

Curriculum Vitae

Yasmin Mohammed Yousry Mahmoud

Address: 35 El Gel El Geded st,
El Mahrousa, Alexandria, Egypt
Land: +2-03-532-1802
Mobile: +2-101-089-7143

Date of Birth: 27 / 02 / 1989
Nationality: Egyptian
Email: yasmin_yousry66@yahoo.com

Work Address: Department of Materials Science, Institute of Graduate Studies and Research,
Alexandria University, 163 Horrya Avenue, P.O. Box 832, Alexandria, Egypt

EDUCATION

2016-Present: **PhD student in Mechanical Engineering Department, National University of Singapore, Singapore.**

2015-2016: **PhD student in Materials Science, Institute of Graduate Studies and Research Alexandria University, Alexandria Egypt.**

2012-2014: **Master Degree in Materials Science, GPA: 4.0/4.0 Institute of Graduate Studies and Research Alexandria University, Alexandria Egypt.**

Dissertation titled "Fabrication and Characterizations of Inverted Polymer Solar Cells"

2011: **Bachelor Degree, College of Engineering Communications and Electronics Engineering, Alexandria University. (Distinction with Degree of Honor) "Rank 7"**

Graduation project: Indoor radio planning by distributed antenna systems.

Excellent

EMPLOYMENTS

8/2012- 2014: Demonstrator, Materials Science Department, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

8/2012- Present: Research Assistant in many national and international projects, Institute of Graduate Studies and Research (IGSR), Department of Materials Science, Alexandria University, Alexandria Egypt:

- "Hybrid Multi-Junction High Efficiency Polymeric Photovoltaic Cells Project" funded by Science and Technology Developments Funds (STDF)
- "Production of Inexpensive Photovoltaic Modules based on Local Materials and Know How" funded by (STDF)
- "Euro-Mediterranean Cooperation on Research & Training in Sun Based Renewable Energies" Funded by Seventh Frame Work Program (FP7).
- "Product Development and Innovation: A Postgraduate Curriculum for Engineering funded by (TEMPUS European Commission).

7/2014 – Present: Lecturer assistant, Institute of Graduate Studies and Research (IGSR), Department of Materials Science, Alexandria University, Alexandria Egypt

RESEARCH INTERESTS

- Organic and Inorganic Solar Cells (Fabrication, Optimizations and Evaluations).
- Piezoelectric and Thermoelectric Materials, Processing and characterization.
- Sensors
- Optical fiber systems.
- Electronics and Communication systems.
- Computational Methods and Computer Simulations for Materials Science (Microstructure, Electrical, Optical, Magnetic, Transport Phenomena in Solids and Structure evaluations).

PUBLICATIONS

- **Yasmin M. Yousry**, Ayman M. Mohamed, Moataz M. Soliman, “Ruthenium Oxide as a New Buffer Layer for Inverted Polymer Solar Cells”, 4th International Workshop on Solar Energy for Sustainability “Photosynthesis and Bioenergetics”, 21 to 24 March 2016, Nanyang Technological University “NTU”, Singapore.
- Said, Laila Saad, **Yasmin M. Yousry**, and Ayman M. Mohamed, “Graphene as a Counter Electrode in Dye Sensitized Solar Cells”, 4th International Workshop on Solar Energy for Sustainability “Photosynthesis and Bioenergetics”, 21 to 24 March 2016, Nanyang Technological University “NTU”, Singapore.
- Ayman Mahmoud, **Yasmin Yousry**, Shaker Ibrahim, Moataz Soliman, “The Effect of ITO Surface Treatment on the Performance of Polymer Solar Cells”, (In Progress).
- Moataz Soliman, Shaker Mabrouk, Mohamed Abd El lateif, Mohamed El Saftawy, **Yasmin Yousry**, Enas Moustafa “The Possibility of Using Commercially Available Resins for Protecting Heliostat” (Accepted abstract)

EXPERIENCE

- Participated in writing proposals and performed preliminary experiments regarding projects submitted for funds to (STDF), Institute of Graduate Studied and Research Department of Materials Science, Alexandria University Alexandria Egypt.
- Considerable Knowledge in the following scientific equipment:
 - Kiethely Meter.
 - Spin Coating.
 - Thermo-Electric Devices.
 - UV-Visible Spectrophotometer.
 - FTIR
 - Optical Microscope.
 - Optical Thickness Meter.
 - Weathering Chamber.

- Electro spinning.
- Vacuum Coating system (Edward Evaporator).
- Rotary Evaporator.
- 4-Point Probe.
- 2-Point Probe.
- Potentiostat for electrochemical measurements (Gamry).
- Centrifuge.
- pH meter.
- TDS meter.
- Laminator.
- RO Testing Unit.
- Muffle Furnaces.
- Contact Angle Goniometer.
- Viscometer.

TEACHING EXPERIENCE

University/ institution	Course title	language of instruction
Alexandria University, (IGSR)	Materials Structure	English
Alexandria University, (IGSR)	Materials Properties	English
Alexandria University, (IGSR)	Materials For Renewable Energy	English
Alexandria University, (IGSR)	Nanotechnology and its applications	English

Many national and international lecturers concerning Nanotechnology and Energy applications.

TRAINING AND INTERNSHIPS

- Summer 2008 Alexandria Electrical Company.
- Summer 2010 Telecom Egypt Company.
- International Workshop sponsored by DAAD “Current Development in Materials Science/Physics with Relevance to Photovoltaic”, (3 -5 December 2012), Institute Of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- 14th international Arab Conference for Materials Science, (1 -3 December 2012, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt).
- EUROSUNMED first International School & Workshop on Photovoltaic, Concentrated Solar Power, Storage and Grid Integration, (7- 11 April 2014, Rabat, Morocco).
- Materials for Solar Energy Applications Workshop, (21-23) June 2014, Institute of Graduate Studies and Research (IGSR), Alexandria University, Alexandria, Egypt.

- International School of Solid State Physics 62nd Course, “Materials for Renewable Energy”, Erice (Italy), July 12th- 18th, 2014.
- Fellowship in Surface Engineering Department, IK4-TEKNIKER, Spain, Feb-March 2015.
- EUROSUNMED second International School & Workshop on Photovoltaic, Concentrated Solar Power, Storage and Grid Integration, (27- 31 March 2015, Sharm El Shikh, Egypt).

COMPUTATIONAL SKILLS

- Office Package.
- Mat lab.
- C#.
- Solid works.
- Sonnet.
- Multisim.
- AUTOCAD.

POSTGRADUATE COURSES

- Materials Processing.
- Materials Properties.
- Materials Characterization.
- Materials Structure.
- Science and Technology of Nanomaterial.
- Polymeric Materials.
- Physics of Semiconductors.
- Materials for Renewable Energy.
- Physics of solar cells
- Conducting Polymers and their Applications
- Fuel Cells Technology
- Integrated Circuits
- Nanotechnology Enabled Sensors
- Nanotechnology for Optoelectronics

LANGUAGES

- Arabic (native language).
- English, very good (read, write and speak).
- French (some).

HOBBIES

- Running and Fitness.
- Literature Reading.
- Table Tennis.
- Watching scientific films and documentaries.

MEMBERSHIPS IN SCIENTIFIC AND CULTURAL SOCIETIES

- **2008- Present** Member in Institute of Electrical and Electronics Engineers (IEEE).
- **2013- Present** Member in Arab Society of Materials Science.
- **2014- Present** Member in Bibliotheca Alexandrina.
- **2014- Present** Member in Materials Research Society (MRS).

REFERENCES

- Prof. Moataz-Bellah Mohamed Soliman.
Chairman of Materials Science Department, Institute of Graduate Studies and Research,
Alexandria University Alexandria, Egypt.
E-mail: msoliman@ieee.org
msoliman2@yahoo.com
- Prof. Fuad Ahmed Abulfotuh.
Professor, Materials Science Department, Institute of Graduate Studies and Research
Alexandria University Alexandria, Egypt.
E-mail: fuadpv1@iseet.org
- Prof. Osama El-Bayoumi, US Air Force (Ret).
Emeritus Professor, Materials Science Department, Institute of Graduate Studies and
Research Alexandria University Alexandria, Egypt.
E-mail: osamaelbayoumi@yahoo.com