

Publications (peer-reviewed)

*corresponding author, #equal contribution

- 15 **Intrinsic anion diffusivity in lead halide perovskites is facilitated by a soft lattice**
M. Lang[#], A. Obliger[#], D. Lu, C. S. Kley, C. G. Bischak, Q. Kong, T. Lei, L. Dou, N. S. Ginsberg, D. T. Limmer, P. Yang
Proc. Nat. Acad. Sci. USA 2018, 115, 11929
- 14 **Giant light-emission enhancement in lead halide perovskites by surface oxygen passivation**
D. Lu[#], Y. Zhang[#], M. Liang, A. Lee, C. Xie, J. Lin, T. Lei, Z. Lin, C. S. Kley, E. Rabani, P. Yang
Nano Letters, 2018, 18, 6967
- 13 **Strongly quantum confined colloidal cesium tin iodide perovskite nanoplates: lessons for reducing defect density and improving stability**
A. Wong[#], Y. Bekenstein[#], J. Kang, C. S. Kley, D. Kim, N. A. Gibson, D. Zhang, Y. Yu, S. R. Leone, L.-W. Wang, A. P. Alivisatos, P. Yang
Nano Letters 2018, 18, 2060
- 12 **Thermochromic Halide Perovskite Solar Cells**
J. Lin[#], M. Lai[#], L. Dou[#], C. S. Kley, H. Chen, F. Peng, J. Sun, D. Lu, S. A. Hawks, C. Xie, F. Cui, A. P. Alivisatos, D. T. Limmer, P. Yang
Nature Materials 2018, 17, 261
- 11 **Copper Nanoparticle Ensembles for Selective Conversion of CO₂ to C₂-C₃ Products at Low Overpotentials**
D. Kim, C. S. Kley, Y. Li, P. Yang
Proc. Nat. Acad. Sci. USA 2017, 114, 10560
- 10 **Spatially Resolved Multi-Color CsPbX₃ Nanowire Heterojunctions via Anion Exchange**
L. Dou[#], M. Lai[#], C. S. Kley[#], C. G. Bischak, Y. Yang, D. Zhang, N. S. Ginsberg, P. Yang
Proc. Nat. Acad. Sci. USA 2017, 114, 28, 7216
- 9 **Metal-Organic Frameworks for Electrocatalytic Reduction of Carbon Dioxide**
N. Kornienko[#], Y. Zhao[#], C. S. Kley, C. Zhu, C. Zhu, D. Kim, S. Lin, C. J. Chang, O. Yaghi, P. Yang
J. Am. Chem. Soc. 2015, 137, 14129
- 8 **CO₂ binding and induced structural collapse of a surface-supported metal-organic network**
J. Cechal, C. S. Kley, R. Pétuya, F. Schramm, M. Ruben, S. Stepanow, A. Arnau, K. Kern
J. Phys. Chem. C 2016, 120, 18622
- 7 **Modelling ferro- and antiferromagnetic interactions in metal-organic coordination networks**
M. N. Faraggi, V. N. Golocavh, S. Stepanow, T.-C. Tseng, N. Abdurakhmanova, C. S. Kley, A. Langner, V. Sessi, K. Kern, A. Arnau
J. Phys. Chem. C 2014, 119, 547
- 6 **TiO₂ anatase with a bandgap in the visible region**
C. Dette, M. A. Perez, C. S. Kley, P. Punke, C. Patrick, P. Jacobson, F. Giustino, S.-J. Jung, K. Kern
Nano Letters 2014, 14, 6533
- 5 **Convergent and divergent two-dimensional coordination networks formed through substrate-activated or quenched alkynyl ligation**
J. Cechal, C. S. Kley, T. Kumagai, F. Schramm, M. Ruben, S. Stepanow, K. Kern
Chem. Comm. 2014, 50, 9973
- 4 **Atomic-scale observation of multi-conformational binding and energy level alignment of ruthenium-based photosensitizers on TiO₂ anatase**
C. S. Kley^{*}, C. Dette, G. Rinke, J. Cechal, C. Patrick, M. Baur, M. Dürr, S.-J. Jung, S. Rauschenbach, F. Giustino, S. Stepanow^{*}, K. Kern
Nano Letters 2014, 14, 563
- 3 **Functionalization of open 2D metal-organic templates through selective incorporation of metal atoms**
J. Cechal, C. S. Kley, T. Kumagai, F. Schramm, M. Ruben, S. Stepanow, K. Kern
J. Phys. Chem. C 2013, 117, 8871
- 2 **Superexchange-mediated ferromagnetic coupling in 2D Ni-TCNQ networks on metal surfaces**
N. Abdurakhmanova, T.-C. Tseng, A. Langner, C. S. Kley, V. Sessi, S. Stepanow, K. Kern
Phys. Rev. Lett. 2013, 110, 27202
- 1 **Highly adaptable two-dimensional metal-organic coordination networks on metal surfaces**
C. S. Kley^{*}, J. Cechal, T. Kumagai, F. Schramm, M. Ruben, S. Stepanow^{*}, K. Kern
J. Am. Chem. Soc. 2012, 134, 6072