

Dr. Mahmoud Ahmad



Assistant Professor
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Research Interests:

Computational Atomic physics
Laser diode Spectroscopy and Optoelectronic Devices
Metallic nanoparticles and its applications

Language Skills

Arabic, English, and German

Qualification (Career and University Education)

1992-1995	B. Sc. Degree (Physics & Mathematics)	Grade "Very good", Faculty of Science, Al-Azhar University Assuit Branch, Egypt
1996-1997	Pre-Courses for M. Sc	Faculty of Science, Al-Azhar University
1997-2002	M. Sc. Degree (Theoretical solid state Physics)	Faculty of Science, Al-Azhar University Assuit Branch, Egypt
2003-2006	Research on Atomic Structure calculations	Faculty of Science- Physics Dep.- Cairo university
2006-2010	PhD Degree Applied Physics	Department of Electro technique /Informatics Faculty of Engineering, Kassel University, Germany

Career

1996-2003	Demonstrator at Department of Physics, Faculty of Science, Al-Azhar University Assuit Branch, Egypt
2003-2006	Assistant Lecturer at Department of Physics, Faculty of Science, Al-Azhar University Assuit Branch, Egypt
2010-2014	Lecture at Department of Physics, Faculty of Science, Al-Azhar University Assuit Branch, Egypt
2014-Present	Assistant Professor at Department of Physics, Faculty of Science, Majmaah University, Saudi Arabia

Scholarships

2006-2010	Ph.D Scholarship at Institute of nano structural technologies and analytics (INA) - Department of Electro technique /Informatics Faculty of Engineering, Kassel Germany
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Publications

- 1- H. Krause, J. Sonksen, **M. Ahmad**, V. Viereck, O. Mikami, and H. Hillmer, **Aufbau eines faserbasierten Laserresonators mit zwei Fabry-Pérot Kavitäten und einer gemeinsamen aktiven Zone für Sensorikanwendungen**, 109. DGaO Konferenz, B24+, 2008. http://www.dgao-proceedings.de/download/109/109_b24.pdf
- 2- Julian Sonksen, **Mahmoud Ahmad**, Nico Storch, Hubert Krause, Sven Blom, Alexander Potzl, Hartmut Hillmer, " **Controlling and Tuning the Emission of Semiconductor Optical Amplifier for Sensor Application by Means of Fiber Bragg Gratings**" Proceedings of the 8th WSEAS International conference on Microelectronics, Nanoelectronics, Optoelectronics (MINO '09),59,2009. <http://www.wseas.us/e-library/conferences/2009/istanbul/MINO/MINO09.pdf>
- 3- **M. Ahmad**, J. Sonksen, N. Storch, H. Krause, J. Shrestha, S. Blom, A. Pötzl, B. Khudhair, and H. Hillmer, " **Semiconductor laser based sensors for intelligently networking sensing systems**" Seventh International Conference on Networked Sensing Systems(INSS2010) Kassel, Germany, Jun 2010, p. 101-106,. (ISBN 978-1-4244-7909-2). <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=5574062>
- 4- **M. Ahmad**, and H. Hillmer" **Highly Sensitive Sensor Based on Intracavity Laser Absorption Spectroscopy By means of Relative Intensity Noise**" The Fourth Arab International Conference in Physics and Materials Science (4th CPMS Conference 2012) Alexandria, Egypt
- 5- E. R. Shaaban, E. A. Abdel Wahab, **M. Ahmad**" **Optical characterization of As-S thin films induced by plasma immersion Oxygen ion implantation**" physica scripta 2013 <http://iopscience.iop.org/1402-4896/88/1/015703>
- 6- Abou El-Maaref, **Mahmoud Ahmad** and S.H. Allam" **Fine-structure calculations of energy levels, oscillator strengths and transition probabilities for Sulfur-like Fe XI**" Atomic data and nuclear data tables (2013) <http://www.sciencedirect.com/science/article/pii/S0092640X13000880>
- 7- **Mahmoud M Ahmad**, Essam A Abdel-Wahab, A A El-Maaref, Mohammed Rawway, Essam R Shaaban " **Irradiation of silver and agar/silver nanoparticles with argon, oxygen glow discharge plasma, and mercury lamp**" *SpringerPlus* 2014, **3**:443 <http://www.springerplus.com/content/3/1/443>

Teaching Experience

General Physics	Al Azhar University
Atomic physics	Al Azhar University
Digital & Analog electronics	Al Azhar University
Quantum Mechanics	Al Azhar University
Optics Physics	Al Azhar University

Conferences

Attended the Sensor+Test conference	Nuremberg ,Germany	2009
Seventh International Conference on Networked Sensing Systems(INSS2010) Kassel	Kassel, Germany	2010
The Fourth Arab International Conference in Physics and Materials Science (4th CPMS Conference 2012)	Alexandria, Egypt	2012

Practical Computer Skills

Very good experience in Matlab Software.

Very good experience in FORTRAN.

Very good experience in latex.

Very good experience in Linux systems(Suse, Ubuntu and RedHat)
