

F1.3 (C. Feldmann)

- [F1.3:1] E. Hammarberg, A. Prodi-Schwab, and C. Feldmann, *Microwave-assisted Synthesis of $\text{In}_2\text{O}_3\text{:Sn}$ (ITO) Nanocrystals in Polyol Media and Transparent, Conductive Layers thereof*, [Thin Solid Films 516, 7437 \(2008\)](#)
- [F1.3:2] E. Hammarberg, Anna Prodi-Schwab, and C. Feldmann, *Microwave-assisted Polyol Synthesis of Aluminium- and Indium-doped ZnO Nanocrystals*, [J. Colloid Interface Sci. 334, 29 \(2009\)](#)
- [F1.3:3] A. Luz and C. Feldmann, *Reversible Photochromatic Effect and Electrochemical Voltage driven by Light-induced Bi^{I} -Formation*, [J. Mater. Chem. 19, 8107 \(2009\)](#)
- [F1.3:4] H. Goesmann and C. Feldmann, *Nanoparticulate Functional Materials (Review)*, [Angew. Chem. Int. Ed. 49, 1362 \(2010\)](#)
- [F1.3:5] * A. Puetz, T. Stubhan, M. Reinhard, O. Loesch, E. Hammarberg, S. Wolf, C. Feldmann, H. Kalt, A. Colsmann, and U. Lemmer, *Organic Solar Cells incorporating Buffer Layers from Indium-doped Zinc Oxide Nanoparticles*, [Sol. En. Mater. Sol. Cells 95, 579 \(2010\)](#)
- [F1.3:6] Y.S. Avadhut, J. Weber, E. Hammarberg, C. Feldmann, I. Schellenberg, R. Pöttgen, and J. Schmedt auf der Günne, *Study of the Defect Structure of $\text{SnO}_2\text{:F}$ Nanoparticles by High-Resolution Solid State NMR*, [Chem. Mater. 23, 1526 \(2010\)](#)
- [F1.3:7] J. Ungelenk and C. Feldmann, *Nanoscaled Tin Tungstate – A highly efficient Photocatalyst for Daylight-driven Degradation of Organic Dyes and Its quick and easy Synthesis*, [Appl. Catal. B 102, 515 \(2010\)](#)
- [F1.3:8] P. Schmitt, N. Brem, S. Schunk, and C. Feldmann, *Polyol-mediated Synthesis of Nanoscale Molybdates/Tungstates and Its Properties: Color, Luminescence, Catalysis*, [Adv. Funct. Mater. 21, 3037 \(2011\)](#)
- [F1.3:9] A. Luz and C. Feldmann, *Phase-transfer assisted Synthesis of BiOI Nanoplatelets, quantum-confined Color and selective Modification of Surface Conditioning*, [Solid State Sci. 13, 1017 \(2011\)](#)
- [F1.3:10] M. Sämman, P. Donn, G. Gerber, C. Feldmann, G. Bilger, and J.H. Werner, *Solar Cell with Antireflective Coating and Method for Producing such a Cell*, ([Applicant: Technologie- und Lizenzbüro Baden-Württemberg GmbH](#)), Patent application, [DE 102011102790, WO 2012163797](#)
- [F1.3:11] J. Ungelenk and C. Feldmann, *Fotokatalysatoren auf Zinnmolybdat-Basis sowie deren Herstellung*, ([Applicant: Technologie- und Lizenzbüro Baden-Württemberg GmbH](#)), Patent application, [DE 102011012931.6, WO 2012116784](#)
- [F1.3:12] J. Ungelenk and C. Feldmann, *Fotokatalysatoren auf Zinnwolframat-Basis sowie deren Herstellung*, ([Applicant: Technologie- und Lizenzbüro Baden-Württemberg GmbH](#)), Patent application, [DE 102011012930.8, WO 2012031645](#)
- [F1.3:13] J. Ungelenk and C. Feldmann, *Synthesis of Faceted $\beta\text{-SnWO}_4$ Microcrystals and Enhanced Visible-light Photocatalytic Properties*, [Chem. Commun. 48, 7838 \(2012\)](#)
- [F1.3:14] J. Ungelenk and C. Feldmann, *Adjustable Kinetics in Heterogeneous Photocatalysis Demonstrating the Relevance of Electrostatic Interactions*, [Catal. B 127, 11 \(2012\)](#)
- [F1.3:15] H. Dong and C. Feldmann, *Porous ZnO Platelets via controlled thermal Decomposition of Zinc Glycerolate*, [J. Alloys Comp. 513, 125 \(2012\)](#)

- [F1.3:16] Y.S. Avadhut, J. Weber, E. Hammarberg, C. Feldmann, and J. Schmedt auf der Günne, *Structural investigation of Aluminum Doped ZnO Nanoparticles by Solid-State NMR Spectroscopy*, [Phys. Chem. Chem. Phys. 14, 11610 \(2012\)](#)
- [F1.3:17] * R. Witter, M. Roming, C. Feldmann, A.S. Ulrich, *Multilayered Core-Shell Structure of Polyol-stabilized CaF₂ Nanoparticles Characterized by NMR*, [J. Colloid Interface Sci. 390, 250 \(2013\)](#)
- [F1.3:18] A. Luz, A. Malek, and C. Feldmann, *Photochemical Synthesis of Particulate Main-Group Elements and Compounds*, [Chem. Mater. 25, 202 \(2013\)](#)
- [F1.3:19] E. Hammarberg, and C. Feldmann, *Laux-type Oxidation of In⁰ Nanoparticles to In₂O₃ Retaining Particle Size and Colloidal Stability*, [Z. Anorg. Allg. Chem. 639, 887 \(2013\)](#)
- [F1.3:20] * A. Luz, J. Conradt, M. Wolff, H. Kalt, and C. Feldmann, *p-DSSCs with BiOCl and BiOBr Semiconductor and Polybromide Electrolyte*, [Solid State Sci. 19, 172 \(2013\)](#)
- [F1.3:21] * S. Höfle, M. Bruns, S. Strässle, C. Feldmann, U. Lemmer, and A. Colsmann, *Tungsten Oxide Buffer Layers Fabricated by Inert Sol-Gel Process at Room Temperature for Blue Organic Light-Emitting Diodes*, [Adv. Mater. 25, 4113 \(2013\)](#)
- [F1.3:22] * H. Dong, T. Schnabel, E. Ahlswede, and C. Feldmann, *Polyol-mediated Synthesis of Cu₂ZnSn(S/Se)₄ Kesterite Nanoparticles and Their Use in Thin-film Solar Cells*, *Solid State Sci.* **29**, 52 (2014)

Invited Talks at International Conferences

Claus Feldmann, *Die Zwerge kommen! – Synthese, Eigenschaften und Anwendungen nanoskaliger Funktionsmaterialien*, GDCh-Vortrag, TU Chemnitz, 25.05.2011.

Claus Feldmann, *Nanoscale Functional Materials: Synthesis, Characterization, Properties*, BASF AG, Trostberg 09.11.2011.

Claus Feldmann, *Kleine und große Festkörper: Vom Syntheselabor in die Anwendung*, Institut für Anorganische Chemie, Prof. W. Mader, Universität Bonn, 17.11.2011.

Claus Feldmann, *Solid State Chemistry meets Nanomaterials: Über unedle Metalle, Leuchtendes, Ausgehöhlt und Brom*, Institut für Anorganische Chemie, Prof. I. Krossing, Universität Freiburg, 14.12.2011.

Claus Feldmann, *Nanopartikuläre Funktionsmaterialien: Synthese, Eigenschaften, Anwendung*, Department Chemie- und Bioingenieurwesen, Prof. Th. Pöschel, Universität Erlangen-Nürnberg, 26.01.2012.