

List of publications

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Number of citations: 4940, h-index: 32 (google scholar, May 2023)

75. S. Grover, S. Burger, K. T. Butler, K. Hemmer, P. Vervoorts, G. Kieslich*, R. Grau-Crespo*. Tuning the Mechanical Properties of Dicyanamide-Based Molecular Perovskites. *CrystEngComm*. **2023**, just accepted, DOI:10.1039/D3CE00009E.
74. I. Senkovska, V. Bon, L. Abylgazina, M. Mendt, J. Berger, G. Kieslich, P. Petkov, J. Luiz Fiorio, J.-O. Joswig, T. Heine*, L. Schaper, C. Bachetzky, R. Schmid*, R. A. Fischer*, A. Pöppel*, E. Brunner*, S. Kaskel*. Understanding MOF Flexibility: An Analysis Focused on Pillared Layer MOFs as a Model System. *Angew. Chem. Int. Ed.* **2023**, just accepted, DOI:10.1002/anie.202218076.
73. G. Kieslich*. Materialdesign von Festkörpern. *Nachrichten aus der Chemie* **2023**, 71, 74.
72. S. M. Kronawitter, S. A. Hallweger, J. Meyer, C. Pedri, S. Burger, A. Alhadid, S. Henke, G. Kieslich*. Li(C₂N₃) as eutectic forming modifier in the melting process of the molecular perovskite [(C₃H₇)₃N(C₄H₉)]Mn(C₂N₃)₃. *APL Mater.* **2023**, 11, 031119.
71. J. Berger, A.-S. Dönmez, A. Ullrich, H. Bunzen, R. A. Fischer*, G. Kieslich*. Reduced thermal expansion by surface-mounted nanoparticles in a pillared-layered metal-organic framework. *Commun. Chem.* **2022**, 5, 177.
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67. A. Mutschke*, A. Schulz, M. Bertmer, A. J. Karttunen, C. Ritter, G. Kieslich, N. Kunkel*. Expanding the hydride chemistry: Antiperovskite A₃MO₄H (A = Rb, Cs; M = Mo, W) introducing the transition oxometallate hydrides. *Chem. Sci.* **2022**, 13, 7773-7779.
66. S. Hallweger, C. Kaußler, G. Kieslich*. The structural complexity of perovskites. *Phys. Chem. Chem. Phys.* **2022**, 24, 9196-9202.
65. J. Song, R. Pallach, L. Frenzel-Beyme, P. Kolodzeiski, G. Kieslich, P. Vervoorts, C. L. Hobday, S. Henke*. Tuning the High-Pressure Phase Behaviour of Highly Compressible Zeolitic Imidazolate Frameworks: From Discontinuous to Continuous Pore Closure by Linker Substitution. *Angew. Chem.* **2022**, 61, e202117565.
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62. S. Burger, S. Grover, K. T. Butler, H. L. B. Boström, R. Grau-Crespo*, G. Kieslich*. Tilt and Shift Polymorphism in Molecular Perovskites. *Mater. Horiz.* **2021**, 8, 2444-2450.

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52. Keith T. Butler*, P. Vervoorts, M. G. Ehrenreich, J. Armstrong, J. M. Skelton, G. Kieslich*. Experimental Evidence for Vibrational Entropy as Driving Parameter of Flexibility in the Metal-Organic Framework ZIF-4(Zn). *Chem. Mater.* **2019**, 31, 8366-8372.
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