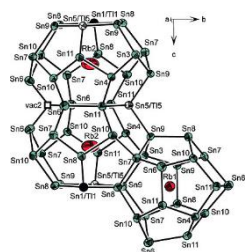


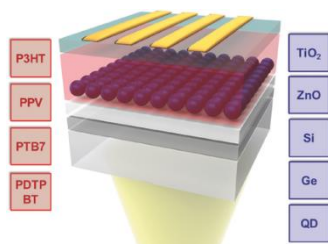
## Energy Conversion Materials



*A new type of  $2 \times 2 \times 2$  superstructure of clathrate-I with  $I\bar{4}3d$  symmetry in  $A_8Sn_{46-x-y}Tl_x\text{□}_y$  ( $A = \text{Rb}, \text{Cs}$ )*

*V. Baran, V. Hlukhyy, T. F. Fässler*

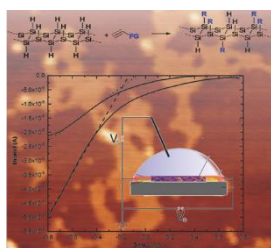
*Z. Anorg. Allg. Chem.* 644 (2018), 1456–1463 (DOI: [10.1002/zaac.201800290](https://doi.org/10.1002/zaac.201800290))



*Hybrid Photovoltaics – from Fundamentals towards Application*

*P. Müller-Buschbaum, M. Thelakkat, T. F. Fässler, M. Stutzmann*

*Adv. Energy Mater.* 7 (2017), 1700248 (DOI: [10.1002/aenm.201700248](https://doi.org/10.1002/aenm.201700248))

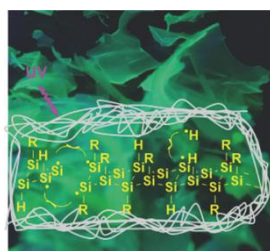


*Lewis Acid Induced Functionalization of Photoluminescent 2D Silicon Nanosheets for the Fabrication of Functional Hybrid Films*

*T. Helbich, A. Lyuleeva, P. Marx, L. M. Scherf, T. Purkait, T. F. Fässler,*

*P. Lugli, J. G. C. Veinot, B. Rieger*

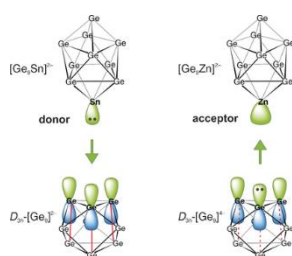
*Adv. Funct. Mater.* 27 (2017), 1606764 (DOI: [10.1002/adfm.201606764](https://doi.org/10.1002/adfm.201606764))



*One-Step Synthesis of Photoluminescent Covalent Polymeric Nanocomposites from 2D Silicon Nanosheets*

*T. Helbich, A. Lyuleeva, T. Ludwig, L. M. Scherf, T. F. Fässler, P. Lugli, B. Rieger*

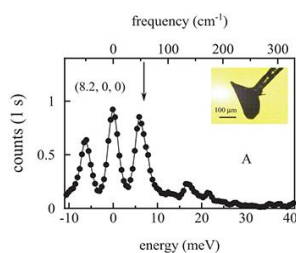
*Adv. Funct. Mater.* 26 (2016), 6711–6718 (DOI: [10.1002/adfm.201602137](https://doi.org/10.1002/adfm.201602137))



*On the Nature of Bridging Metal Atoms in Intermetalloid Clusters: Synthesis and Structure of the Metal-Atom-Bridged Zintl Clusters  $[\text{Sn}(\text{Ge}_9)_2]^{4-}$  and  $[\text{Zn}(\text{Ge}_9)_2]^{6-}$*

*M. M. Bentlohner, L.-A. Jantke, T. Henneberger, C. Fischer, K. Mayer, W. Klein, T. F. Fässler*

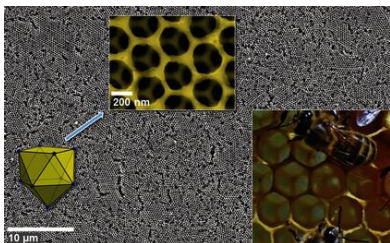
*Chem. Eur. J.* 22 (2016), 13946–13952 (DOI: [10.1002/chem.201601706](https://doi.org/10.1002/chem.201601706))



*Elastic properties of type-I clathrate  $\text{K}_8\text{Zn}_4\text{Sn}_{42}$  determined by inelastic X-ray scattering*

*B. M. Leu, M. I. Sturza, J. W. Hong, A. Alatas, V. Baran, T. F. Fässler*

*EPL* 113 (2016), 16001 (DOI: [10.1209/0295-5075/113/16001](https://doi.org/10.1209/0295-5075/113/16001))

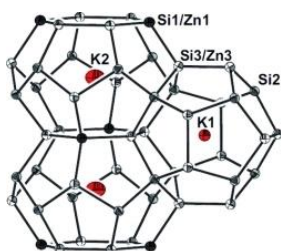


*Zintl Clusters as Wet-Chemical Precursors for Germanium Nanomorphologies with Tunable Composition*

M. M. Bentloher, M. Waibel, P. Zeller, K. Sarkar, P. Müller-Buschbaum, D. Fattakhova-Rohlfing, T. F. Fässler

*Angew. Chem.* 128 (2016), 2487–2491 (DOI: [10.1002/ange.201508246](https://doi.org/10.1002/ange.201508246))

*Angew. Chem. Int. Ed.* 55 (2016), 2441–2445 (DOI: [10.1002/anie.201508246](https://doi.org/10.1002/anie.201508246))

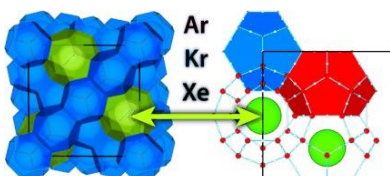


*Si-based Clathrates with Partial Substitution by Zn and Ga:  $K_8Zn_{3.5}Si_{42.5}$ ,*

*$Rb_{7.9}Zn_{3.6}Si_{42.4}$ , and  $Cs_{8-x}Ga_{8-y}Si_{38+y}$*

V. Baran, T. F. Fässler

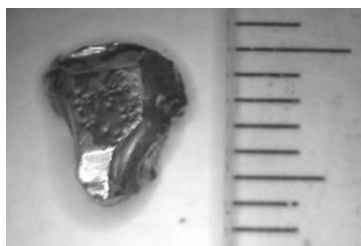
*Z. Anorg. Allg. Chem.* 641 (2015), 1435–1443 (DOI: [10.1002/zaac.201500147](https://doi.org/10.1002/zaac.201500147))



*Semiconducting Clathrates Meet Gas Hydrates:  $Xe_{24}[Sn_{136}]$*

A. J. Karttunen, T. F. Fässler

*Chem. Eur. J.* 20 (2014), 6693–6698 (DOI: [10.1002/chem.201402251](https://doi.org/10.1002/chem.201402251))



*Synthesis of Large Single Crystals and Thermoelectrical Properties of the Type-I Clathrate  $K_8Zn_4Sn_{42}$*

V. Baran, A. Fischer, W. Scherer, T. F. Fässler

*Z. Anorg. Allg. Chem.* 639 (2013), 2125–2128 (DOI: [10.1002/zaac.201300383](https://doi.org/10.1002/zaac.201300383))