

List of Publications

1. G. Santambrogio, E. Janssens, S. Li, K. R. Asmis, J. Döbler, M. Sierka, and J. Sauer, *Small closed-shell aluminum oxide cluster ions. IR-photodissociation spectroscopy and DFT study, in preparation* (2007).
2. E. Janssens, G. Santambrogio, L. Wöste, P. Lievens, J. Sauer, J. Döbler, G. Meijer, and K. R. Asmis, *Spectroscopy of a chemical reaction: $V_4O_{10}^+$ with propane, in preparation* (2007).
3. G. Santambrogio, M. Brümmer, L. Wöste, J. Döbler, J. Sauer, G. Meijer, and K. R. Asmis, *Gas phase vibrational spectroscopy of mass-selected vanadium oxide cluster anions, submitted to J. Chem. Phys.* (2007).
4. K. R. Asmis, , Y. Yang, G. Santambrogio, M. Brümmer, J. R. Roscioli, L. R. McCunn, M. A. Johnson, and O. Kühn, *Gas-Phase Infrared Spectroscopy and Multidimensional Quantum Calculations of the Protonated Ammonia Dimer $N_2H_7^+$, submitted to Angew. Chem. Int. Ed.* (2007).
5. S. Feyel, H. Schwarz, K. R. Asmis, G. Santambrogio, C. Daniel, H. Hartl, J. Döbler, J. Sauer, and D. Schröder, *Gas-phase infrared photodissociation spectroscopy of tetravanadium-oxo and -oxo-methoxo cluster-anions, accepted by Chem. Phys. Chem.* (2007).
6. K. R. Asmis, G. Santambrogio, J. Zhou, E. Garand, J. Headrick, D. Goebbert, M. A. Johnson, and D. M. Neumark, *Infrared multiple photon dissociation of the hydrated electron clusters $(H_2O)_{15-50}^-$, J. Chem. Phys.* **126** (2007), 191105–1–5.
7. M. Sierka, J. Döbler, J. Sauer, G. Santambrogio, M. Brümmer, L. Wöste, E. Janssens, G. Meijer, and K. R. Asmis, *Unexpected structures of gas phase aluminum oxide clusters, Angew. Chem. Int. Ed.* **46** (2007), 3372–3375.
8. J. Zhou, G. Santambrogio, M. Brümmer, D. T. Moore, L. Wöste, G. Meijer, D. Neumark, and K. R. Asmis, *Infrared spectroscopy of hydrated sulfate dianions, J. Chem. Phys.* **125** (2006), 111102–1–4.

9. E. Janssens, G. Santambrogio, M. Brümmer, L. Wöste, P. Lievens, J. Sauer, G. Meijer, and K. R. Asmis, *Isomorphous substitution in bimetallic oxide clusters*, *Phys. Rev. Lett* **96** (2006), 233401–1–4.
10. K. R. Asmis, G. Santambrogio, M. Brümmer, and J. Sauer, *Polyhedral vanadium oxide cages: Infrared spectra of cluster anions and size-induced d-electron localization*, *Angew. Chem. Int. Ed.* **44** (2005), 3122–3125.
11. K. R. Asmis, G. Meijer, M. Brümmer, C. Kaposta, G. Santambrogio, L. Wöste, and J. Sauer, *Gas phase infrared spectroscopy of mono- and divanadium oxide cluster cations*, *J. Chem. Phys.* **120** (2004), 6461–6470.
12. M. Brümmer, C. Kaposta, G. Santambrogio, and K. R. Asmis, *Formation and photodepletion of cluster ion-messenger atom complexes in a cold ion trap: Infrared spectroscopy of VO^+ , VO_2^+ , VO_3^+* , *J. Chem. Phys.* **119** (2003), 12700–12703.
13. K. R. Asmis, N. Pivonka, G. Santambrogio, M. Brümmer, C. Kaposta, D. M. Neumark, and L. Wöste, *Gas-phase infrared spectrum of the protonated water dimer*, *Science* **299** (2003), 1375–1377.
14. K. R. Asmis, M. Brümmer, C. Kaposta, G. Santambrogio, G. von Helden, G. Meijer, K. Rademann, and L. Wöste, *Mass-selected infrared photodissociation spectroscopy of $V_4O_{10}^+$* , *Phys. Chem. Chem. Phys.* **4** (2002), 1101–1104.