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Properties of organic-inorganic hybrids

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List of Publications

- 1. Out-of-Plane Polarization in a Layered Manganese Chloride Hybrid** [Chapter 6]
M.E. Kamminga, R. Hidayat, J. Baas, G.R. Blake & T.T.M. Palstra, *APL Mater.*, **2018**, *Accepted*.
- 2. Micropatterned 2D Hybrid Perovskite Thin Films with Enhanced Photoluminescence Lifetimes** [Chapter 7]
M.E. Kamminga, H.-H. Fang, M.A. Loi, G.H. ten Brink, G.R. Blake, T.T.M. Palstra & J.E. ten Elshof, *ACS Appl. Mater. Interfaces*, **2018**, 10(15), 12878-12885.
- 3. Unravelling Light-Induced Degradation of Layered Perovskite Crystals and Design of Efficient Encapsulation for Improved Photostability** [Not in this thesis]
H.-H. Fang, J. Yang, S. Tao, S. Adjokatse, M.E. Kamminga, G.R. Blake, J. Even & M.A. Loi, *Adv. Funct. Mater.*, **2018**, 1800305.
- 4. The Role of Connectivity on Electronic Properties of Lead Iodide Perovskite-Derived Compounds** [Chapter 4]
M.E. Kamminga, G.A. de Wijs, R.W.A. Havenith, G.R. Blake & T.T.M. Palstra, *Inorg. Chem.*, **2017**, 56(14), 8408-8414.
- 5. Polar Nature of (CH₃NH₃)₃Bi₂I₉ Perovskite-Like Hybrids** [Chapter 5]
M.E. Kamminga, A. Stroppa, S. Picozzi, M. Chislov, I.A. Zvereva, J. Baas, A. Meetsma, G.R. Blake & T.T.M. Palstra, *Inorg. Chem.*, **2017**, 56(1), 33-41.
- 6. Confinement Effects in Low-Dimensional Lead Iodide Perovskite Hybrids** [Chapter 3]
M.E. Kamminga, H.-H. Fang, M.R. Filip, F. Giustino, J. Baas, G.R. Blake, M.A. Loi & T.T.M. Palstra, *Chem. Mater.*, **2016**, 28(13), 4554-4562.
- 7. Elimination of the Light Soaking Effect and Performance Enhancement in Perovskite Solar Cells Using a Fullerene Derivative** [Not in this thesis]
S. Shao, M. Abdu-Aguye, L. Qui, L.-H. Lai, J. Liu, S. Adjokatse, F. Jahani, M.E. Kamminga, G.H. ten Brink, T.T.M. Palstra, B.J. Kooi, J.C. Hummelen & M.A. Loi, *Energy Environ. Sci.*, **2016**, 9, 2444-2452.

8. **Bisecting Microfluidic Channels with Metallic Nanowires Fabricated by Nanoskiving** [Not in this thesis]
G.A. Kalkman, Y. Zhang, E. Monachino, K. Mathwig, M.E. Kamminga, P. Pourhossein, P.E. Oomen, S.A. Stratmann, Z. Zhao, A.M. van Oijen, E. Verpoorte & R.C. Chiechi, *ACS Nano*, **2016**, 10(2), 2852-2859.

Submitted Manuscripts

9. **Spin-Singlet Formation in the Spin-Tetramer Layered Organic-Inorganic Hybrid $\text{CH}_3\text{NH}_3\text{Cu}_2\text{Cl}_5$** [Chapter 9]
M.E. Kamminga, M. Azhar, J. Zeisner, A.M.C. Maan, B. Büchner, V. Kataev, J. Baas, G.R. Blake, M. Mostovoy & T.T.M. Palstra, *submitted*.
10. **Thermoelectric Signatures of the Electron-Photon Fluid PtSn_4** [Not in this thesis]
C. Fu, T. Scaffidi, S. Hartnoll, J. Waissman, Y. Sun, R. Saha, A.K. Srivastava, G. Li, W. Schnelle, P. Werner, M.E. Kamminga, S. Sachdev, C. Felser & J. Gooth, *submitted*.

Manuscripts in Preparation

11. **The Role of Hypophosphorous Acid on the Synthesis of Tin-Based Organic-Inorganic Hybrids** [Chapter 8]
M.E. Kamminga, M. Gélvez-Rueda, S. Maheshwari, I.S. van Droffelaar, J. Baas, G.R. Blake, F.C. Grozema & T.T.M. Palstra, *in preparation*.
12. **Band-edge Exciton Fine Structure and Exciton Recombination Dynamics in Single Crystals of Layered Hybrid Perovskites** [Not in this thesis]
H.-H. Fang, J. Yang, S. Adjokatse, M.E. Kamminga, H. Duim, J. Ye, G.R. Blake, J. Even & M.A. Loi, *in preparation*.
13. **Robust Tamm Surface States in Dirac Semimetal PtSn_4 for Hydrogen Evolution** [Not in this thesis]
G. Li, C. Fu, W. Shi, L. Jiao, J. Wu, R. Saha, M.E. Kamminga, E. Liu, A. Yazdani, P. Werner, V. Süß, G.R. Blake, X. Liu, M. Fahlman, J. Zhang, X. Feng, S. Parkin, G. Auffermann, J. Gooth, Y. Sun & C. Felser, *in preparation*.