

Markus Koch and Wolfgang E. Ernst, publications on ultrafast spectroscopy

1. Pascal Heim, Sebastian Mai, Bernhard Thaler, Stefan Cesnik, Davide Avagliano, Dimitra Bella-Velidou, Wolfgang E. Ernst, Leticia González, and Markus Koch, Revealing ultrafast population transfer between nearly degenerated electronic states, *J. Phys. Chem. Lett.* **11**, 1443-1449 (2020), <https://pubs.acs.org/doi/pdf/10.1021/acs.jpcllett.9b03462> .
2. Alexander Schiffmann, Benjamin W. Toulson, Daniel Knez, Roman Messner, Martin Schnedlitz, Maximilian Lasserus, Ferdinand Hofer, Wolfgang E. Ernst, Oliver Gessner and Florian Lackner, Helium Droplet Mediated Synthesis of CoO Nanowires and their Characterization by Ultrashort XUV Pulse Absorption Spectroscopy, *J. Appl. Phys.* **127**, 184303-1-7 (2020), <https://doi.org/10.1063/5.0004582> .
3. Bernhard Thaler, Ralf Meyer, Pascal Heim, Sascha Ranftl, Johann V. Pototschnig, Andreas W. Hauser, Markus Koch, and Wolfgang E. Ernst, Conservation of Hot Thermal Spin-Orbit Population of ^{2}P Atoms in a Cold Quantum Fluid Environment, *J. Phys. Chem. A* **123**, 3977–3984 (2019), <https://pubs.acs.org/doi/10.1021/acs.jpca.9b02920> .
4. Pascal Heim, Michael Rumetshofer, Sascha Ranftl, Bernhard Thaler, Wolfgang E. Ernst, Markus Koch, and Wolfgang von der Linden, Bayesian Analysis of Femtosecond Pump-Probe Photoelectron-Photoion Coincidence Spectra with Fluctuating Laser Intensities, *Entropy* **21**, 00093-1-18 (2019), <https://www.mdpi.com/1099-4300/21/1/93>, <https://doi.org/10.3390/e21010093> .
5. Bernhard Thaler, Sascha Ranftl, Pascal Heim, Stefan Cesnik, Leonhard Treiber, Ralf Meyer, Andreas W. Hauser, Wolfgang E. Ernst, and Markus Koch, Femtosecond photoexcitation dynamics inside a quantum solvent, *Nature Communications* **9**, 4006-1-6 (2018), <https://www.nature.com/articles/s41467-018-06413-9> .
6. M. Rumetshofer, P. Heim, B. Thaler, W. E. Ernst, M. Koch, W. von der Linden, Analysis of femtosecond pump-probe photoelectron-photoion coincidence measurements applying Bayesian probability theory, *Phys. Rev. A* **97**, 062503-1-18 (2018), <https://link.aps.org/doi/10.1103/PhysRevA.97.062503> .
7. Markus Koch, Bernhard Thaler, Pascal Heim, and Wolfgang E. Ernst, The role of Rydberg-valence coupling in the ultrafast relaxation dynamics of acetone, *J. Phys. Chem. A* **121**, 6398-6404 (2017), <http://pubs.acs.org/doi/10.1021/acs.jpca.7b05012> .
8. Markus Koch, Pascal Heim, Bernhard Thaler, Markus Kitzler, and Wolfgang E. Ernst, Direct observation of a photochemical activation energy: A case study of acetone photodissociation, *J. Physics B: Atomic, Molecular and Optical Physics* **50**, 125102 (8pp) (2017), <http://iopscience.iop.org/article/10.1088/1361-6455/aa6a71> .
9. Paul Maierhofer, Markus Bainschab, Bernhard Thaler, Pascal Heim, Wolfgang E. Ernst, and Markus Koch, Disentangling Multi-Channel Photodissociation Dynamics in Acetone by Time-Resolved Photoelectron-Photoion Coincidence Spectroscopy, *J. Phys. Chem. A* **120**, 6418-6423 (2016), <http://pubs.acs.org/doi/abs/10.1021/acs.jpca.6b07238> .