

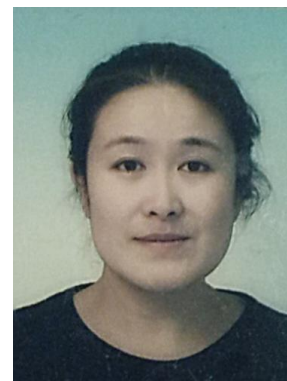
CURRICULUM VITAE

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PERSONAL DATA:

Name: LIU, Xiaohui
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Health: Excellent
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Nationality: Dutch
Languages: Chinese (excellent), English (excellent),
German (good), Dutch (good).

EDUCATION:

1. 1998 – 4. 2002 Institute of Inorganic Chemistry, RWTH Aachen University, Germany.
Ph.D. in Inorganic Chemistry, Supervisor: Prof. R. Dronskowski
Dissertation: Syntheses and Structures of Metal Cyanamide Compounds.
9. 1990 – 6. 1993 Shanghai Institute of Metallurgy, Chinese Academy of Sciences, China
(now: Shanghai Institute of Microsystem and Information Technology).
M.Sc. in Analytical Chemistry, Supervisor: Prof. Lin Sinru
9. 1983 – 7. 1987 Department of Chemistry, Shaanxi Normal University, Xian, China
B.Sc. in Analytical Chemistry

RELATED EXPERIENCE:

4. 2002 – Institute of Inorganic Chemistry, RWTH Aachen University, Germany.
Projects: Inorganic synthesis and structure analysis of advanced nitrogen-containing solid-state materials.
7. 1993 – 12. 1995 Laboratory of Analytical Chemistry, Shanghai Institute of Metallurgy, Chinese Academy of Sciences.
Researcher: Chemical and Biochemical sensors.
7. 1987 – 8. 1990 Department of Chemistry, Yanan University, China.
Teacher of Analytical Chemistry.

SELECTED PUBLICATIONS:

1. "Transition-Metal Carbodiimides as Molecular Negative Electrode Materials for Lithium- and Sodium-Ion Batteries with Excellent Cycling Properties", M. Sougrati, A. Darwiche, **X. Liu**, A. Mahmoud, R. Hermann, S. Jouen, L. Monconduit, R. Dronskowski, L. Stievano, *Angew. Chem. Int. Ed.* **2016**, *55*(16), 5090-5095.
2. "Synthesis and Structure Determination of the Quaternary Zinc Nitride Halides $Zn_2NX_{1-y}X'_y$ (X, X' = Cl, Br, I; $0 < y < 1$)" Li, **X. Liu**, R. Dronskowski, *Inorganics*, **2016**, *4*(4), 29.
3. " β -CuN₃: The Overlooked Ground-State Polymorph of Copper Azide with Heterographene-Like Layers", **X. Liu**, J. George, S. Maintz, R. Dronskowski, *Angew. Chem. Int. Ed.* **2015**, *54*(6), 1954-1959.
4. "Synthesis, Structure Determination and Electronic Structure of Magnesium Nitride Chloride, Mg₂NCl", Y. Li, J. George, **X. Liu**, R. Dronskowski, *Z. Anorg. Allg. Chem.* **2015**, *641*(2), 266-269.
5. "Synthesis and single-crystal structure determination of the zinc nitride halides Zn₂NX (X = Cl, Br, I)", **X. Liu**, C. Wessel, F. Pan, R. Dronskowski, *J. Solid State Chem.* **2013**, *203*, 31-36.
6. "Crystal Structure Refinement of M(NCNH)₂ (M = Fe, Co) Based on Combined Neutron and X-ray Diffraction Data", X. Tang, A. Houbert, **X. Liu**, L. Stork, R. Dronskowski, *Z. Anorg. Allg. Chem.* **2011**, *637*(9), 1089-1091.
7. "Synthesis, Characterization, and Quantum-Chemical Studies of Ni(CN)₂MX (M = Rb, Cs; X = Cl, Br)", **X. Liu**, M. Speldrich, P. Kogerler, R. Dronskowski, A. Tchougreff, *Inorg. Chem.* **2010**, *49*(16), 7414-7423.
8. "A Ferromagnetic Carbodiimide: Cr₂(NCN)₃", X. Tang, H. Xiang, **X. Liu**, M. Speldrich, R. Dronskowski, *Angew. Chem. Int. Ed.* **2010**, *49*(28), 4738-4742.
9. "Experimental and Quantum-Chemical Investigations of the UV/Vis Absorption Spectrum of Manganese Carbodiimide, MnNCN", **X. Liu**, R. Dronskowski, R. Glaum, A. Tchougreff, *Z. Anorg. Allg. Chem.* **2010**, *636*(2), 342-348.
10. "FeNCN and Fe(NCNH)₂: Synthesis, Structure, and Magnetic Properties of a Nitrogen-Based Pseudo-oxide and -hydroxide of Divalent Iron", **X. Liu**, L. Stork, M. Speldrich, H. Lueken, R. Dronskowski, *Chemistry- A European Journal* **2009**, *15*(7), 1558-1561.
11. Characterization of the magnetic and structural properties of copper carbodiimide, CuNCN, by neutron diffraction and first-principles evaluations of its spin exchange interactions, **X. Liu**, R. Dronskowski, R. Kremer, M. Ahrens, C. Lee, M. Whangbo, *J. Phy. Chem. C* **2008**, *112*(29), 11013-11017.
12. "Synthesis, crystal-structure determination and magnetic properties of two new transition-metal carbodiimides: CoNCN and NiNCN", M. Krott, **X. Liu**, B. Fokwa, M. Speldrich, H. Lueken, R. Dronskowski, *Inorg. Chem.* **2007**, *46*(6), 2204-2207.
13. "Synthesis and structure determination of Co(HNCN)₂ and Ni(HNCN)₂", M. Krott, **X. Liu**, P. Müller, R. Dronskowski, *J. Solid State Chemistry*, **2007**, *180*(1), 307-312.
14. "A novel method for synthesizing crystalline copper carbodiimide, CuNCN. Structure determination by X-ray Rietveld refinement", **X. Liu**, M. Wankeu, H. Lueken, R. Dronskowski, *Z. Naturforsch.* **B2005**, *60*(6), 593-596.
15. "Synthesis and crystal structure of ammine copper(I) cyanamide, Cu₄(NCN)₂NH₃", **X. Liu**, P. Müller, R. Dronskowski, *Z. Anorg. Allg. Chem.* **2005**, *631*(6-7), 1071-1074.
16. "Synthesis, Crystal Structure, and Properties of MnNCN, the First Carbodiimide of a Magnetic Transition Metal", **X. Liu**, M. Krott, P. Müller, C. Hu, H. Lueken, R. Dronskowski, *Inorg. Chem.* **2005**, *44*(9), 3001-3003.
17. "Synthesis, Structure Determination, and Quantum-Chemical Characterization of an Alternate HgNCN Polymorph", **X. Liu**, P. Müller, P. Kroll, R. Dronskowski, *Inorg. Chem.* **2002**, *41*, 4259-4265.
18. "Crystal Structure Refinement of Lead Cyanamide and the Stiffness of the Cyanamide Anion", **X. Liu**, A. Decker, D. Schmitz, R. Dronskowski, *Z. Anorg. Allg. Chem.* **2000**, *626*, 103-105.