
Carbamates of Polyamines - Versatile Building Blocks for the Construction of Polynuclear Metal Complexes, *Eur. J. Inorg. Chem.* **2008**, 1019 - 1021.
- 105 Marc D. Meienberger, Bernd Morgenstern, Stefan Stucky, Kaspar Hegetschweiler
Polymerization of Mo^V : Synthesis and Characterization of a Dinuclear Mo^V and a Hexanuclear Mixed-Valence Mo^V/Mo^{VI} Complex, *Eur. J. Inorg. Chem.* **2008**, 129 - 137.

2007

- 104 Yu. V. Mironov, V. A. Nadolinny, D. Yu. Naumov, K. Hegetschweiler, V. E. Fedorov
A new chiral coordination polymer based on $[Fe(CN)_6]^{4-}$, Cu^{2+} cations, and (2*S*,3*S*)-1,2,3,4-tetraaminobutane: synthesis, structure, and ESR spectra, *Izvestiya Akademii Nauk. Seriya Khimicheskaya* **2007**, 437 - 440; English Translation: *Russian Chemical Bulletin, International Edition* **2007**, 56, 452 - 455.
- 103 Bernd Morgenstern, Barbara Kutzky, Christian Neis, Stefan Stucky, Kaspar Hegetschweiler, Eugenio Garribba, Giovanni Micera
Metal Binding of Polyalcohols. 8. Synthesis and Characterization of Vanadium(IV) Complexes with *cis*-Inositol in Aqueous Solution and in the Solid-State, *Inorg. Chem.* **2007**, 46, 3903 - 3915.
- 102 Michael Springborg, Kaspar Hegetschweiler
Some Continuous Geometry Transitions and the Consequences for a Transition-Metal

2006

- 101 Marie-Line Lehaire, Pascal V. Grundler, Stefan Steinhauser, Niklaus Marti, Lothar Helm, Kaspar Hegetschweiler, Roger Schibli, André E. Merbach
Water-Exchange Study Revealed Unexpected Substitution Behavior of
[(CO)₂(NO)Re(H₂O)₃]²⁺ in Aqueous Media, *Inorg. Chem.* **2006**, *45*, 4199 - 4204.
- 100 Dirk Kuppert, Peter Comba, Kaspar Hegetschweiler
The Reactivity of Hexa(*N*-methylideneimine)Co^{III} Complexes towards Nucleophiles:
Structure and Mechanism, *Eur. J. Inorg. Chem.* **2006**, 2792 - 2807.
- 99 Jens Romba, Dirk Kuppert, Bernd Morgenstern, Christian Neis, Stefan Steinhauser,
Thomas Weyhermüller, Kaspar Hegetschweiler
Facially Coordinating Cyclic Triamines, Part 3. The Coordination Chemistry of 1,4-
Diazepan-6-amine, *Eur. J. Inorg. Chem.* **2006**, 314 - 328.

2005

- 98 Attila Jancsó, Satu Mikkola, Harri Lönnberg, Kaspar Hegetschweiler, Tamás Gajda
Hydrolysis of a mRNA 5'-cap model substrate, 5',5'-ApppA by di- and trinuclear zinc(II)
complexes of a polyamino-polyol ligand, *J. Inorg. Biochem.* **2005**, *99*, 1283 - 1293.
- 97 Attila Szorcsik, Laszlo Nagy, Michelangelo Scopelliti, Andrea Deak, Lorenzo Pellerito,
Kaspar Hegetschweiler
Preparation and structural characterization of organotin(IV) complexes with ligands
containing a hetero {N} atom and a hydroxy group or hydroxy and carboxyl groups, *J.*
Organomet. Chem. **2005**, *690*, 2243 - 2253.
- 96 Yu. V. Mironov, N. G. Naumov, K. A. Brylev, O. A. Efremova, V. E. Fedorov, K.
Hegetschweiler
Chiral Coordination Polymers Based on Re Cluster Complexes, Cu²⁺ Cations, and
1,2S,3S,4-Tetraaminobutane, *Russian Journal of Coordination Chemistry* **2005**, *31*, 269 -
281.
- 95 Kaspar Hegetschweiler, André Egli, Eberhardt Herdtweck, Wolfgang A. Herrmann, Roger
Alberto, and Volker Gramlich

1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol, a Ligand with a Remarkable Versatility for Metal Ions: Part XIII. Complex Formation with Re(I) and Re(VII), *Helv. Chim. Acta* **2005**, *88*, 426 - 434.

2004

- 94 Stefan Steinhauser, Uwe Heinz, Jürgen Sander, Kaspar Hegetschweiler
Complex Formation of 2,6-bis-(2'-hydroxyphenyl)pyridine with Al^{III}, Fe^{III} and Cu^{II}, *Z. Anorg. Allg. Chem.* **2004**, *630*, 1829 - 1838.
- 93 Stefan Steinhauser, Uwe Heinz, Mark Bartholomä, Thomas Weyhermüller, Hanspeter Nick, Kaspar Hegetschweiler
Complex Formation of ICL670 and Related Ligands with Fe^{III} and Fe^{II}, *Eur. J. Inorg. Chem.* **2004**, 4177 - 4192.
- 92 S. Steinhauser, F. Bachmann, M. Hazenkamp, U. Heinz, J. Dannacher, K. Hegetschweiler
Crystal structure of *N,N,N*-tris[2-(salicylideneaminato)ethyl]amine-manganese(III), Mn[N(C₉H₉NO)₃], *Z. Kristallogr. NCS* **2004**, *219*, 325 - 326.
- 91 Kaspar Hegetschweiler, Bernd Morgenstern, Jon Zubieta, Pamela J. Hagerman, Nicola Lima, Roberta Sessoli, Federico Totti
Strong Ferromagnetic Interactions in [V₈O₁₄(H₂taci)₂]: An Unprecedented Large Spin Ground State for a Vanadyl Cluster, *Angew. Chem. Int. Ed.* **2004**, *43*, 3436 - 3439;
Angew. Chem. **2004**, *116*, 3518 - 3521.
- 90 Kaspar Hegetschweiler, Dirk Kuppert, Jochen Huppert, Michal Straka, Martin Kaupp
Spin-Orbit-Induced Anomalous pH-Dependence in ¹H NMR Spectra of Co^{III} Amine Complexes: A Diagnostic Tool for Structure Elucidation, *J. Am. Chem. Soc.* **2004**, *126*, 6728 - 6738.
- 89 Bernd Morgenstern, Stefan Steinhauser, Kaspar Hegetschweiler, Eugenio Carriaba, Giovanni Micera, Daniele Sanna, László Nagy
Complex Formation of Vanadium(IV) with 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol and Related Ligands, *Inorg. Chem.* **2004**, *43*, 3116 - 3126.
- 88 Ulrich Prinz, Ulrich Koelle, Stefan Ulrich, André E. Merbach, Oliver Maas, Kaspar Hegetschweiler
The Organometallic *fac*-[(CO)₃Mn(H₂O)₃]⁺ Aquaion. Base-Hydrolysis and Kinetics of H₂O-Substitution, *Inorg. Chem.* **2004**, *43*, 2387 - 2391.

- 87 Yuri V. Mironov, Nikolai G. Naumov, Konstantin A. Brylev, Olga A. Efremova, Vladimir E. Fedorov, Kaspar Hegetschweiler
Linear Primary Polyamines as Building Blocks for Coordination Polymers, Part 5. Rhenium–Chalcogenide–Cyano Clusters, Cu²⁺ Ions, and 1,2,3,4-Tetraaminobutane as Molecular Building Blocks for Chiral Coordination Polymers, *Angew. Chem. Int. Ed.* **2004**, *43*, 1297 - 1300; *Angew. Chem.* **2004**, *116*, 1317 - 1321.

2003

- 86 Attila Jancsó, Satu Mikkola, Harri Lönnberg, Kaspar Hegetschweiler, Tamás Gajda
Phosphodiester Cleavage of Ribonucleoside Monophosphates and Polyribonucleotides by Homo- and Heterodinuclear Metal Complexes of a Cyclohexane-based Polyamino-Polyol Ligand, *Chem. Eur. J.* **2003**, *9*, 5404 - 5415.
- 85 Bernadette Salignac, Pascal V. Grundler, Sonia Cayemittes, Urban Frey, Rosario Scopelliti, André E. Merbach, Roman Hedinger, Kaspar Hegetschweiler, Roger Alberto, Ulrich Prinz, Gerhard Raabe, Ulrich Kölle, Syd Hall
The Reactivity of the Organometallic *fac*-[(CO)₃Re^I(H₂O)₃]⁺ Aquaion. Kinetic and Thermodynamic Properties of H₂O Substitution, *Inorg. Chem.* **2003**, *42*, 3516 - 3526.
- 84 Kaspar Hegetschweiler, Oliver Maas, Anja Zimmer, Rodney J. Geue, Alan M. Sargeson, Jeffrey Harmer, Arthur Schweiger, Irmgard Buder, Günter Schwitzgebel, Vera Reiland, Walter Frank
The Coordination Chemistry of the Pentadentate 2,2,6,6-Tetrakis(aminomethyl)-4-azaheptane (ditame), *Eur. J. Inorg. Chem.* **2003**, 1340 - 1354.

2002

- 83 Kaspar Hegetschweiler, Robert C. Finn, Randy S. Rarig Jr., Jürgen Sander, Stefan Steinhauser, Michael Wörle, Jon Zubieta
Surface complexation of [Nb₆O₁₉]⁸⁻ with Ni^{II}: Solvothermal synthesis and X-ray structural characterization of two novel heterometallic Ni-Nb-polyoxometalates, *Inorg. Chim. Acta* **2002**, *337*, 39 - 47.
- 82 J. Romba, S. Steinhauser, K. Hegetschweiler
Crystal structure of 6-azido-1,4-bis(tosyl)-1,4-diazepane-DMSO (1:1), C₁₉H₂₃N₅O₄S₂·C₂H₆OS, *Z. Kristallogr. NCS* **2002**, *217*, 135 - 136.

- 81 J. Romba, S. Steinhäuser, K. Hegetschweiler
Crystal structure of 1,4-bis(tosyl)-1,4-diazacycloheptane-6-amine, C₁₉H₂₅N₃O₄S₂, *Z. Kristallogr. NCS* **2002**, 217, 133 - 134.
- 80 Markus Niederberger, Frank Krumeich, Kaspar Hegetschweiler, Reinhard Nesper
An Iron Polyolate Complex as a Precursor for the Controlled Synthesis of Monodispersed Iron Oxide Colloids, *Chem. Mater.* **2002**, 14, 78 - 82.

2001

- 79 Jürgen Sander, Kaspar Hegetschweiler, Bernd Morgenstern, Alice Keller, Walter Amrein, Thomas Weyhermüller, Iris Müller
T-Symmetrical Icosahedra: A New Type of Chirality in Metal Complexes, *Angew. Chem.* **2001**, 113, 4308 - 4310; *Angew. Chem. Int. Ed.* **2001**, 40, 4180 - 4182.
- 78 Dirk Kuppert, Jürgen Sander, Christian Roth, Michael Wörle, Thomas Weyhermüller, Guido J. Reiss, Uwe Schilde, Iris Müller, Kaspar Hegetschweiler
Facially Coordinating Cyclic Triamines, Part 2. The Coordination Chemistry of *cis*-3,4-Diaminopyrrolidine and Related Polyamines, *Eur. J. Inorg. Chem.* **2001**, 2525 - 2542.
- 77 Bernd Morgenstern, Jürgen Sander, Volker Huch, Kaspar Hegetschweiler
Complexation of a Heptanuclear Polyoxotantalate Anion with K⁺: Formation of a Supramolecular [K₆-(μ-OH₂)₆-(OH₂)₈]⁶⁺ Ring Structure, *Inorg. Chem.* **2001**, 40, 5307 - 5310.
- 76 Tamás Gajda, Yvonne Düpre, Ibolya Török, Jeffrey Harmer, Arthur Schweiger, Jürgen Sander, Dirk Kuppert, Kaspar Hegetschweiler
Highly Efficient Phosphodiester Hydrolysis Promoted by a Dinuclear Copper(II) Complex, *Inorg. Chem.* **2001**, 40, 4918 - 4927.
- 75 Michael Weber, Bernd Morgenstern, Kaspar Hegetschweiler, Helmut W. Schmalke
1,3-Diaxial Repulsion vs. π-Delocalization in the 7-Amino-2,4-diazabicyclo[3.3.1]nonan-3-one Skeleton, *Helv. Chim. Acta* **2001**, 84, 571 - 578.
- 74 Anja Zimmer, Dirk Kuppert, Thomas Weyhermüller, Iris Müller, Kaspar Hegetschweiler
Linear Primary Polyamines as Building Blocks for Coordination Polymers, Part 3, Complex Formation of Ni^{II}, Cu^{II}, Pd^{II} and Co^{III} with 1,2,3,4-Butanetetramine *Chem. Eur. J.* **2001**, 7, 917 - 931.

- 73 A. Ries, J. Sander, K. Hegetschweiler
Crystal structure of 2,3-O-ethandiyl-5,6-O-ditosyl-L-ascorbic acid, $C_{22}H_{22}O_{10}S_2$, *Z. Kristallogr. NCS* **2001**, 216, 579 - 580.
- 72 A. Ries, J. Sander, K. Hegetschweiler
Crystal structure of 2,3-O-dimethyl-5,6-O-isopropylidene-L-ascorbic acid, $C_{11}H_{16}O_6$, *Z. Kristallogr. NCS* **2001**, 216, 577 - 578.
- 71 J. Pauly, M. Winter, K. Hegetschweiler, M. F. Hazenkamp, F. Bachmann, J. Dannacher
Crystal structure of acetato-aqua-[*N,N'*-bis(4-methoxy-salicylidene)ethane-1,2-diaminato]-manganese(III) hydrate, $C_{20}H_{23}MnN_2O_7 \cdot H_2O$, *Z. Kristallogr. NCS* **2001**, 216, 477 - 478.
- 70 U. Heinz, J. Sander, K. Hegetschweiler
Crystal structure of 2-[5-(2-hydroxyphenyl)-1-phenyl-1*H*-1,2,4-triazol-3-yl]phenol, $C_{20}H_{15}N_3O_2$, *Z. Kristallogr. NCS* **2001**, 216, 113 - 114.
- 69 D. Kuppert, C. Roth, J. Sander, K. Hegetschweiler
Crystal structure of *rac*-3-ammoniopyrrolidinium perchlorate, $C_4H_{12}Cl_2N_2O_8$, *Z. Kristallogr. NCS* **2001**, 216, 111 - 112.
- 68 M. Winter, J. Sander, K. Hegetschweiler
Crystal structure of 1,3,5-tris{[(*E*)-(2-hydroxyphenyl)methylidene]amino}-1,3,5-trideoxy-*cis*-inositolato(3-)-cobalt(III) undecanehydrate, $[Co(H_3thici)] \cdot 11H_2O$, *Z. Kristallogr. NCS* **2001**, 216, 108 - 110.
- 67 J. Sander, V. Huch, M. Veith, K. Hegetschweiler
Crystal structure of 1,3,5-tris(benzylamino)-1,3,5-trideoxy-*cis*-inositol-methanol(2/1), $(C_6H_5CH_2NH)_3C_6H_9(OH)_3 \cdot 0.5CH_3OH$, *Z. Kristallogr. NCS* **2001**, 216, 105 - 107.

2000

- 66 M.N. Sokolov, D.N. Dybtsev, A.V. Virovets, K. Hegetschweiler, V.P. Fedin
Synthesis and crystal structure of a supramolecular adduct of the cubane cluster $[ClPdMo_3Se_4(H_2O)_7Cl_2]^+$ with the macrocyclic cavitand cucurbituril, *Russ. Chem. Bull.*, **2000**, 49, 1877 - 1881.
- 65 María J. Mayor-López, Jacques Weber, Hans P. Lüthi, Kaspar Hegetschweiler

SCO Trimers as High-energy Materials? A Density Functional Study, *J. Mol. Model.* **2000**, *6*, 55 - 64.

- 64 Jörg W. Pauly, Jürgen Sander, Dirk Kuppert, Manuela Winter, Guido J. Reiss, Fabio Zürcher, Rudolf Hoffmann, Thomas F. Fässler, Kaspar Hegetschweiler
Facially Coordinating Cyclic Triamines Part 1. The Coordination Chemistry of *cis*-3,5-Diaminopiperidine and Substituted Derivatives, *Chem. Eur. J.* **2000**, *6*, 2830 - 2846.
- 63 Vladimir P. Fedin, Alexander V. Virovets, Danil N. Dybtsev, Olga A. Gerasko, Kaspar Hegetschweiler, Mark R.J. Elsegood, William Clegg
A supramolecular approach to the crystallization of chalcogenido bridged cluster aqua ions: synthesis and structure of a cucurbituril adduct of the di- μ -disulfido Nb(IV)₂ aqua ion [Nb₂(μ -S₂)₂(H₂O)₈]⁴⁺, *Inorg. Chim. Acta* **2000**, *304*, 301 - 304.
- 62 J. Sander, K. Hegetschweiler
Crystal structure of 1,3,5-trideoxy-1,3,5-tris((2-pyridylmethyl)amino)-*cis*-inositolcobalt(III) bromide tetrahydrate, [Co(pmaci)]Br₃·4H₂O, *Z. Kristallogr. NCS* **2000**, *215*, 186 - 188.
- 61 G. Gencheva, P. R. Bontchev, J. Sander, K. Hegetschweiler
Crystal structure of tetrakis(1,3,5-triammonio-1,3,5-trideoxy-*cis*-inositol) decachloride hexachloroplatinate hexahydrate, (H₃taci)₄[PtCl₆]Cl₁₀·6H₂O, two different forms of (H₃taci)³⁺ in one crystal, *Z. Kristallogr. NCS* **2000**, *215*, 183 - 185.
- 60 Guido J. Reiß, Anja Zimmer, Kaspar Hegetschweiler
Linear primary polyamines as building blocks for coordination polymers. Part 2. Protonation products of pentaaminopentane as novel building blocks for hydrogen-bonded networks, *Acta Crystallogr. Section C* **2000**, *C56*, 284 - 288.

1999

- 59 Uwe Heinz, Kaspar Hegetschweiler, Pierre Acklin, Bernard Faller, René Lattmann, Hans Peter Schnebli
4-[3,5-Bis(2-hydroxyphenyl)-1,2,4-triazol-1-yl]-benzoic Acid: A Novel Efficient and Selective Iron(III) Complexing Agent, *Angew. Chem.* **1999**, *111*, 2733 - 2736; *Angew. Chem. Int. Ed. Engl.* **1999**, *38*, 2568 - 2570.
- 58 Y. Düpre, E. Bartscherer, O. Maas, J. Sander, V. Huch, K. Hegetschweiler
Crystal structure of diaqua[tris(2-aminoethyl)amine]cobalt(III) tris(trifluoromethanesulfonate), [Co(tren)(OH₂)₂](CF₃SO₃)₃, *Z. Kristallogr. NCS* **1999**, *214*,

407 - 409.

- 57 Y. Düpre, E. Bartscherer, O. Maas, J. Sander, K. Hegetschweiler
Crystal structure of carbonato[tris(2-aminoethyl)amine]cobalt(III) chloride dihydrate,
[Co(tren)CO₃]Cl·2H₂O, *Z. Kristallogr. NCS* **1999**, 214, 405 - 406.
- 56 Michael Weber, Dirk Kuppert, Kaspar Hegetschweiler, Volker Gramlich
O-Alkylated Derivatives of 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol: Triamine Ligands
with Unexpectedly High Affinity toward Divalent Transition- and d¹⁰-Metal Ions, *Inorg.*
Chem. **1999**, 38, 859 - 868.
- 55 Guido J. Reiß, Kaspar Hegetschweiler, Jürgen Sander
1,3-Diamino-5-ammonio-1,3,5-trideoxy-*cis*-inositol iodide, *Acta Crystallogr. Section C*
1999, C55, 123 - 126.
- 54 Roman Hedinger, Thomas Kradolfer, Kaspar Hegetschweiler, Michael Wörle, Klaus-
Hermann Dahmen
The Deposition of Pb and PbO on Various Substrates by MOCVD Using a New Trinuclear
Lead Precursor, *Chem. Vap. Deposition* **1999**, 5, 29 - 35.

1998

- 53 O. Geras'ko, V. Fedorov, V. Logvinenko, K. Hegetschweiler, M. R. J. Elsegood, U-Hyon
Paek
Thermal Properties of the Aquadimethylsulfoxide Complexes [Ln(DMSO)_n(H₂O)_m]-
[Mo₃S₇Br₇] where Ln = Pr, Nd, Eu, Tm, *J. Therm. Anal.* **1998**, 53, 411 - 420.
- 52 Anja Zimmer, Iris Müller, Guido J. Reiß, Andrea Caneschi, Dante Gatteschi, Kaspar
Hegetschweiler
Linear Primary Polyamines as Building Blocks for Coordination Polymers. 1. Ligand
Synthesis and Metal Complex Formation of 1,2,3-Triaminopropane, *Eur. J. Inorg. Chem.*
1998, 2079 - 2086.
- 51 Roman Hedinger, Michele Ghisletta, Kaspar Hegetschweiler, Eva Tóth, André E. Merbach,
Roberta Sessoli, Dante Gatteschi, Volker Gramlich
Trinuclear Lanthanoid Complexes of 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol with a
Unique, Sandwich-Type Cage Structure, *Inorg. Chem.* **1998**, 37, 6698 - 6705.
- 50 Kaspar Hegetschweiler, Michael Weber, Volker Huch, Rodney J. Geue, A. David Rae,

- Anthony C. Willis, Alan M. Sargeson
1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol and *all-cis*-2,4,6-Trimethoxycyclohexane-1,3,5-triamine as Building Blocks for New Multidentate and Macrocyclic Ligands, *Inorg. Chem.* **1998**, *37*, 6136 - 6146.
- 49 Andreas Kramer, Roger Alberto, André Egli, Ilse Novak-Hofer, Kaspar Hegetschweiler, Ulrich Abram, Paul V. Bernhardt, P. August Schubiger
Derivatives of 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol as Versatile Pentadentate Ligands for Protein Labeling with Re-186/188. Prelabeling, Biodistribution, and X-ray Structural Studies, *Bioconjugate Chem.* **1998**, *9*, 691 - 702.
- 48 Éva Tóth, Lothar Helm, André E. Merbach, Roman Hedinger, Kaspar Hegetschweiler, András Jánossy
Structure and Dynamics of a Trinuclear Gadolinium(III) Complex: The Effect of Intramolecular Electron Spin Relaxation on Its Proton Relaxivity, *Inorg. Chem.* **1998**, *37*, 4104 - 4113.
- 47 Maria J. Mayor-Lopez, Jacques Weber, Kaspar Hegetschweiler, Marc D. Meienberger, Felix Joho, Stefano Leoni, Reinhard Nesper, Guido J. Reiß, Walter Frank, Boris A. Kolesov, Vladimir P. Fedin, Vladimir E. Fedorov
Structure and Reactivity of $[\text{Mo}_3-\mu_3\text{S}-(\mu\text{S}_2)_3]^{4+}$ Complexes. Quantum Chemical Calculations, X-ray Structural Characterization, and Raman Spectroscopic Measurements, *Inorg. Chem.* **1998**, *37*, 2633 - 2644.
- 46 Michele Ghisletta, Lorenza Hausherr-Primo, Krisztina Gajda-Schranz, Gábor Machula, László Nagy, Helmut W. Schmalte, Greti Rihs, Frank Endres, Kaspar Hegetschweiler
Structure, Stability and Redox Properties of Mn^{II} , Fe^{II} , Co^{II} , and Co^{III} Complexes with 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol, *Inorg. Chem.* **1998**, *37*, 997 - 1008.
- 45 Berthold Fischer, Erich Dubler, Marc Meienberger, Kaspar Hegetschweiler
Molybdenum complexes of the anticancer drug 6-mercaptopurine, *Inorg. Chim. Acta* **1998**, *279*, 136 - 143.
- 44 Guido J. Reiß, Walter Frank, Kaspar Hegetschweiler, Dirk Kuppert
Bis(1,3,5-triamino-1,3,5-trideoxy-*cis*-inositol- κ^3N)copper(II) Dichloride Tetrahydrate, *Acta Crystallogr. Section C* **1998**, *54*, 614 - 616.
- 43 M. Sokolov, O. Gerasko, A. Virovets, V. Fedorov, K. Hegetschweiler
Synthesis of a new series of Nb(IV) β -diketonates with the $\text{Nb}_2\text{S}_4^{4+}$ core: crystal structure of $\text{Nb}_2\text{S}_4(\text{CF}_3\text{COCHCOCH}_3)_4$, *Inorg. Chim. Acta* **1998**, *271*, 222 - 227.

1997

- 42 Kaspar Hegetschweiler, Thomas Raber, Guido J. Reiß, Walter Frank, Michael Wörle, Antonio Currao, Reinhard Nesper, Thomas Kradoľfer
A Polyoxo-Polyolato Complex of Tantalum(V) with a Double Adamantane-Like $[\text{Ta}_7\text{O}_{12}]^{11+}$ -Core, *Angew. Chem.* **1997**, *109*, 2052 - 2054; *Angew. Chem. Int. Ed. Engl.* **1997**, *36*, 1964 - 1966.
- 41 Kaspar Hegetschweiler, Michael Weber, Volker Huch, Michael Veith, Helmut W. Schmalle, Anthony Linden, Rodney J. Geue, Peter Osvath, Alan M. Sargeson, Anthony C. Willis, Werner Angst
Selective Blocking of Coordination Modes in 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol: Enforced Formation of a Low Spin Iron(III) Hexaamine Complex, *Inorg. Chem.* **1997**, *36*, 4121 - 4127.
- 40 André Egli, Kaspar Hegetschweiler, Roger Alberto, Ulrich Abram, Roger Schibli, Roman Hedinger, Volker Gramlich, Reinhard Kissner, P. August Schubiger
Hydrolysis of the Organometallic Aqua Ion *fac*-Triaquatricarbonylrhenium(I). Mechanism, pK_a , and Formation Constants of the Polynuclear Hydrolysis Products, *Organometallics* **1997**, *16*, 1833 - 1840.

1996

- 39 Andrea Cornia, Dante Gatteschi, Kaspar Hegetschweiler, Lorenza Hausherr-Primo, Volker Gramlich
Metal Binding of Polyalcohols. 4. Structure and Magnetism of the Hexanuclear, μ_6 -Oxo-Centered $[\text{OFe}_6(\text{H}_3\text{thme})_3(\text{OCH}_3)_3\text{Cl}_6]^{2-}$ (thme = 1,1,1-Tris(hydroxymethyl)ethane), *Inorg. Chem.* **1996**, *35*, 4414 - 4419.
- 38 Kaspar Hegetschweiler, Michael Wörle, Marc D. Meienberger, Reinhard Nesper, Helmut W. Schmalle, Robert D. Hancock
Structural studies on $[\text{Mo}_3\text{S}_4]^{4+}$ and $[\text{Mo}_3\text{S}_4\text{Cu}]^{4+}$ complexes with tridentate ligands providing various N_xO_y ($x+y = 3$) donor sets, *Inorg. Chim. Acta* **1996**, *250*, 35 - 47.
- 37 Helmut W. Schmalle, Kaspar Hegetschweiler
Hydrogen Bonding *versus* van der Waals Repulsion in 1,3,5-Trideoxy-1,3,5-tris(trimethylammonio)-*cis*-inositol Triiodide Sesquihydrate, $\text{C}_{15}\text{H}_{36}\text{N}_3\text{O}_3^{3+} \cdot 3\text{I}^- \cdot 1.5\text{H}_2\text{O}$ *Acta*

1995

- 36 V. E. Fedorov, O. A. Gerasko, Yu. V. Mironov, K. Hegetschweiler, R. Stoop, J. Gallus, V. Gramlich
Aquadimethylsulfoxide complexes of rare earth elements Pr, Eu, Tm with cluster anion $[\text{Mo}_3\text{S}_7\text{Br}_7]^{3-}$, *Russ. J. Struct. Chem.* **1995**, 36, 1046 - 1069.
- 35 B. Fischer, A. Schäfer, K. Hegetschweiler, M. Viscontini
Iron and Terahydropterin Complex with 1,3,5-Triamino-2,4,6-trihydroxy-cyclohexane as Ligand, *Pteridines* **1995**, 6, 87 - 89.
- 34 Kaspar Hegetschweiler, Lorenza Hausherr-Primo, Willem H. Koppenol, Volker Gramlich, Léon Odier, Wolfram Meyer, Heiner Winkler, Alfred X. Trautwein
Ein neuartiger sechskerniger Fe^{III} -*cis*-Inositolato-Komplex als Modell für Fe^{III} -Polyol-Wechselwirkungen in wässriger Lösung, *Angew. Chem.* **1995**, 107, 2421 - 2423; *Angew. Chem. Int. Ed. Engl.* **1995**, 34, 2242 - 2243.
- 33 Helene Felber, Kaspar Hegetschweiler, Markus Müller, René Odermatt, Bruno Wampfler
Quantitative Bestimmung von Phosphonaten in Waschmitteln, *Chimia* **1995**, 49, 179 - 181.
- 32 Kaspar Hegetschweiler, Michele Ghisletta, Lorenza Hausherr-Primo, Thomas Kradohler, Helmut W. Schmalke, Volker Gramlich
Has the Affinity of High Spin Fe^{III} for sp^3 Nitrogen Donors been Underestimated? *Inorg. Chem.* **1995**, 34, 1950 - 1953.
- 31 Kaspar Hegetschweiler, Thomas Kradohler, Volker Gramlich, Robert D. Hancock
The Design of Selective Chelating Agents: 1,3,5-Trideoxy-1,3,5-tris-(dimethylamino)-*cis*-inositol, a Powerful Ligand for Hard and Highly Charged Metal Ions, *Chem. Eur. J.* **1995**, 1, 74 - 88.
- 30 H. Winkler, W. Meyer, A. X. Trautwein, K. Hegetschweiler, H.-F. Nolting
EXAFS studies on Iron(III) sorbitol complexes, *Physica B* **1995**, 208&209, 733 - 734.

1994

- 29 V. P. Fedin, A. Müller, K. Hegetschweiler, M. N. Sokolov, V. E. Fedorov
Evidences for the Substitution of Sulfur for Selenium in Niobium-Selenium and Tungsten-Selenium Cluster Complexes and Characterization of Mixed Thioselenium Complexes by FAB Mass Spectrometry, *Russ. J. Inorg. Chem.* **1994**, 39, 1591 - 1595.
- 28 Roger Alberto, André Egli, Ulrich Abram, Kaspar Hegetschweiler, Volker Gramlich, P. August Schubiger
Synthesis and Reactivity of $[\text{NEt}_4]_2[\text{ReBr}_3(\text{CO})_3]$. Formation and Structural Characterization of the Clusters $[\text{NEt}_4][\text{Re}_3(\mu_3\text{-OH})(\mu\text{-OH})_3(\text{CO})_9]$ and $[\text{NEt}_4][\text{Re}_2(\mu\text{-OH})_3(\text{CO})_6]$ by Alkaline Titration, *J. Chem. Soc., Dalton Trans.* **1994**, 2815 - 2820.
- 27 Maxim Sokolov, Alexandr Virovets, Vladimir Nadolinnyi, Kaspar Hegetschweiler, Vladimir Fedin, Nina Podberezskaya, Vladimir Fedorov
 $\text{Nb}_2\text{S}_4^{4+}$ Complexes with 1,1-Dithioacid Ligands, *Inorg. Chem.* **1994**, 33, 3503 - 3509.
- 26 Lorenza Hausherr-Primo, Kaspar Hegetschweiler, Heinz Rügger, Léon Odier, Robert D. Hancock, Helmut W. Schmalle, Volker Gramlich
Metal Binding of Polyalcohols. Part 2. (*all-cis*-1,3,5-Triaminocyclohexane)-cobalt(III), a Facially Co-ordinating, Diamagnetic Probe exemplified by its Complex Formation with *cis*-Inositol, *J. Chem. Soc., Dalton Trans.* **1994**, 1689 - 1701.
- 25 Andrea Cornia, Dante Gatteschi, Kaspar Hegetschweiler
Magnetic Exchange Coupling in the $\text{Fe}^{\text{III}}_6(\mu_6\text{-O})$ Core: a Hint to the Magnetic Properties of Higher-Nuclearity Spin Clusters, *Inorg. Chem.* **1994**, 33, 1559 - 1561.

1993

- 24 Kaspar Hegetschweiler, Robert D. Hancock, Michele Ghisletta, Thomas Kradolfer, Volker Gramlich, Helmut W. Schmalle
1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol, a Ligand with a Remarkable Versatility for Metal Ions. 5. Complex Formation with Magnesium(II), Calcium(II), Strontium(II), Barium(II), and Cadmium(II), *Inorg. Chem.* **1993**, 32, 5273 - 5284.
- 23 Kaspar Hegetschweiler, Michele Ghisletta, Thomas F. Fässler, Reinhard Nesper
Durch Hydrolyse zu einem Komplex mit einer zentralen, oktaedrischen $(\mu_6\text{-O})\text{In}_6$ -Einheit, *Angew. Chem.*, **1993**, 105, 1514 - 1516; *Angew. Chem., Int. Ed. Engl.* **1993**, 32, 1426 - 1428.
- 22 Robert D. Hancock, Kaspar Hegetschweiler

A Molecular Mechanics Study of the Complexation of Metal Ions by Inositols, *J. Chem. Soc., Dalton Trans.* **1993**, 2137 - 2140.

- 21 Marc D. Meienberger, Kaspar Hegetschweiler, Heinz Rügger, Volker Gramlich
The reactivity of complexes containing the $[\text{Mo}_3(\mu_3\text{S})(\mu\text{S}_2)_3]^{4+}$ core. Ligand substitution, sulfur elimination and sulfide binding, *Inorg. Chim. Acta* **1993**, 213, 157 - 169.
- 20 Kaspar Hegetschweiler, Michele Ghisletta, Volker Gramlich
1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol, a New Ligand with a Remarkable Versatility for Metal Ions. 4. Preparation, Characterization and X-ray Structure of the Trinuclear Lead(II) and Bismuth(III) Complexes, *Inorg. Chem.* **1993**, 32, 2699 - 2704.
- 19 Kaspar Hegetschweiler, Michele Ghisletta, Thomas F. Fässler, Reinhard Nesper, Helmut W. Schmalte, Greti Rihs
1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol, a New Ligand with a Remarkable Versatility for Metal Ions. 3. Preparation and Characterization of the Aluminum(III), Gallium(III), and Thallium(III) Complexes, *Inorg. Chem.* **1993**, 32, 2032 - 2041.
- 18 M. N. Sokolov, V. P. Fedin, A. Müller, K. Hegetschweiler, W. Amrein, V. E. Fedorov
Characterization of Tungsten Compounds Containing Cluster Fragments $[\text{W}_3(\mu_3\text{-Y}(\mu\text{-Y})_3)]^{4+}$ (Y = S, Se) by Mass Spectrometry, *Russ. J. Inorg. Chem.* **1993**, 38, 828 - 833.

1992

- 17 Achim Müller, Vladimir Fedin, Kaspar Hegetschweiler, Walter Amrein
Characterization of Amorphous Substances by Studying Isotopically Labelled Compounds with FAB-MS: Evidence for Extrusion of Triangular Mo_3^{IV} Clusters from a Mixture of $^{92}\text{MoS}_3$ and $^{100}\text{MoS}_3$ by Reaction with OH^- , *J. Chem. Soc. Chem. Commun.* **1992**, 1795 - 1796.
- 16 Thomas Kradolfer, Kaspar Hegetschweiler
1,3,5-Trideoxy-1,3,5-tris(dimethylamino)-*cis*-inositol, an Efficient Ligand for Hard Trivalent Metal Ions. Determination of the Stability Constants of the Fe^{III} , Al^{III} , and Cu^{II} Complexes in Aqueous Solution, *Helv. Chim. Acta* **1992**, 75, 2243 - 2251.
- 15 Michele Ghisletta, Hans-Peter Jalett, Tobias Gerfin, Volker Gramlich, Kaspar Hegetschweiler
1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol, a New Ligand with a Remarkable Versatility for Metal Ions. Part 2: Safe and Efficient Ligand Preparation and Structure of the Free Ligand

and the Co^{III} Complex, *Helv. Chim. Acta* **1992**, *75*, 2233 - 2242.

- 14 Kaspar Hegetschweiler, André Egli, Roger Alberto, Helmut W. Schmalte
1,3,5-Trideoxy-1,3,5-tris((2-hydroxybenzyl)amino)-*cis*-inositol, a Novel Multidentate Ligand Providing Various N,O Coordination Sites. Structure of the Rhenium(V) Complex, *Inorg. Chem.* **1992**, *31*, 4027 - 4028.
- 13 Kaspar Hegetschweiler, Pablo Caravatti, Vladimir P. Fedin, Maxim N. Sokolov
Collision-Induced Decomposition (CID) of Triangular [Mo₃S_{7-x}Se_x]⁴⁺ Complexes (x = 0, 3, 7). A Liquid SIMS and FTMS/MS Study of [Mo₃S_{7-x}Se_x(Et₂NCS₂)₃]⁺, *Helv. Chim. Acta* **1992**, *75*, 1659 - 1665.
- 12 Kaspar Hegetschweiler, Volker Gramlich, Michele Ghisletta, Heinz Samaras
1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol, a New Ligand with a Remarkable Versatility for Metal Ions. 1. Preparation, X-ray Structure, and Stability of the Ni(II), Cu(II), and Zn(II) Complexes, *Inorg. Chem.* **1992**, *31*, 2341 - 2346.
- 11 Kaspar Hegetschweiler, Helmut W. Schmalte, Hans M. Streit, Volker Gramlich, Hans-Ulrich Hund, Isidor Erni
A Simple, Efficient Route to a μ₆-Oxo-Centered Hexanuclear Iron(III) Alkoxide Complex: Preparation and Structure of Na₂Fe₆O(OCH₃)₁₈·6CH₃OH, *Inorg. Chem.* **1992**, *31*, 1299 - 1302.

1991

- 10 Kaspar Hegetschweiler, Thomas Keller, Martin Bäumle, Greti Rihs, Walter Schneider
Electrochemical Reduction of Complexes Containing the [Mo₃S(S₂)₃]⁴⁺ Core in Aqueous Media and the Structure of Bis(triethylammonium) Tris(2-mercaptobenzoato)tris(μ-disulfido)(μ₃-thio)-triangulo-trimolybdate(IV), *Inorg. Chem.* **1991**, *30*, 4342 - 4347.
- 9 Heinrich Zimmermann, Kaspar Hegetschweiler, Thomas Keller, Volker Gramlich, Helmut W. Schmalte, Walter Petter, Walter Schneider
Preparation of Complexes Containing the [Mo₃S(S₂)₃]⁴⁺ Core and Structure of Tris-(diethyldithiocarbamato)tris(μ-disulfido)(μ₃-thio)triangulo-trimolybdenum(IV) Iodide, *Inorg. Chem.* **1991**, *30*, 4336 - 4341.
- 8 Hans Walter Rich, Kaspar Hegetschweiler, Hans Max Streit, Isidor Erni, Walter Schneider
Mononuclear, oligonuclear and polynuclear iron(III) complexes with polyalcohols formed in alkaline aqueous media, *Inorg. Chim. Acta* **1991**, *187*, 9 - 15.

- 7 Helmut W. Schmalle, Kaspar Hegetschweiler, Michele Ghisletta
Two Isomeric Chromium(III) Complexes with 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol in One Structure: $[\text{Cr}^{\text{III}}(\text{C}_6\text{H}_{14}\text{N}_3\text{O}_3)(\text{C}_6\text{H}_{15}\text{N}_3\text{O}_3)][\text{Cr}^{\text{III}}(\text{C}_6\text{H}_{15}\text{N}_3\text{O}_3)_2]_2(\text{SO}_4)_4 \cdot 30\text{H}_2\text{O}$, *Acta Crystallogr.* **1991**, C47, 2047 - 2052.
- 6 Kaspar Hegetschweiler, Thomas Keller, Walter Amrein, Walter Schneider
Identification and Characterization of Trinuclear Molybdenum-Sulfur Clusters by Fast Atom Bombardment (FAB) Mass Spectrometry, *Inorg. Chem.* **1991**, 30, 873 - 876.

1990

- 5 Kaspar Hegetschweiler, Helmut Schmalle, Hans M. Streit, Walter Schneider
Synthesis and Structure of a Novel Hexanuclear Iron(III) Complex Containing Six Terminal and Twelve Bridging Alkoxo Groups and One μ_6 -Oxo Bridge, *Inorg. Chem.* **1990**, 29, 3625 - 3627.
- 4 Kaspar Hegetschweiler, Thomas Keller, Heinrich Zimmermann, Walter Schneider, Helmut Schmalle, Erich Dubler
A New Synthetic Pathway for Tris- μ -disulfido- μ_3 -thio-triangulo-trimolybdenum(IV) complexes: Preparation, Characterization and Structure of $[\text{Mo}_3\text{S}(\text{S}_2)_3(\text{OOC-CHS-CH}_2\text{-COOH})_3]^{2-}$, *Inorg. Chim. Acta* **1990**, 169, 235 - 243.
- 3 Kaspar Hegetschweiler, Isidor Erni, Walter Schneider, Helmut Schmalle
Preparation, Characterization, and Structure of N-Methylated Derivatives of 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol: Polyalcohols with Unusual Acidity, *Helv. Chim. Acta* **1990**, 73, 97 - 105.

1987

- 2 Kaspar Hegetschweiler, Paul Saltman, Claudio Dalvit, Peter E. Wright
Kinetics and Mechanism of the Oxidation of Myoglobin by Fe(III) and Cu(II) Complexes, *Biochim. Biophys. Acta* **1987**, 912, 384 - 397.

1986

- 1 Kaspar Hegetschweiler, Paul Saltman

Interaction of Copper(II) with N-(2-Hydroxyethyl)piperazine-N'-ethanesulfonic Acid (HEPPES), *Inorg. Chem.* **1986**, *25*, 107 - 109.

2. Reviews

2 Kaspar Hegetschweiler

A rigid, cyclohexane-based polyamino-polyalcohol as a versatile building block for tailored chelating agents, *Chem. Soc. Rev.* **1999**, *28*, 239 - 249.

1 Kaspar Hegetschweiler

Polyalcohols and Polyaminoalcohols as selective receptors for metal ions, *Bol. Soc. Chil. Quim.* **1997**, *42*, 257 - 279.

3. Patents

5 F. Bachmann, J. Dannacher, G. Schlingloff, M. Hazenkamp, G. Hänsler, K.

Hegetschweiler, U. Heinz, Use of Metal Complex Compounds as Oxidation Catalysts, WO 03/053986 03/053986 A1. *Chem. Abstr.* **2003**, *139*, 87009.

4 J. Dannacher, M. Hazenkamp, G. Schlingloff, F. Bachmann, K. Hegetschweiler, J. W.

Pauly, Washing and cleaning of textiles with compositions containing 3,5-diaminopiperidines as peroxide decomposition catalysts, WO 2000026332. *Chem. Abstr.* **2000**, *132*, 336140.

3 Léon Odier, Lorenza Hausherr-Primo, Kaspar Hegetschweiler

Synthesis of trivalent metal complexes with a polyol such as *cis*-inositol for anemia treatment, WO 9532978. *Chem. Abstr.* **1996**, *124*, 233015c.

2 Isidor Erni, Walter Schneider, Kaspar Hegetschweiler, Peter Geisser

Verwendung der Komplexe radioaktiver Metallionen mit *all-cis*-1,3,5-Triamino-2,4,6-cyclohexantriol und seinen Derivaten für röntgendiagnostische Zwecke und in der Tumorthherapie sowie zur Herstellung von Mitteln für röntgendiagnostische Zwecke und für die Tumorthherapie, Deutsche Offenlegungsschrift DE 40 28 139, 1992. *Chem. Abstr.* **1992**, *117*, 107441f.

1 Walter Schneider, Isidor Erni, Kaspar Hegetschweiler

all-cis-1,3,5-Triamino-2,4,6-cyclohexanetriol-Derivate, ihre Verwendung, Verfahren zu ihrer Herstellung und sie enthaltende pharmazeutische Präparate, European Patent EP 0 190 676 B1, 1988. *Chem. Abstr.* **1986**, *105*, 190534j.

4. Contribution in Books

- 7 K. Hegetschweiler, J. Huppert, T. Weyhermüller, J. Sander, A. Egli, C. Neis, S. Stucky
Structure - Stability Correlations for Some Facially Coordinating Ligands,
Insights into Coordination, Bioinorganic and Applied Inorganic Chemistry, Press of
Slovak University of Technology, Bratislava **2009**

- 6 S. Stucky, U. Heinz, K. Hegetschweiler
3,5-Bis(2-Hydroxyphenyl)-1*H*-1,2,4-Triazole and Derivatives as Effective Chelators for
Hard and Highly Charged Metal Cations, in *Achievements in Coordination, Bioinorganic
and Applied Inorganic Chemistry*, Eds. M. Melnik, J. Sima, and M. Tatarko, pp. 91 - 105,
Slovak Technical University Press, Bratislava, **2007**.

- 5 K. Hegetschweiler, P. J. Hagrman, J. Zubieta
1,3,5-Triamino-1,3,5-Trideoxy-*cis*-inositol, a ligand with a remarkable versatility for
metal ions, part 14, Crystal Structures of $[\text{Ni}_2(\text{taci})_2(\text{MoO}_4)_2]$ and $[\text{MoO}_3(\text{taci})]$, in
Advances in Coordination, Bioinorganic and Inorganic Chemistry, Eds. M. Melnik, J.
Sima, M. Tatarko, pp. 61 - 72, Slovak Technical University Press, Bratislava, **2005**.

- 4 A. Zimmer, T. Weyhermüller, K. Hegetschweiler
Linear Primary Polyamines as Building Blocks for Coordination Polymers, Part 4:
Complex Formation of Cu^{2+} with 1,2*R*,3,4*S*,5-pentaaminopentane (pap), in *Progress in
Coordination and Bioinorganic Chemistry*, Eds. M. Melnik and A Sirota,
pp. 201 - 206, Slovak Technical University Press, Bratislava, **2003**.

- 3 K. Hegetschweiler, T. Kradolfer, V. Gramlich, R. Hedinger
A Rigid Cyclohexane-Based Polyamino-Polyalcohol as Versatile Building Block for
Tailored Chelating Agents, *Coordination Chemistry at the Turn of the Century*, ed. G.
Ondrejovic and A. Sirota, pp. 159 - 164, Slovak Technical University Press, Bratislava,
1999.

- 2 Roger Alberto, Roger Schibli, André Egli, Ulrich Abram, Kaspar Hegetschweiler, P.
August Schubiger, W. A. Herrmann
Low Pressure Synthesis of $[\text{MX}_3(\text{CO})_3]^{2-}$ (M = Tc, Re; X = Cl, Br) and Its Substitution
Behaviour in Water and Organic Solvents, in *Technetium and Rhenium in Chemistry and
Nuclear Medicine*, ed. M. Nicolini, G. Bandoli, and U. Mazzi, Vol. 4, Padova, **1995**.

1 Paul Saltman, Louis Eguchi, Kaspar Hegetschweiler

The Participation of Hemoglobin and Myoglobin in the Reduction of Fe(III) and Cu(II), in *Frontiers in Bioinorganic Chemistry*, Ed. A. V. Xavier, pp. 123 - 132, VCH, Weinheim, **1986**.

5. Book Reviews

1 Kaspar Hegetschweiler *Angew. Chem.* **1997**, *109*, 546; *Angew. Chem. Int. Ed.* **1996**, *35*, 2406 - 2407 (A. E. Martell, R. D. Hancock, *Metal Complexes in Aqueous Solution*, Plenum Press, New York, 1996).