



Publikationsliste

Stand 6.12.2020

Publikationen 2020

(227) "Influence of Alkali Metal Cations on the Photodimerization of Bromo Cinnamates Studied by Solid-State NMR"

M. Zahan, H. Sun, S. E. Hayes, H. Krautscheid, J. Haase, M. Bertmer
J. Phys. Chem. C (2020); DOI: 10.1021/acs.jpcc.0c09826

(226) "Synthesis and crystal structures of two new lead(II) complexes with the pincer-type ligand 4'-(4-Chlorophenyl)-2,2':6',2''-terpyridine (Cl-Ph-tpy): subtle interplay of weak intermolecular interactions"

F. Marandi, H. Krautscheid
Z. Naturforsch. **B75** (2020) 1043–1048; doi.org/10.1515/znb-2020-0129

(225) "Dithiol-dithione tautomerism of 2,3-pyrazinedithiol in the synthesis of new copper and silver coordination compounds"

S. Henfling, R. Kempt, J. Klose, A. Kuc, B. Kersting, H. Krautscheid
Inorg. Chem. **59** (2020) 16441-16453; DOI: 10.1021/acs.inorgchem.0c02203

(224) "Synthesis, Spectroscopic Characterization, Structural Studies, and *In Vitro* Antitumor Activities of Pyridine-3-carbaldehyde Thiosemicarbazone Derivatives"

W. Hernandez, F. Carrasco, A. Vaisberg, E. Spodine, J. Manzur, M. Icker, H. Krautscheid, L. Beyer
J. Chem. (2020), Article ID 2960165, doi.org/10.1155/2020/2960165

(223) "Naphthoquinone-derivative as a synthetic compound to overcome resistance in MRSA"

R. Song, B. Yu, D. Friedrich, J. Li, S. Hao, H. Krautscheid, S. D. Huang, M.-H. Kim
Communications Biology **3** (2020) 529; DOI: 10.1038/242003-020-01261-0

(222) "Synthesis, Crystal Structures, and Thermolysis Studies of Heteronuclear Transition Metal Aluminum Alcoholates"

S. Küsel, H. Krautscheid
Z. Anorg. Allg. Chem. **646** (2020) 1449-1457; DOI: 10.1002/zaac.202000246

(221) "Bulk polarity of 3,5,7-trinitro-1-azaadamantane mediated by asymmetric NO₂(lone pair)...NO₂(π-hole) supramolecular bonding"

K. V. Domasevitch, G. A. Senchyk, H. Krautscheid
Acta Crystallogr. **C76** (2020) 598-604; DOI: 10.1107/s2053229620006762

(220) "Crystal structure and Hirshfeld surface analysis of 4,4'-(propane-1,3-diyl)bis(4H-1,2,4-triazol-1-ium) pentafluoridooxidovanadate(V)"

G. A. Senchyk, A. B. Lysenko, H. Krautscheid, K. V. Domasevitch
Acta Crystallogr. **E76** (2020) 780-784; DOI:10.1107/s205698902000585x

(219) "Control over the coordination preferences in Ag⁺ and Ag⁺/UO₂²⁺ 1,2,4-triazolecarboxylate frameworks"

G. A. Senchyk, A. B. Lysenko, H. Krautscheid, K. V. Domasevitch
Inorg. Chem. Commun. **113** (2020) 107813; DOI:10.1016/j.inoche.2020.107813

Publikationen 2019

- (218) "A Molybdenum Trioxide Hybrid Decorated by 3-(1,2,4-Triazol-4-yl)adamantane-1-carboxylic Acid: A Promising Reaction-Induced Self-Separating (RISS) Catalyst"
A. B. Lysenko, G. A. Senchyk, K. V. Domasevitch, S. Henfling, O. Erhart, H. Krautscheid, P. Neves, A. A. Valente, M. Pillinger, I. S. Goncalves
Inorg. Chem. **58** (2019) 16424-16433; DOI:10.1021/acs.inorgchem.9b02137
- (217) "Coordination of a triazine ligand with Cu^{II} and Ag^I investigated by spectral, structural, theoretical and docking studies"
F. Marandi, K. Moeini, H. Krautscheid
Acta Crystallogr. **C75** (2019) 1389-1397; DOI:10.1107/s2053229619011719
- (216) "Photochemical low-temperature synthesis of iron(III) oxide thin films"
P. C. With, J. Lehnert, L. Seifert, S. Dietrich, H. Krautscheid, S. Naumov, A. Prager, B. Abel, L. Prager, U. Helmstedt
Appl. Surf. Sci. **493** (2019) 525-532; DOI:10.1016/j.apsusc.2019.06.272
- (215) "Desolvation Process in the Flexible Metal-Organic Framework [Cu(Me-4py-trz-ia)], Adsorption of Dihydrogen and Related Structure Responses"
O. Erhart, P. A. Georgiev, H. Krautscheid
CrystEngComm **21** (2019) 6523-6535; DOI:10.1039/c9ce00992b
- (214) "Spectral, structural and theoretical study of the effects of thiocyanato and dicyanamido ligands on the geometry of Pb^{II} complexes containing a triazinic ligand"
F. Marandi, K. Moeini, Z. Mardani, H. Krautscheid
Acta Crystallogr. **C75** (2019) 1023-1030; DOI:10.1107/s2053229619008301
- (213) "Crystal structure of poly[[[μ₄-3-(1,2,4-triazol-4-yl)adamantane-1-carboxylato-κ(5)N(1):N(2):O(1):O(1),O(1')]silver(I)] dihydrate]"
G. A. Senchyk, K. V. Domasevitch, H. Krautscheid
Acta crystallogr. **E75** (2019) 1145-1148
- (212) "Spectral, structural and theoretical study of novel helical and linear structures of PbI₂ and PbBr₂ complexes with a triazine ligand"
F. Marandi, K. Moeini, Z. Mardani, H. Krautscheid
J. Coord. Chem. **72** (2019) 1876-1889; <https://doi.org/10.1080/00958972.2019.1619707>
- (211) "Heteroepitaxial growth of α-, β-, γ- and κ-Ga₂O₃ phases by metalorganic vapor phase epitaxy"
V. Gottschalch, S. Merker, S. Blaurock, M. Kneiß, U. Teschner, M. Grundmann, H. Krautscheid
J. Cryst. Growth **510** (2019) 76-84; <https://doi.org/10.1016/j.jcrysgr.2019.01.018>
- (210) "Facile and selective polynitrations at the 4-pyrazolyl dual backbone: straightforward access to a series of high-density energetic materials"
K. V. Domasevitch, I. Gospodinov, H. Krautscheid, T. M. Klapötke, J. Stierstorfer,
New J. Chem. **43** (2019) 1305-1312; DOI:10.1039/c8nj05266b
- (209) "An optimized method for an (2R,3S)-isocitric acid building block"
K. Bullin, L. Hennig, R. Herold, H. Krautscheid, K. Richter, D. Sicker,
Monatshefte für Chemie - Chemical Monthly **150** (2019) 247-253; DOI:10.1007/s00706-018-2319-3

Publikationen 2018

- (208) "Multifrequency EPR, SQUID, and DFT Study of Cupric Ions and Their Magnetic Coupling in the Metal-Organic Framework Compound [Cu(prz-trz-ia)]"
A. Kultaeva, T. Biktairov, P. Neugebauer, H. Bamberger, J. Bergmann, J. van Slageren,
H. Krautscheid, A. Pöppel,
J. Phys. Chem. C **122** (2018) 26642-26651; DOI: 10.1021/acs.jpcc.8b08327

(207) "Docking studies to evaluate the biological activities of the Co(II) and Ni(II) complexes containing the triazine unit: supported by structural, spectral, and theoretical studies"
F. Marandi, K. Moeini, A. Arkak, Z. Mardani, H. Krautscheid,
J. Coord. Chem. **71** (2018) 3893-3911; DOI:10.1080/00958972.2018.1543871

(206) "Homo- and Heteroleptic Coordination Polymers and Oxido Clusters of Bismuth(III) Vinylsulfonates"
L. Wrobel, T. Ruffer, M. Korb, H. Lang, H. Krautscheid, J. Meyer, P. C. Andrews, M. Mehring,
Chem. Eur. J. **24** (2018), 16630-16644; DOI:10.1002/chem.201803664

(205) "Can a temporary bond between dye and redox mediator increase the efficiency of p-type dye-sensitized solar cells?"
S. Merker, H. Krautscheid, S. Zahn,
J. Mol. Model. **24**:317 (2018) 1-11; DOI.org/10.1007/s00894-018-3848-8

(204) "Synthesis, structures and antimicrobial activities of nickel(II) and zinc(II) diaminomaleonitrile-based complexes"
I. Sheikhshoaei, N. Lotfi, J. Sieler, H. Krautscheid, M. Khaleghi,
Trans. Met. Chem., **43** (2018) 555-562; DOI:10.1007/s11243-018-0241-5

(203) "Making an order: the concerted alignment of [MOF₅]²⁻ (M = Nb and Ta) dipolar anions in one-dimensional coordination chains sustained by tris(3,4,5-trimethyl-1H-pyrazole)copper(II)"
A. V. Sharko, O. Erhart, H. Krautscheid, K. V. Domasevitch,
Acta Crystallogr. C **74** (2018), 929-935; DOI:10.1107/S2053229618009853

(202) "A Series of Homo- and Heteroleptic Iron(III) Alkoxides as Precursors for Fe₂O₃"
S. Dietrich, A. Finke, D. Fuhrmann, H. Krautscheid, Z. Anorg. Allg. Chem. **644** (2018) 180-185;
DOI:10.1002/zaac.201700332

Publikationen 2017

(201) "Development of Erasin: a chromone-based STAT3 inhibitor which induces apoptosis in Erlotinib-resistant lung cancer cells"
C. Lis, S. Rubner, M. Roatsch, A. Berg, T. Gilcrest, D. Fu, E. Nguyen, A.-M. Schmidt, H. Krautscheid, J. Meiler, T. Berg
Scientific Rep. **7** (2017) 17390; DOI:10.1038/s41598-017-17600-x

(200) "A Combined Continuous Wave Electron Paramagnetic resonance and DFT calculations of copper-doped ³[Cd_{0.98}Cu_{0.02}(prz-trz-ia)] metal-organic framework"
A. Kultaeva, T. Biktagirov, J. Bergmann, L. Hensel, H. Krautscheid, A. Pöpl, Phys. Chem. Chem. Phys. **19** (2017) 31030-31038; DOI: 10.1039/C7CP06420A

(199) "Zinc Tin Chalcogenide Complexes and Their Evaluation as Molecular Precursors for Cu₂ZnSnS₄ (CZTS) and Cu₂ZnSnSe₄ (CZTSe)"
D. Fuhrmann, S. Dietrich, H. Krautscheid, Inorg. Chem. **56** (2017) 13123-13131;
DOI:10.1021/acs.inorgchem.7b01697

(198) "Exploration of a Variety of Copper Molybdate Coordination Hybrids Based on a Flexible Bis(1,2,4-triazole) Ligand: A Look through the Composition-Space Diagram"
G. A. Senchyk, A. B. Lysenko, K. V. Domasevitch, O. Erhart, S. Henfling, H. Krautscheid, E. Rusanov, K. W. Kramer, S. Decurtins, S.-X. Liu, Inorg. Chem. **56** (2017) 12952-12966; DOI:10.1021/acs.inorgchem.7b01735

(197) "Synthesis, characterization, crystal structure, and DFT studies of a *cis* dioxo -vanadium(V) complex containing a tridentate (NNO) Schiff base ligand"
N. Lotfi, I. Sheikhshoaei, S. Y. Ebrahimipour, H. Krautscheid. J. Mol. Struct. **1149** (2017) 432-438;
<https://doi.org/10.1016/j.molstruc.2017.08.010>

(196) "Lasing in cuprous iodide microwires"
M. Wille, E. Krüger, S. Blaurock, V. Zviagin, R. Deichsel, G. Benndorf, L. Trefflich, V. Gottschalch, H. Krautscheid, R. Schmidt-Grund, M. Grundmann
Appl. Phys. Lett. **111** (2017) 031105; DOI: 10.1063/1.4990524

- (195) "Copper iodide synthesized by iodization of Cu-films and deposited using MOCVD"
V. Gottschalch, S. Blaurock, G. Benndorf, J. Lenzner, M. Grundmann, H. Krautscheid
J. Cryst. Growth **471** (2017) 21-28; <https://doi.org/10.1016/j.jcrysgro.2017.04.033>
- (194) "A series of robust copper-based triazolyl isophthalate MOFs: impact of linker functionalization on gas sorption and catalytic activity"
U. Junghans, M. Kobalz, O. Erhart, H. Preißler, J. Lincke, J. Möllmer, H. Krautscheid, R. Gläser
Materials **10** (2017) 338; DOI:10.3390/ma10040338
- (193) "Structural, spectral and theoretical aspects in coordination of a triazine-based ligand toward lead(II) with holodirected environment"
F. Marandi, K. Moeini, B. Mostafazadeh, H. Krautscheid
Polyhedron **133** (2017) 146-154, DOI:10.1016/j.poly.2017.05.029
- (192) "Crystal structures of dibromido{N-pyridin-2-yl-κN}methylidene]picolinohydrazide-κ2N',O}cadmium methanol monosolvate and diiodido{N-[(pyridin-2-yl-κN)methylidene]picolinohydrazide-κ2N',O}cadmium"
A. A. Khandar, F. A. Afkhami, H. Krautscheid, K. A. Kristoffersen, Z. Atioglu, M. Akkurt, C. H. Gorbitz,
Acta Cryst. E **73** (2017) 698-701; DOI:10.1107/S2056989017005308
- (191) "Triazolyl, Imidazolyl, and Carboxylic Acid Moieties in the Design of Molybdenum Trioxide Hybrids: Photophysical and Catalytic Behavior"
A. B. Lysenko, G. A. Senchyk, K. V. Domasevitch, M. Kobalz, H. Krautscheid, J. Cichos, M. Karbowski, P. Neves, A. A. Valente, I. S. Goncalves,
Inorg. Chem. **56** (2017) 4380-4394; DOI:10.1021/acs.inorgchem.6b02986
- (190) "Ultrasonic assistance syntheses of new nano-sized lead(II) coordination polymers: motifs for PbO preparation"
L. Hashemi, F. Marandi, A. Morsali, H. Krautscheid,
J. Iran. Chem. Soc. **14** (2017), 1271-1279; DOI:10.1007/s13738-017-1078-0
- (189) "Synthesis and Crystal Structures of Copper Zinc Phenylthiolate and the First Copper Zinc Selenolate and Telluroate Complexes"
D. Fuhrmann, T. Severin, H. Krautscheid
Z. Anorg. Allg. Chem. **643** (2017) 932-937; DOI:10.1002/zaac.201600426
- (188) "Copper Zinc Thiolate Complexes as Potential Molecular Precursors for Copper Zinc Tin Sulfide (CZTS)"
D. Fuhrmann, S. Dietrich, H. Krautscheid
Chem. Eur. J. **23** (2017) 3338-3346; DOI:10.1002/chem.201604717
- (187) "Crystal structure of bis{N'-[(E)-4-hydroxybenzylidene]pyridine-4-carbohydrazide-κN¹}diiodidocadmium methanol disolvate"
F. A. Afkhami, H. Krautscheid, Z. Atioglu, M. Akkurt
Acta Cryst. E **73** (2017) 28-30; DOI.org/10.1107/S2056989016019575

Publikationen 2016

- (186) "Single-Source Precursors for I-III-VI₂ Semiconductor Materials"
O. Kluge, H. Krautscheid
In: Reedijk, J. (Ed.) Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering. Waltham, MA: Elsevier. DOI: 10.1016/B978-0-12-409547-2.11684-1
- (185) "Solid-State Ring-Opening Structural Transformation in Triazolyl Ethanesulfonate Based Silver Complexes"
Zh. Wang, S. Begum, H. Krautscheid
Cryst. Growth Design **16** (2016) 5836-5842; DOI:10.1021/acs.cgd.6b00926
- (184) "Chiral and redox active room temperature ionic liquids based on ferrocene and L-proline"
C. B. Bouvet, H. Krautscheid

Eur. J. Inorg. Chem. 2016, 4573-4580; DOI:10.1002/ejic.201600585

(183) "Bis(carboxyphenyl)-1,2,4-triazole based metal-organic frameworks – Impact of metal ion substitution on adsorption performance"

K. Kobalz, M. Kobalz, J. Möllmer, U. Junghans, M. Lange, J. Bergmann, M. Wecks, R. Gläser, H. Krautscheid

Inorg. Chem. **55** (2016) 6938-6948; DOI:10.1021/acs.inorgchem.6b00530

(182) "Sonochemical synthesis and characterization of three nano zinc(II) coordination polymers; Precursors for preparation of zinc(II) oxide nanoparticles"

F. Marandi, L. Hashemi, A. Morsali, H. Krautscheid

Ultrasonics Sonochemistry **32** (2016) 86-94; DOI:10.1016/j.ultsonch.2016.02.022

(181) "Paddle Wheel based Triazolyl Isophthalate MOFs: Impact of Linker Modification on Crystal Structure and Gas Sorption Properties"

M. Kobalz, J. Lincke, K. Kobalz, O. Erhart, J. Bergmann, D. Lässig, M. Lange, J. Möllmer, R. Gläser, R. Staudt, H. Krautscheid

Inorg. Chem. **55** (2016) 3030-3039; DOI:10.1021/acs.inorgchem.5b02921

(180) "Adsorptive separation of C2/C3/C4-hydrocarbons on a flexible Cu-MOF: The influence of temperature, chain length and bonding character"

T. Hähnel; G. Kalies, R. Krishna, J. Möllmer, J. Hofmann, M. Kobalz, H. Krautscheid

Micropor. Mesopor. Mater. **224** (2016) 392-399; DOI:10.1016/j.micromeso.2015.12.056

(179) "Metal complexes of benzimidazole derived sulfonamide: Synthesis, molecular structures and antimicrobial activity"

A. Ashraf, W. Ahmad Siddiqui, J. Akbar, G. Mustafa, H. Krautscheid, N. Ullah, B. Mirza, F. Sher, M. Hanif, C. G. Hartinger

Inorg. Chim. Acta **443** (2016) 179-185; DOI:10.1016/j.ica.2015.12.031

(178) "Composition Space Analysis in the Development of Copper Molybdate Hybrids Decorated by a Bifunctional Pyrazolyl//1,2,4-Triazole Ligand"

A. B. Lysenko, G. A. Senchyk, L. V. Lukashuk, K. V. Domasevitch, M. Handke, J. Lincke, H. Krautscheid, E. B. Rusanov, K. W. Kramer, S. Decurtins, S.-X. Liu

Inorg. Chem. **55** (2016) 239-250; DOI:10.1021/acs.inorgchem.5b02188

Publikationen 2015

(177) "Ag(I)-triazolylcarboxylates: The role of hydrocarbon tails in the formation of "sitting-on-layer" supramolecular bowls"

S. I. Vasylev'skyy, A. B. Lysenko, H. Krautscheid, M. Karbowskiak, E. B. Rusanov, K. V. Domasevitch

Inorg. Chem. Commun. **62** (2015) 51-54; DOI:10.1016/j.inoche.2015.10.026

(176) "Water stable triazolyl phosphonate MOFs; steep water uptake and facile regeneration"

S. Begum, S. Horike, S. Kitagawa, H. Krautscheid

Dalton Trans. **44** (2015) 118727-18730; DOI:10.1039/C5DT02651B

(175) "Synthesis and Structural Elucidation of Triazolylmolybdenum(VI) Oxide Hybrids and their Behavior as Oxidation Catalysts"

A. B. Lysenko, G. A. Senchyk, K. V. Domasevitch, J. Hauser, D. Fuhrmann, M. Kobalz, H. Krautscheid, P. Neves, A. A. Valente, I. S. Goncalves

Inorg. Chem. **54** (2015) 8327-8338; DOI:10.1021/acs.inorgchem.5b01007

(174) "Single Crystal Electron Paramagnetic Resonance with Dielectric Resonators of Mononuclear Cu²⁺ Ions in a Metal-Organic Framework Containing Cu₂ Paddle-Wheel Units"

S. Friedländer, M. Simenas, M. Kobalz, P. Eckold, O. Ovchar, A. G. Belous, J. Banyš, H. Krautscheid, A. Pöpl
J. Phys. Chem. C **119** (2015), 19171-19179, DOI:10.1021/acs.jpcc.5b05019

(173) "Synthesis of CuInS₂ nanocrystals from a molecular complex – characterization of the orthorhombic domain structure"

J. L. Cholula-Díaz, G. Wagner, D. Friedrich, O. Oeckler, H. Krautscheid
Dalton Trans. **44** (2015) 14227-14234, DOI: 10.1039/C5DT00419E

(172) "A series of isomorphous Metal–Organic Frameworks with rtl topology – Metal distribution and tunable sorption capacity via substitution of metal ions"

J. Bergmann, K. Stein, M. Kobalz, M. Handke, M. Lange, J. Moellmer, F. Heinke, O. Oeckler, R. Glaser, R. Staudt, H. Krautscheid
Micropor. Mesopor. Mater. **216** (2015) 56-63, DOI:10.1016/j.micromeso.2015.04.036

(171) "Selective oxidation of cyclooctene over copper-containing metal-organic frameworks"

U. Junghans, C. Worch, J. Lincke, D. Laessig, H. Krautscheid, R. Glaeser
Micropor. Mesopor. Mater. **216** (2015) 151-160, DOI:10.1016/j.micromeso.2015.01.050

(170) "Synthesis, Structure, and Electron Paramagnetic Resonance Study of a Mixed Valent Metal-Organic Framework Containing Cu₂ Paddle-Wheel Units"

M. Simenas, M. Kobalz, M. Mendt, P. Eckold, H. Krautscheid, J. Banyš, A. Pöpl
J. Phys. Chem. C **119** (2015) 4898-4907, DOI:10.1021/jp512629c

(169) "¹¹³Cd Solid-State NMR for Probing the Coordination Sphere in Metal-Organic Frameworks"

A. Viswanath Kuttathayil, M. Handke, J. Bergmann, D. Lässig, J. Lincke, J. Haase, M. Bertmer, H. Krautscheid
Chem. Eur. J. **21** (2015) 1118-1124, DOI:10.1002/chem.201405395

Publikationen 2014

(168) "Conducting behavior of chalcopyrite-type CuGaS₂ crystals under visible light"

J. L. Cholula-Díaz, J. Barzola-Quiquia, C. Kranert, T. Michalsky, P. Esquinazi, M. Grundmann, H. Krautscheid
Phys. Chem. Chem. Phys. **16** (2014) 221860-21866.

(167) "Triazolyl-Based Copper-Molybdate Hybrids: From Composition Space Diagram to Magnetism and Catalytic Performance"

G. A. Senchyk, A. B. Lysenko, A. A. Babaryk, E. B. Rusanov, H. Krautscheid, P. Neves, A. A. Valente, I. S. Goncalves, K. W. Kramer, S.-X. Liu, S. Decurtins, K. V. Domasevitch
Inorg. Chem. **53** (2014) 10112-10121.

(166) "Network Flexibility: Control of Gate Opening in an Isostructural Series of Ag-MOFs by Linker Substitution"

M. Handke, H. Weber, M. Lange, J. Möllmer, J. Lincke, R. Gläser, R. Staudt, H. Krautscheid
Inorg. Chem. **53** (2014) 7599-7607, <http://dx.doi.org/10.1021/ic500908r>

(165) "Water mediated proton conduction in a robust triazolyl phosphonate MOF with hydrophilic nanochannels"

S. Begum, Z. Wang, A. Donnadio, F. Costantino, M. Casciola, R. Valiullin, C. Chmelik, M. Bertmer, J. Kärger, J. Haase, H. Krautscheid
Chem. Eur. J. **20** (2014) 8862-8866, DOI: 10.1002/chem.201402886

(164) "Mixed-ligand hydroxocopper(II)/pyridazine clusters embedded into 3D framework lattices"

A. S. Degtyarenko, M. Handke, K. W. Krämer, S.-X. Liu, S. Decurtins, E. B. Rusanov, L. K. Thompson, H. Krautscheid, K. V. Domasevitch

Dalton Trans. **43** (2014) 8530-8542.

(163) „Structural flexibility of a copper-based metal-organic framework: sorption of C4-hydrocarbons and in situ XRD”

M. Lange, M. Kobalz, J. Bergmann, D. Lässig, J. Lincke, J. Möllmer, A. Möller, J. Hofmann, H. Krautscheid, R. Staudt, R. Gläser,
J. Mater. Chem. A, **2** (2014) 8075-8085.

(162) “Trialkylphosphine-Stabilized Copper(I) Dialkylaluminum(III) Ethanedithiolate Complexes: Single-Source Precursors and a Novel Modification of Copper Aluminum Disulfide”

M. Kischel, G. Dornberg, H. Krautscheid
Inorg. Chem. **53** (2014) 1614-1623.

(161) “1,2,4-Triazolyl-Carboxylate-Based MOFs Incorporating Triangular Cu(II)-Hydroxo Clusters: Topological Metamorphosis and Magnetism”

S. I. Vasylev'skyy, G. A. Senchyk, A. B. Lysenko, E. B. Rusanov, A. N. Chernega, J. Jezierska, H. Krautscheid, K. V. Domasevitch, A. Ozarowski
Inorg. Chem. **53** (2014) 3642-3654.

(160) “Microimaging of transient guest profiles to monitor mass transfer in nanoporous materials”

J. Kärger, T. Binder, C. Chmelik, F. Hibbe, H. Krautscheid, R. Krishna, J. Weitkamp, Jens
Nature Mater. **13** (2014) 333-343.

(159) “Organo Gallium / Indium Chalcogenide Complexes of Copper(I): Molecular Structures and Thermal Decomposition to Ternary Semiconductors”

O. Kluge, R. Biedermann, J. Holldorf, H. Krautscheid
Chem. Eur. J. **20** (2014) 1318-1331.

(158) “Synthesis and magnetotransport properties of nanocrystalline graphite prepared by aerosol assisted chemical vapor deposition”

J.L. Cholula-Díaz, J. Barzola-Quiquia, H. Krautscheid, U. Teschner, P. Esquinazi
Carbon **67** (2014) 10-16.

(157) “Tuning the Catalytic Activity of the Heteronuclear Coordination Polymers [Co_xZn_{1-x}(tdc)(bipy)] and [Co_xZn_{1-x}(Me₂trz pba)₂] in the Epoxidation of Cyclooctene via Isomorphous Substitution”

C. Worch, F. Kettner, D. Lässig, J. Lincke, H. Krautscheid, R. Gläser
Catal. Comm. **44** (2014) 46-49.

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