

## C.V

Name: Samir Mahdi Abdul Al- Mohsin

Nationality: Iraqi

Religion: Muslim

Sex: Male

Place and date of Birth: Iraq/Thi-Qar 1/7/1975

Status: Married

University: Thi-Qar College: Science Dep.: Physics

E-mail: Samir\_mahdi@47yahoo.com.

Studies Certification:

Certification	Year	Specialization	Sequence	Average	University	Country
Secondary School	1993/1994	Branch Scientific	4/45	78.129		Iraq
B.Sc	1997/1998	General physics	1/25	70.549	Basrah	Iraq
M.Sc	2000/2001	Solid stat Physics	2/4	79.125	Basrah	Iraq
M.Sc.	2012	Organic Solar cells		91	UALR	USA
Ph.D	2013	Applied Physics		93	UALR	USA

General Specialization: Physics

Academic Status

Status

Assistant Lecturer

Lecturer

Date

24/8/2002

9/5/2005

M.Sc. Thesis: Preparation of Conductive Polymer Blends: PolyPyrrole and Polythiophene Blends with Poly (Vinyle Al Cohol) and study their Conducting and Mechanical Properties.

Ph.D. Dissertation:

ORGANIC-INORGANIC HYBRID NANOSTRUCTURES FOR SOLAR CELL APPLICATIONS.

### **List of Publications in USA**

[1] AbdulAlmohsin, S.; Mohammed, M.; Li, Z.; Thomas, M.; Wu, K.; Cui, J., Multi-

Walled Carbon Nanotubes as a New Counter Electrode for Dye-Sensitized Solar Cells.

*J Nanosci Nanotechno* **2012**, *12* (3), 2374-2379.

[2] AbdulAlmohsin, S.; Cui, J., Graphene-Enriched P3HT and Porphyrin-Modified ZnO Nanowire Arrays for Hybrid Solar Cell Applications. *The Journal of Physical Chemistry C* **2012**, *116* (17), 9433-9438.

[3] AbdulAlmohsin, S.; Li, Z.; Mohammed, M.; Wu, K.; Cui, J., Electrodeposited polyaniline/multi-walled carbon nanotube composites for solar cell applications.

*Synthetic Metals* **2012**, *162* (11), 931-935. [4] AbdulAlmohsin, S.; Armstrong, J.; Cui, J., CdS nanocrystal-sensitized solar cells with polyaniline as counter electrode. *Journal of Renewable and Sustainable Energy Reviews* **2012**, *4*, 043108.

[5] AbdulAmohsin, S.; Cui, J. In *Surface modified ZnO nanorod arrays for hybrid solar cell applications*, Photovoltaic Specialists Conference (PVSC), 2012 38th IEEE, IEEE: 2012; pp 002296-002300.

[6] AbdulAmohsin, S.; Cui, J.; Mohammed, M., Study on ZnO/P3HT: PCBM Nanowire Solar Cells. Photovoltaic Specialists Conference (PVSC), 2013 39th IEEE, IEEE: 2013; pp 003366-003371.

[7] Preparation: Solid State Dye Sensitive Solar Cells Based on ZnO Nanowire with nanocomposite SWCNTS-PPY, SWCNTS-PANI, and SWCNTS-PT. as HTM

S. AbdulAlmohsin and J.B.Cui

[8] S.AbdulAlmohsin ,S.M.Al-Mutoki,and Z.Li,Electrochemical Polymerization of PPy-MWNTs composite as a counter electrode for Dye Sensitive Solar Cells . *Journal of Arkansas Academy of science*, Vol.66, 2012.Page31-35.

[10] S.AbdulAlmohsin ,S.M.Al-Mutoki,and Z.Li,Fabrication and Characteerization of Aluminum –doped ZnO/PANI Hybrid Solar Cells *Journal of Arkansas Academy of science*, Vol.66, 2012.Page26-30.

[11] S.AbdulAlmohsin ,S.M.Al-Mutoki,and Z.Li Al/PANI-MWNT/Au-Plastic Schottky Diode Solar Cells . *Journal of Arkansas Academy of science*, Vol.66, 2012.Page36-40.

### List of Publications in IRAQ

1-Conductive polymer Blends: poly aniline blends with poly (vinyle chloride) and their Redox Properties. Published in Thi-Qar Journal University.

2-Electrochemical preparations of conductive polymer of polyaniline blend with poly (vinyle chlorid) and study of mechanical properties. Published in thi-qar journal university.

3- Environment Radiological Pollution from the Use of Depleted Uranium Weaponry Against Thi qar Governorate during 2003 War Published in Thi-qar Journal University

4-Electrochemical preparations of conductive polymer of polyaniline blend with poly (vinyle al-cohol) and study of conducting properties. Published in basrah Journal University

5- Electrochemical preparation of conductive polymer of polypyrrole blends with poly (carbonate) and study of electrical properties, published in Al- Qadisiya Journal/putrescence.

6- Environment Radiological Pollution from the Use of Depleted Uranium Weaponry on Graph River during The War Published in Thi-qar Journal University

7- Environment Radiological Pollution from the Use of Depleted Uranium Weaponry on Kamessaia Region 1991 War Published in Thi-qar Journal University

8- "Multi-Walled Carbon Nanotubes as a New Counter Electrode for Dye-Sensitized Solar Cells " S. AbdulMohsin, M. Mohammed, Z. Li, M. A. Thomas, K. Y. Wu, and J. B. Cui *J. Nanoscience. Nanotechnology.* 12, (2012), 2374-2379

### 14 Al/PANI-MWNT/Au-Plastic Schottky Diode Solar Cells

Samir AbdulMohsin<sup>1</sup>, Sabah Mohammed AL-Mutoki, and Zhongrui Li  
Journal of Arkansas Academy of Science, Vol 67,PP.107, 2012

### 15- Electrochemical Polymerization of PPy-MWCNT composite as a Counter Electrode for Dye-sensitized Solar Cells

Samir AbdulMohsin<sup>1</sup>, Sabah Mohammed AL-Mutoki<sup>2</sup>, and Zhongrui Li  
Journal of Arkansas Academy of Science, Vol 66,PP78, 2012

### 16 - Fabrication and Characterization of Aluminum-doped ZnO/PANI Hybrid Solar Cells

Samir AbdulMohsin<sup>1</sup>, Sabah Mohammed AL-Mutoki, and Zhongrui Li

Journal of Arkansas Academy of Science, Vol 67,PP.130, 2012

### Education:' Has Certification experience in the following subjects

- 1.Computer Science
- 2.Teaching Methods

3- English Language

***The materials that teaching them in Physics Department***

*Thermodynamic/ General physics/modeling and simulation computer/digital electronics/ deferential equitations/ laser/electromagnetic waves /classical mechanic /Polymer/ physics atom/word and excel/ Quick Basic/ Nuclear physics*