Alexandra Landsman

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Education and Training

Dartmouth College, Physics, B.A. 1998
Princeton University, Plasma Physics, PhD 2005

Research and Professional Experience

2019-present	Tenured Associate Professor, Ohio State University, USA.
2015-2019	Group Leader, Max Planck Institute for the Physics of Complex Systems.
2013-2015	Senior Scientist, Institute of Quantum Electronics, ETH Zurich.
2011-2013	Marie Curie Senior Scientist, Institute of Quantum Electronics, ETH Zurich.
2010-2011	Research Scientist, Department of Physics, ETH Zurich.
2008-2009	Tenure-track assistant professor, James Madison University, USA.
2005-2008	National Research Council Postdoctoral Fellow, Washington DC, USA.

Selected papers

(1) Extraction of higher-order nonlinear electronic response in solids using high harmonic generation, S. Han, L. Ortmann, H. Kim, Yong Woo Kim, T. Oka, A. Chacon, B. Doran, M. Ciappina, M. Lewenstein, S.W. Kim, S. Kim, A.S. Landsman, *Nature Communications*, **10**, 3272 (2019).

(2) Wannier-Bloch approach to localization in high harmonic generation in solids, E. Osika, A. Chacon, L. Ortmann, N. Suarez, J. Perez-Hernandez, B. Szafran, M. Ciappina, F. Sols, A.S. Landsman, and M. Lewenstein, *Physical Review X*, **7**, 021017 (2017).

(3) Orientation-dependent stereo Wigner time delay and electron localization in a small molecule, J. Vos, L. Cattaneo, S. Patchkovskii, T. Zimmermann, C. Cirelli, M. Lucchini, A. Kheifets, A.S. Landsman, U. Keller, *Science*, **360**, 6395 (2018).

(4) Probing molecular environment through photoemission delays, S. Biswas, B. Foerg, L. Ortmann, J. Schoetz, W. Schweinberger, T. Zimmermann, L. Pi, D. Baykusheva, H. Masood, I. Liontos, A. Kamal, N. Kling, A. Alharbi, M. Alharbi, A. Azzeer, G. Hartmann, H.J. Woerner, A.S. Landsman, M.F. Kling, *Nature Physics*, 16 (7), 778, (2020).

(5) Unified approach to probing Coulomb effects in tunnel ionization for any ellipticity of laser light, A.S. Landsman, C. Hofmann, A.N. Pfeiffer, C. Cirelli and U. Keller, *Phys. Rev. Letters*, 111, 263001, (2013).

(6) Emergence of a higher energy structure in strong field ionization with inhomogeneous electric fields, L. Ortmann, J.A. Perez-Hernandez, M.F. Ciappina, A. Chacon, M.F. Kling, L. Roso, M. Lewenstein, A.S. Landsman, *Phys. Rev. Letters* 119, 053204, (2017)

(7) Probing non-adiabatic effects in strong-field tunnel ionization, R. Boge, C. Cirelli, A.S. Landsman, S. Heuser, A. Ludwig, J. Maurer, M. Weger, L. Gallmann, U. Keller, *Phys. Rev. Letters*, 111, 103003, (2013).

(8) Tunneling time and weak measurement in strong field ionization, T. Zimmermann, S. Mishra, B.R. Doran, D. Gordan, and A.S. Landsman, *Phys. Rev. Letters*, 116, 233603, (2016).

(9) Attosecond science and the tunneling time problem, A.S. Landsman and U. Keller, *Physics Reports*, **547**, 1-24 (2015).

(10) Ultrafast Resolution of Tunneling Delay time, A.S. Landsman, M. Weger, J. Maure, R. Boge, A. Ludwig, S. Heuser, C. Cirelli, L. Gallmann, U. Keller, *Optica,* 1, 343, (2014).

Journals

Editorial Board Member for *New Journal of Physics*, Referee for *Science, Nature, Nature Physics, Nature Photonics, Nature Communications, Physical Review Letters, Phys. Rev. A, Phys. Rev. B, Journal of Physics B.*