

## Publikationen

### **Crystal and Molecular Structures and Experimentally Determined Charge Densities of Fluorinated Ethenes**

Dieter Lentz, Ansgar Bach, Jürgen Buschmann, Peter Luger and Marc Messerschmidt  
Chem. Eur. J., **10**(2004), 5059-5066

### **High-resolution synchrotron data collection for charge-density work at 100 and 20 K**

P. Luger, M. Messerschmidt, S. Scheins and A. Wagner  
Acta Cryst., **A60**(2004), 390-396

### **Charge Density Redetermination and Topological Analysis of $\beta$ -Diboran at 94 K**

Christian B. Hübschle, Marc Messerschmidt Dieter Lentz and Peter Luger  
Z. Anorg. Allg. Chem., **630**(2004), 1313-1316

### **Crystal structure of DL-Tryptophan at 173K**

Ch. B. Hübschle, M. Messerschmidt and P. Luger  
Cryst. Res. Technol., **39**(3)(2004), 274-278

### **Atomic volumes and charges in a system with a strong hydrogen bond: L-tryptophan formic acid**

Stephan Scheins, Birger Dittrich, Marc Messerschmidt, Carsten Paulmann and Peter Luger  
Acta Cryst., **B60**(2)(2004), 184-190

### **Ultra-low-temperature X-ray data collection with a newly developed 0.1 mm Kapton-film cylinder for a closed-cycle helium cryostat**

Marc Messerschmidt, Mathias Meyer and Peter Luger  
J. Appl. Cryst., **36**(6)(2003), 1452-1454

### **Atomic Properties of N<sub>2</sub>O<sub>4</sub> Based on Its Experimental Charge Density**

Marc Messerschmidt, Armin Wagner, Ming Wah Wong, and Peter Luger  
J. Am. Chem. Soc., **124**(5)(2002), 732

### **Crystal Structure Analysis of 1,1,4,4-Tetrafluorobutadiene and Experimental Determination of the Charge Density of 1,1,4,4-Tetrafluorobutatriene**

Ansgar Bach, Dieter Lentz, Peter Luger, Marc Messerschmidt, Christian Olesch, and Mona Patschke  
Angew. Chem. Int. Ed., **41**(2)(2002), 296

### **Topological Analysis of DL-Arginine Monohydrate at 100 K**

R. Kingsford-Adaboh, B. Dittrich, A. Wagner, M. Messerschmidt, R. Flaig and P. Luger  
Z. Kristallogr., **217**(2002), 168-173

Vorträge auf Konferenzen:

**Tieftemperaturkristallzüchtung und Ladungsdichteuntersuchung von Distickstofftetroxid (N<sub>2</sub>O<sub>4</sub>)**

Marc Messerschmidt, Peter Luger

9. annual meeting of the DGK, 2001, Bayreuth(Germany)

**Atomare Volumina und Ladungen in fluorierten Kohlenwasserstoffen**

Peter Luger, Mona Patschke, Ansgar Bach, Stephan Scheins, Marc Messerschmidt, und Manuela Weber

11. annual meeting of the DGK, 2003, Berlin(Germany)

**Charge Densities of Phosphorus containing compounds at 20K**

Marc Messerschmidt, Peter Luger

Sagamore XIV, 2003, Broome(Australia)

**Ladungsdichte von Phosphorpentoxid**

Marc Messerschmidt, Peter Luger

12. annual meeting of the DGK, 2004, Jena(Germany)

Posterpräsentationen auf internationalen Konferenzen:

**Development of a 0.1 mm film cylinder for a closed cycle helium cryostat**

Marc Messerschmidt and Peter Luger

IUCr XIX congress, **2002**, Geneva(Switzerland)

**High resolution experiments at 20K with a closed cycle helium cryostat**

Marc Messerschmidt and Peter Luger

Workshop on the Advanced Methods in X-ray diffraction Analysis, **2003**, Buffalo(USA)

**High resolution X-ray diffraction at 20K with CCD-area detection and a closed cycle helium cryostat**

Marc Messerschmidt and Peter Luger

21st European Crystallographic Meeting, **2003**, Durban(South Africa)

**Charge density of a [1.1.1]propellane**

Marc Messerschmidt, Stephan Scheins and Peter Luger

Gordon Research Conference on Electron Distribution and Chemical Bonding, **2004**  
South Hadley (USA)

**Charge density of dimeric bis(N,N-diethyldithiocarbamate)zinc by combination of 100K neutron with 20K x-ray diffraction**

Marc Messerschmidt, Peter Luger, Edward R. T. Tiekink and Wim Klooster

22nd European Crystallographic Meeting, **2004**, Budapest(Hungary)