

Curriculum Vitae

Mohammed Hassan

Current Address

Max Planck Institute of Quantum Optics
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Personal

Born: March 30, 1983, Fayoum, Egypt.
Status: Married (1 daughter).
Citizenship: Egyptian.
Language: Arabic (native), English (fluent).

Research Experience / Education

- **Ph.D. in exp. Physics** (since Jul 2009)
Ph.D. advisors: Dr. E. Goulielmakis, Prof. Dr. F. Krausz
MPI of Quantum Optics / LMU Munich, Germany.
Dissertation: Attosecond control utilizing light field synthesis pulse.
- **International Max Planck Research School on Advanced Photon Sciences (IMPRS-APS)** (since Jul 2009)
MPI of Quantum Optics, Garching, Germany.

- **M.Sc (thesis) in laser interaction with matter** (2006/2009)
 Advisor: Prof. Y. Badr, National Institute of laser Enhance
 Science (NILES), Cairo University, Egypt
 Thesis: Biological application of laser technology using metallic nanoparticles.
- **Diploma in laser interaction with matter (ranking #1) 2006** (2004/2006)
 Advisor: Prof. Y. Badr, National Institute of laser
 Enhance Science (NILES), Cairo University, Egypt.
 Subjects: Laser Interaction with Matter.
 The graduation project: (Interference & Interferometric Techniques).
- **B.Sc. in Chemistry 2003** (1999/2003)
 Faculty of Science, Cairo University, Egypt.
 The graduation project: (Corrosion and Corrosion of Mild Steel)
- **High School (Thanwia Amaa) 1999** (1996/1999)
 Jamal Abd-El Nasser high school, (Science branch), Fayoum, Egypt.

Working Practice

- **Research Assistant** (Sep 2007- May 2009)
 Prof. M. Gouda, Dr. M. Elashry, British University in Egypt (BUE)
 (Preparation and study nanofibers and nano-composites polymer).
- **Teaching Assistant** (Sep 2007- May 2009)
 Prof. M. Gouda, Dr. M. Elashry, British University in Egypt (BUE)
- **Research Assistant** (Oct 2004-Sep 2007)
 Prof. Y. Badr, National Institute of laser Enhance
 Science (NILES), Cairo University, Egypt
 (Laser interaction with matter)

Patent:

- **Natural synthesized gold nanoparticles for cancer treatment (Patent # 382/2009)**

Honors and Awards

- Award of Excellence for the outstanding undergraduate students in Science, Four years (2000-2003).
- Certificate of Estimation for the great effort as chief of student union, Faculty of science, Cairo University, Egypt.

Grants & Scholarships

- IMPRS-APS (Germany) (since 2009)

Scholarship in the framework of the;

International Max Planck Research School on Advanced Photon Sciences

- ASRT-NILES (Egypt) (2004-2007)

Egyptian Scientific Research Academy Master Fellowship for outstanding Graduate student in Science;

National Institute of laser Enhance Science (NILES), Cairo University, Egypt

International Oral Conference Presentations.

[C1] M. Hassan et al., 'Sub-optical-cycle waveform light synthesis, CLEOII, May 201, Munich, Germany.

[C3] M. Hassan et al., 'Sub-optical-cycle waveform light synthesis, ATTOFEL Network Meeting, Feb 2011, Berlin, Germany

[C4] M. Hassan et al., 'Preparation and study nanofibers and nano-composites polymer, International Conference on Advanced Materials for Application in Acoustics and Vibration AMAAV, Jan 2009, Cairo, Egypt.

[C5] M. Hassan et al., Biological Application of Laser Technology Using Metallic Nanoparticles, the Second international conference of Modern Trends in Physics Research ,MTPR, Jan 2006, Cairo- Luxor, Egypt.

Publications.

[PI] A. Wirth, M. Hassan, I. Grguras, J. Gagnon, A. Moulet, T.T. Luu, S. Pabst, R. Santra, Z. Alahmed, A.M. Azzeer, V.S. Yakovlev, V. Pervak, F. Krausz and E. Goulielmakis, Synthesized Light Transients, **SCIENCE**, DOI: 10.1126/science.1210268 (2011).