

## Prof. Dr. B. Kersting

### List of publications

29.11.2021

- 168.** Heterobimetallic conducting polymers based on salophen complexes via electrosynthesis, F. Bia, I. Gualandi, J. Griebel, L. Rasmussen, B. Hallak, D. Tonelli, B. Kersting, *J. Mater. Chem. C*, **2023**, TC-ART-10-2022-004372.R1
- 167.** Probing a Hydrogen- $\pi$  Interaction Involving a Trapped Water Molecule in the Solid State, E. Bartalucci, A. A. Malär, A. Mehnert, J. B. Kleine Büning, L. Günzel, M. Icker, M. Börner, C. Wiebeler, S. Grimme, B. Kersting, T. Wiegand, *Angew. Chem.* **2023**, <https://onlinelibrary.wiley.com/doi/10.1002/anie.202217725>.
- 166.** Half a century of inorganic biomimetic chemistry: From the complexation of single metal cations to metal-heteroatom aggregates and polynuclear metal complexes by multidentate thiolate ligands, J. Taut, J. C. Chambron, B. Kersting, *Eur. J. Inorg. Chem.*, **2022**, submitted
- 165.** Dicopper(II) Complexes with N<sup>3</sup>,N<sup>4</sup>-Bridging 1-Alkyltetrazoles: Synthesis, Crystal Structure, Magnetic and Thermodynamic Properties, S. V. Voitekhovich,\* A. S. Lyakhov, M. M. Degtyarik, Y. V. Grigoriev, D. I. Shiman, J. Klose, E. N. Stepurko, A. V. Blokhin, L. S. Ivashkevich, B. Kersting, O. A. Ivashkevich, *J. Solid State. Chem.*, **2022**, submitted
- 164.** 5-Amino-2-isopropenyltetrazole and its Cupric Chloride Complex: Synthesis, Structure and Magnetism, S. V. Voitekhovich,\* A. S. Lyakhov, L. S. Ivashkevich, V. E. Matulis, Y. V. Grigoriev, J. Klose, B. Kersting, Oleg A. Ivashkevich, *Z. Allg. Anorg. Chem.* **2022**, DOI: 10.1002/zaac.202200213
- 163.** Hydroxamate based transition metal-organic coordination polymers with semiconductive properties, Y. Yan, N.-N. Zhang, M. Börner, B. Kersting, H. Krautscheid\*, *Dalton Trans.* **2022**, advance article: DOI: 10.1039/D2DT01359B
- 162.** Halogenation of calix[4]arenes by [(py)<sub>2</sub>]<sub>3</sub>I<sub>3</sub>·2I<sub>2</sub>, P. Hahn, T. Köhler, M. Börner, B. Kersting\*, *Aust. J. Inorg. Chem.* **2022**, CH22031, <https://doi.org/10.1071/CH22031>
- 161.** Tetra-substituted *p*-tert-butylcalix[4]arene with phosphoryl and salicylamide functional groups: synthesis, complexation and selective extraction of f-element cations, F. Glasneck, Q. I. Roode-Gutzmer, T. Stumpf, B. Kersting\*, *Chem. Eur. J.* **2022**, 28, e202104301, <https://doi.org/10.1002/chem.202104301>
- 160.** Expanded Mercaptocalixarenes: A New Kind of Macrocyclic Ligands for Stabilization of Polynuclear Thiolate Clusters, F. Schleife, C. Bonnot, J.-C. Chambron\*, M. Börner, B. Kersting\*, *Chem. Eur. J.* **2022**, 28, e202104255, <https://doi.org/10.1002/chem.202104255>
- 159.** Stable Thiolate Adducts of Rh<sub>2</sub>(OAc)<sub>4</sub> – Assembly of Hexametalllic Ni<sub>4</sub>Rh<sub>2</sub> Complexes, S. Schmorl, M. Börner, B. Kersting\*, *Dalton Trans.* **2021**, 50, accepted manuscript DOI: 10.1039/D1DT03509F.
- 158.** Synthesis and structure of macrocyclic dinickel(II) complex with 5-(4-pyridyl)tetrazolate as coligand. *Journal of the Belarusian State University. Chemistry.* **2021**; 2:3–10. S. V. Voitekhovich\*, B. Kersting, O. A. Ivashkevich, <https://doi.org/10.33581/2520-257X-2021-2-3-10>
- 157.** Synthesis and Characterisation of Luminescent [Cr<sup>III</sup><sub>2</sub>(L)( $\mu$ -carboxylato)]<sup>3+</sup> Complexes with High-spin S = 3 Ground States (L = N<sub>6</sub>S<sub>2</sub> donor ligand), M. Börner, J. Klose, M. E. Gutierrez Suburu, C.

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**156.** Green-emissive Zn<sup>2+</sup> Complex Supported by a Macrocyclic Schiff-Base/Calix[4]arene-Ligand: Crystallographic and Spectroscopic Characterization, S. Ullmann, M. Börner, A. Kahnt, B. Abel, B. Kersting\*, *Eur. J. Inorg. Chem.* **2021**, *36*, 3691-3698, <https://doi.org/10.1002/ejic.202100442>

**155.** Etheral Hydroperoxides: Powerful Reagents for S-Oxygenation of Bridging Thiophenolate Functions, M. Börner, D. Fuhrmann, J. Klose, H. Krautscheid, B. Kersting\*, *Inorg. Chem.* **2021**, *60*, 13517-13527, [10.1021/acs.inorgchem.1c01854](https://doi.org/10.1021/acs.inorgchem.1c01854)

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**153.** Insertion of V<sup>IV</sup> Ions into the Polyoxotungstate Archetype As<sub>4</sub>W<sub>4</sub>O<sub>40</sub>, Maria Stuckart, Natalya V. Izarova, Maria Glöß, Jennifer Klose, Carolin Schmitz-Antoniak, Paul Kögerler, Berthold Kersting, Kirill Yu. Monakhov\*, *Inorg. Chem.* **2021**, *60*, 8437-8441. DOI: <https://doi.org/10.1021/acs.inorgchem.1c00897>

**152.** Metalloligands based on Robson-type Amino-Thiophenolato Macrocycles for Assembly of Heterotrimetallic Complexes, S. Schmorl, S. Naumov, B. Abel, M. Börner, A. Pöpl, B. Kersting\*, *Dalton Trans.* **2021**, *50*, 5784-5788. DOI: <https://doi.org/10.1039/D1DT00723H>

**151.** Temperature-sensitive structural speciation of cobalt-iminodialcohol-(N,N-aromatic chelator) systems: Lattice architecture and spectrochemical properties, S. Matsia, M. Menelaou, A. Hatzidimitriou, V. Tangoulis, N. Lalioti, N. Ioannidis, L. Blömer, B. Kersting, A. Salifoglu\*, *Eur. J. Inorg. Chem.* **2020**, 2919-2940. DOI: [ejic.202000435](https://doi.org/10.1002/ejic.202000435)

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**148.** Tetranuclear Lanthanide Complexes supported by Hydroxyquinoline-Calix[4]arene-Ligands: Synthesis, Structure and Magnetic Properties of [Ln<sub>4</sub>(H<sub>3</sub>L)<sub>2</sub>(μ-OH)<sub>2</sub>(NO<sub>3</sub>)<sub>4</sub>] (Ln = Tb, Dy, Yb) and [Dy<sub>2</sub>(H<sub>4</sub>L)<sub>2</sub>(NO<sub>3</sub>)<sub>2</sub>](NO<sub>3</sub>), A. Jäschke, T. Stumpf, A. Aliabadi, B. Büchner, V. Kataev, T. Hahn, J. Kortus, B. Kersting\*, *Eur. J. Inorg. Chem.* **2020**, *44*, 4203-4214. <https://doi.org/10.1002/ejic.202000718>

**147.** Light Controlled Oxidation by Supramolecular Zn(II) Schiff-base Complexes, C. Laube, J. Taut, J. Kretschmar, S. Zahn, W. Knolle, S. Ullman, A. Kahnt, B. Kersting\*, B. Abel\*, *Inorg. Chem. Front.* **2020**, *7*, 4333-4346. <https://doi.org/10.1039/D0QI00980F>

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- 143.** Dinuclear Tb and Dy Complexes supported by hybrid Schiff-Base/calixarene Ligands: synthesis, structures and magnetic Properties, P. Hahn, S. Ullmann, J. Klose, Y. Peng, A. Powell, B. Kersting\*, *Dalton Trans.* **2020**, 49, 10901-10908. DOI: <https://doi.org/10.1039/D0DT02209H>
- 142.** Halido-bridged Copper(II) Complexes with 1-tert-Butyl-1H-tetrazole: Crystal Structure and Magnetic Properties. S. V. Voitekhovich\*, M. M. Degtyarik, A. S. Lyakhov, L. S. Ivashkevich, J. Klose, B. Kersting, O. A. Ivashkevich, *Z. Anorg. Allg. Chem.* **2020**, 646, 1331-1335.  
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- 140.** Scaling up the Synthesis of a Hydroxyquinoline-Functionalized p-tert-Butylcalix[4]arene. Quirina I. Roode-Gutzmer, Lara N. Holderied, Florian Glasneck, Berthold Kersting, Peter Fröhlich, \* Martin Bertau\*, *Org. Process Res. Dev.* **2019**, 23, 2425–2438.
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- 138.** Dinuclear Lanthanide Complexes Supported by a hybrid Salicylaldiminato/Calix[4]arene-Ligand: Synthesis, Structure, Magnetic and Luminescence Properties of  $(\text{HNEt}_3)[\text{Ln}_2(\text{HL})(\text{L})]$  ( $\text{Ln} = \text{SmIII}, \text{EuIII}, \text{GdIII}, \text{TbIII}$ ). S. Ullmann, P. Hahn, L. Blömer, A. Mehnert, C. Laube, B. Abel, B. Kersting\*, *Dalton Trans.* **2019**, 48, 3893-3905.
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