

List of Publications: Konstantin Hirsch

- [29] M. da Silva Santos, T. Stüker, M. Flach, O. S. Ablyasova, M. Timm, B. von Issendorff, **K. Hirsch**, V. Zamudio-Bayer, S. Riedel, and J. T. Lau, *The Highest Oxidation State of Rhodium: Rhodium(VII) in [RhO₃]⁺*, Angew. Chem. Int. Ed. **61**, e202207688 (2022).
- [28] M. Flach, **K. Hirsch**, M. Timm, O. S. Ablyasova, M. da Silva Santos, M. Kubin, C. Bülow, T. Gitzinger, B. von Issendorff, J. T. Lau, and V. Zamudio-Bayer., *Iron L3-Edge Energy Shifts for the Full Range of Possible 3d Occupations within the Same Oxidation State of Iron Halides*, Phys. Chem. Chem. Phys. **24**, 19890 (2022).
- [27] M. Schmitt, M. Mayländer, T. Heizmann, S. Richert, C. Bülow, **K. Hirsch**, V. Zamudio-Bayer, J. T. Lau, and I. Krossing, *Isolation and Characterization of the Homoleptic Nickel(I) and Nickel(II) Bis-Benzene Sandwich Cations*, Angew. Chem. Int. Ed. **61**, e202211555 (2022).
- [26] M. Tombers, J. Meyer, J. Meyer, A. Lawicki, V. Zamudio-Bayer, **K. Hirsch**, J. T. Lau, B. von Issendorff, A. Terasaki, T. Schlathölter, R. Hoekstra, S. Schmidt, A. K. Powell, E. Kessler, M. H. Prosenc, C. van Wullen, and G. Niedner-Schattburg, *Mn₁₂-acetate complexes studied as single molecules*, Chem. Eur. J. **28** e202102592 (2022).
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- [24] M. Walter, M. Vogel, V. Zamudio-Bayer, R. Lindblad, T. Reichenbach, **K. Hirsch**, A. Langenberg, J. Rittmann, A. Kulesza, R. Mitrić, M. Moseler, T. Möller, B. von Issendorff and J. T. Lau, *Experimental and theoretical 2p core-level spectra of size-selected gas-phase aluminum and silicon cluster cations: chemical shifts, geometric structure, and coordination-dependent screening*, Phys. Chem. Chem. Phys. **21**, 6651-6661 (2019).
- [23] V. Zamudio-Bayer, **K. Hirsch**, A. Langenberg, A. Ławicki, A. Terasaki, B. von Issendorff and J. T. Lau, *Large orbital magnetic moments of small, free cobalt cluster ions Co_n⁺ with n<=9*, J. Phys.: Condens. Matter **30**, 464002 (2018).
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- [16] V. Zamudio-Bayer, **K. Hirsch**, A. Langenberg, M. Kossick, A. Ławicki, A. Terasaki, B. von Issendorff, and J. T. Lau, *Direct observation of high-spin states in manganese dimer and trimer cations by x-ray magnetic circular dichroism spectroscopy in an ion trap*, J. Chem. Phys. **142**, 234301 (2015).
- [15] **K. Hirsch**, V. Zamudio-Bayer, A. Langenberg, M. Vogel, J. Rittmann, S. Forin, T. Möller, B. von Issendorff, and J. T. Lau, *Impurity Electron Localization in Early-Transition-Metal-Doped Gold Clusters*, J. Phys. Chem. C **119**, 11184 (2015).
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