
CURRICULUM VITAE

Personal Data

Dr. Mohamed Rashad Shehata Ahmed

<http://scholar.google.com/eg/citations?user=ycQ1aAYAAAAJ&hl=en>



Gender	: Male	Occupation	: Lecturer, Assiut Uni.,
Nationality	: Egyptian	Home Tel.	: +2 088 2355090
Date of Birth	: June 16, 1977.	Mobile	: +2 01060195885
Place of Birth	: Assiut – Egypt.	Office Fax.	: +2 088 342708
Marital Status	: Married		
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RESEARCH INTERESTS:

- Preparation of transition metal oxides Nanoparticles with a high photoluminescence (PL) quantum yield.
- Characterization of structural, optical, and thermal properties of nanocrystals.
- Preparation of multi-layers thin film using MBE.
- Thin film deposition and characterization.

ACADEMIC QUALIFICATIONS

- B. Sc. in Physics (1999), Grade: Very Good (Accumulative 80.1%)
- Place of Graduation: Physics Dept. Assiut University, Assiut 71516, Egypt.
- M. Sc. In Experimental Physics “Thin Films” (2004);
- Thesis Title: “Influence of Li Content on the Structural, Optical and Electrical Properties of ZnO Films Prepared by Chemical Bath Deposition Method’.
- Place of Graduation: Physics Dept., Assiut University, Assiut 71516, Egypt.
- Ph. D. In Experimental Physics “Nano-Technology ” (2010);
- Thesis Title: “Photo-induced effects in colloidal nano-crystals embedded in semiconductor films’.
- Place of Graduation: Physics Dept., Assiut University, Assiut 71516, Egypt as a channel system together with university of Paderborn, Germany.
- The experimental work of the PhD degree have been done at (june 2008-june 2010) in university of Paderborn, Paderborn Germany, under supervisor of Prof. Klaus Lischka, head of optoelectronic Semiconductor Group in university of Paderborn, Germany
- Reviewer for some international journals Superlattices and Microstructures journal (Elsevier) impact factor 1.25

EMPLOYMENT HISTORY

- Demonstrator at physics Department, Assiut University (Jun. 2000 to Jun. 2004).
- Assistant Lecturer at Physics Department, Assiut University (Jun. 2004 till 2010).
- Lecturer at Physics Department, Assiut University (2010 till now).
- Group member of Optoelectronic Semiconductor Group, Paderborn University, Paderborn, Germany (June 2008 to June 2010).
- Member of the faculty affiliation” with KACST-Intel Center of Excellence in Nano-manufacturing (CENA) in Suida Arabia (2010 till now). <http://cena-consortium.org/egypt.html>
- Group member of nanoscience Group, Tabuk University, KSA (2013 to now).
- Assistant professors at Physics Department, Tabuk University (August 2013 till now).

RESEARCH EXPERIENCES

- From University of Paderborn, Germany:
 - High Vacuum Technique
 - Molecular Beam Epitaxy (MBE)
 - High Resolution X Ray Diffraction (HRXRD)
 - Photolumensinsce (PL)
 - Micro Photolumenscence
 - Preparation of multilayers of thin films by MBE
 - Colloidal nano crystals
- From University of Assiut, Egypt:
 - Bulk Sample Preparation
 - Thin Film Preparation
 - Optical and Electrical Measurements
 - Structure investigations of bulk and thin film specimen using X-ray diffraction and Electron Microscopy.

COMPUTER SKILLS

- International Computer Driving Licence (ICDL)
 - Information Technology (IT).
 - Operating System.
 - Microsoft office 2000 Package (Word-Excel-Power Point-Database-Presentations)
 - Information Communication (IC).

EXPERIENCES (Training courses)

- Teaching Large Classes (FLDC)
- Research Team Management (FLDC)
- Why to compute for research fund (FLDC)
- International publishing (FLDC)
- Examination systems and evaluate students (FLDC)
- Strategic Planning (FLDC)

(FLDC) is the Faculty and Leadership Development Center- Assiut University

FOREIGN LANGUGE

- English Language
TOEFL Local Score (403) on American AmidEast Educational & Training Services (2004)
TOEFL international Score (453) on American AmidEast Educational & Training Services (2007)
- German Language (2007)
3rd level (Grundstuff III) (400 hours) on the international Based Test

INTERNATIONAL CONFERENCES

A. H. Moharram, A. Abu El-Fadl, **M. Rashad**

2007 Japan-China-Asturalia Cooperative Symposium on Material Science and Nanotechnology, Faculty of Engineering, university of Toyama, Japan 14-17th Nov. 2007 has presented on Oral presentation with title (Photo-induced absorption change in thermally evaporated Arsenic Selenides films)

M. Rashad, M. Paluga, A. Pawlis, K. Lischka, D. Schikora, M. V. Artemyev and U. Woggon

The 14th International Conference on II-VI compounds (II-VI-2009) by the Ioffe Institute of the Russian Academy of Sciences in Saint-Petersburg, Russia, August 23-28 (2009) has presented on Oral presentation with title (MBE overgrowth of ex-situ prepared CdSe colloidal nanocrystals).

M. Rashad, M. Paluga, A. Pawlis, D. Schikora, K. Lischka, Erick M. Larramendi, O. Schops, M. V. Artemyev and U. Woggon

Quantum Dot 2010 East Midlands Conference Centre, Nottingham, UK (26–30 April 2010) has presented on Oral presentation with title (Excitonic emission of colloidal nanocrystals embedded in MBE grown ZnSe)

J. Kampmeier, **M. Rashad**, A. Pawlis, D. Schikora, K. Lischka

Euro-MBE 2011 Conference, France (20–23 March 2011) has presented on Poster presentation with title (Emission of colloidal nano-crystals embedded in MBE grown ZnSe microstructures)

International workshop on Nanotechnology-based Economy and its Applications”
Hilton Dream, Dreamland, 6th October City 21-23 June 2011, Cairo Egypt

M. Rashad, A. H. Moharram, A. Gaber, M. A. Abdelrahim

3th International advances in applied physics and material science congress, Antalya, Turkey (24–28 April 2013) has accepted on Poster presentation with title (Synthesis and characterizations of some metal oxide nanocrystals by microwave irradiation).

A. M. Abdel-Baset, M. A. Abdelrahim, **M. Rashad**

3th International advances in applied physics and material science congress, Antalya, Turkey (24–28 April 2013) has accepted on Poster presentation with title (Reverse Monte Carlo Simulation of $\text{Se}_{80}\text{Te}_{20}$ and $\text{Se}_{80}\text{Te}_{15}\text{Sb}_5$ Glasses).

PUBLICATIONS

- A. Abu EL-Fadl, Galal A. Mohamed, A. B. Abd El-Moiez, and **M. Rashad**
Optical constants of ZnO films prepared by chemical bath deposition technique
J. Appl. Physics Physica B 366 (2005) 44-54
- Abu EL-Fadl, Galal A. Mohamed, A. B. Abd El-Moiez, and **M. Rashad**
Li-doping effects on the electrical properties of ZnO films prepared by the chemical-bath deposition method
J. Appl. Physics Physica B 370 (2005) 158–167
- M. Rashad**, M. Paluga, A. Pawlis, K. Lischka, D. Schikora, M. V. Artemyev and U. Woggon
MBE overgrowth of ex-situ prepared CdSe colloidal nanocrystals
Phys. Stat. Sol. (c) 6 (2010) 1523
- M Rashad**, A Pawlis, M Paluga, D Schikora, K Lischka, O Schöps, M V Artemyev and U Woggon
Excitonic emission of colloidal nano-crystals embedded in Molecular Beam Epitaxy grown ZnSe
J. Phys., JPCS, 245 (2010) 012006
- J. Kampmeier, **M. Rashad**, U. Woggon, M. Ruth, C. Meier, D. Schikora, K. Lischka, A. Pawlis
Enhanced photoluminescence of colloidal nano crystals embedded in epitaxial grown semiconductor microstructures
Phys. Rev. B 85 (2012) 155405
- A.H. Moharram, M. Abu El-Oyoun, **M. Rashad**
Crystallization Kinetics of two overlapped Phases in $As_{40}Te_{50}In_{10}$ glass
Thermochimica Acta 555 (2013) 57– 63
- A. H. Moharram, S. A. Mansour, F. Al-Marzouki, Asma. A. Hendi, **M. Rashad**
Photo-induced changes in Arsenic Selenide films
Materials Science-Poland, 31(1) (2013) pp. 139-145
- A. H. Moharram, S. A. Mansour, F. Al-Marzouki, Asma. A. Hendi, **M. Rashad**
Photo-induced changes in Arsenic Selenide films
Materials Science-Poland, 31(1) (2013) pp. 139-145
- M. Rashad**, M. Rüsing, G. Berth, K. Lischka, and A. Pawlis
CuO and Co_3O_4 nanoparticles: synthesis, characterizations and Raman spectroscopy
Journal of Nanomaterials, volume (2013) Article ID 714853
- M. Rashad**, A. H. Moharram, A. Gaber, M. A. Abdelrahim, A. M. Abdel-Baset
Synthesis and characterization of some metal oxide nanocrystals by microwave irradiation
AIP Conference Proceedings 1569, 402 (2103)
- A. M. Abdel-Baset, M. A. Abdelrahim, **M. Rashad**
Reverse Monte Carlo Simulation of $Se_{80}Te_{20}$ and $Se_{80}Te_{15}Sb_5$ Glasses
AIP Conference Proceedings 1569, 3 (2103)

A. H. Moharram, S. A. Mansour, M. A. Hussein, and **M. Rashad**
Direct Precipitation and Characterization of ZnO Nanoparticles
Journal of Nanomaterials, volume (2014) Article ID 716210

M. Rashad, R. Amin, M. M. Hafiz
Sn Addition on $\text{Se}_{80}\text{Te}_{20-x}\text{Sn}_x$ Glass Alloys, Theoretically Prediction and Experimental
Optical Properties of Thin Films
International Journal of Enhanced Research in Science Technology & Engineering,
ISSN: 2319-7463 Vol. 3 Issue 4, (2014), pp: (1-14) (impact factor 1.25)

M. Rashad, R. Amin, M. M. Hafiz
Crystallization kinetics of glassy Se–Te–Sn alloys
Accepted to Canadian Journal of Physics (2015)

SUPERVISION of THESIS

M. Sc. Experimental Physics “Nano-materials”
Preparation characterization of some applied nano-materials
Asmaa El sayed

M. Sc. Experimental Physics “Nano-materials”
Preparation characterization of some applied nano-materials
Emad Abdel Rahman

M. Sc. Experimental Physics “semiconductor-materials” passed 2015
Synthesis and characterizations of bulk and thin film Se Te Sn memory chalcognide
alloys
Rasha Mohamed Amin

M. Sc. Experimental Physics “Nano-materials”
Preparation characterization of some applied nano-materials
Zenab

TEACHING EXPERIENCE

Course Titles: Optics
Teaching Frequency: 2 hours/week (Faculty of Pharmacy)
Level: first level

Course Titles: Bio-Physics
Teaching Frequency: 3 hours/week (Faculty of Science)
Level: third level

Course Titles: Bio-Physics
Teaching Frequency: 2 hours/week (faculty of Pharmacy)
Level: first level

Course Titles: Bio-Physics
Teaching Frequency: 1 hours/week (Faculty of Veterinary Medicine)

Level: first level

Course Titles: Electricity

Teaching Frequency: 2 hours/week (Faculty of Engineering)

Level: first level

Course Titles: Laser

Teaching Frequency: 2 hours/week (faculty of Science)

Level: fourth level

REFERENCES

[1] Prof. Dr. Klaus Lischka

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Faculty of Science

Paderborn University

Paderborn, Germany

E-mail: klischka@mail.upb.de

[2] Prof. Dr. Abdel Rahem Hassan Moharram

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