

Louis F. DiMauro

Hagenlocker Chair of Physics/Professor of Physics
Department of Physics
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EDUCATION

B.S. Hunter College CUNY, 1975
Ph.D. University of Connecticut, Physical Chemistry, 1980

PROFESSIONAL EMPLOYMENT

Hagenlocker Chair of Physics, OSU, 10/04-present
Senior Chemist, BNL, 9/98-9/04
Adjunct Professor of Physics, Stony Brook, 9/89-present
Guest Physicist, LLNL, 1/94-present
Chemist, BNL, 9/92--9/98
Associate Chemist, BNL, 9/90-9/92
Assistant Chemist, BNL, 1/88-9/90

HONORS AND AWARDS

2004 Science & Technology Award, BNL
Fellow of the American Physical Society
Fellow of the Optical Society of America
Fellow of the American Association for the Advancement of Science
Connecticut State Pre-doctoral Fellowship (1978 & 1979)

ACTIVITIES

Division Chair, APS-DAMOP (2008-2011)
Team Leader, LCLS AMOS collaboration (2004-present)
APS DAMOP Executive Committee (2003-08)
NSF AMOP Review Panel (2003)
DOE Lehman Review Panel for LCLS (2003)
APS DAMOP Fellowship Committee (2002-03)
Chairman Multiphoton Gordon Conference (2002)
Co-Convener SAUUL committee and workshop (2002)

LIST OF PUBLICATIONS (105 PUBLICATIONS TOTAL)

1. **“Strong Field Photoionization revisited”**, C.I. Blaga, F. Catoire, P. Colosimo, G. G. Paulus, H. G. Muller, P. Agostini and L. F. DiMauro, *Nature Phys.* **5**, 335-338 (2009).
2. **“Attosecond synchronization of high harmonics from mid-infrared drivers”**, G. Doumy *et al.*, *Phys. Rev. Lett.* **102**, 093002 (2009).
3. **“Scaling strong-field interactions towards the classical limit”**, P. Colosimo *et al.*, *Nature Phys.* **4**, 386 (2008).
4. **“Scaling of wave-packet dynamics in an intense midinfrared field”**, J. Tate *et al.*, *Phys.*

- Rev. Lett. **98**, 013901 (2007).
5. **“Enhanced high harmonic generation from an optically prepared excited medium”** P. M. Paul *et al.*, *Phys. Rev. Lett.* **94**, 113906 (2005).
 6. **“Self-Referencing, Spectrally, or Spatially Encoded Spectral Interferometry for the Complete Characterization of Attosecond Electromagnetic Pulses”**, E. Cormier, I. A. Walmsley, E. M. Kosik, A. S. Wyatt, L. Corner, and L. F. DiMauro, *Phys. Rev. Lett.* **94**, 033905 (2005).
 7. **“The physics of attosecond light pulses”** P. Agostini and L. F. DiMauro *Reports on Progress in Physics* **67**, 813 (2004).
 8. **“Yield and temporal characterization of high order harmonics from intense mid-infrared excitation of a cesium vapor”**, T. O. Clatterbuck, P. M. Paul, C. Lynga, B. Sheehy, L. F. DiMauro, P. Agostini, K. C. Kulander and I. A. Walmsley, *Phys. Rev. A* **69**, 033807 (2004).
 9. **“Observation of a Transition in the Dynamics of Strong-Field Double Ionization”**, J. L. Chaloupka, J. Rudati, L. F. DiMauro, P. Agostini and K. C. Kulander, *Phys. Rev. Lett.* **90**, 033002 (2003).
 10. **“Scaled Intense Laser-Atom Physics: The Long Wavelength Regime”**, T. O. Clatterbuck, C. Lynga, P. Colosimo, J. D. D. Martin, B. Sheehy, L. F. DiMauro, P. Agostini and K. C. Kulander, *J. Mod. Optics* **50**, 441 (2003).

COLLABORATORS (LAST 4 YEARS)

Gerhard Paulus (Texas A&M, USA), Christoph Hauri (LOA, France), R. Lopez-Martens (LOA, France), Kenneth Kulander (LLNL, USA), Pascal Salieres (Saclay, France), T. Auguste (Saclay, France), H. G. Muller (FOM Amsterdam), B. Carre (Saclay, France), A. Huetz (Orsay, France), H. Rottke (MPI, Germany), T. A. Miller (OSU), P. Agostini (OSU), David Reis (Stanford).

POSTDOCTORAL AND GRADUATE STUDENT ADVISOR (LAST 5 YEARS)

Jan Chaloupka (College Wm & Mary), Kevin Schultz (Austin Peay State University), Jennifer Tate (LSU), Fabrice Catoire (Marseilles), Gilles Doumy (OSU), Ilya Lachko (OSU), Anthony DiChiara (OSU), Cosmin Blaga (OSU), Todd Clatterbuck (Raytheon), Juana Rudati (Xradia), Phil Colosimo (Virginia Tech), Anne Marie March (Argonne National Laboratory), Razvan Chirla (OSU), Jonathan Wheeler (OSU), Emily Sistrunk (OSU), Christoph Roedig (OSU), Stephen Schoun (OSU), Kaikai Zhang (OSU).