$\underline{C.V}$

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

Official E-mail: samer75_phy@sci.utq.edu.iq

Studies Certification:

Certification	Year	Specialization	Sequence	Average	Universit	Country
					y	
Secondary	1993/1	Branch	4/45	78.129		Iraq
School	994	Scientific				
B.Sc	1997/1	General	1/25	70.549	Basrah	Iraq
	998	physics				_
M.Sc	2000/2	Solid stat	2/4	79.125	Basrah	Iraq
	001	Physics				
M.Sc.	2012	Organic Solar		91	UALR	USA
		cells				
Ph.D	2013	Applied		93	UALR	USA
		Physics				

General Specialization: Physics

Academic Status and Professional position:

<u>Status</u>	<u>Date</u>
Assistant Lecturer	24/8/2002
Lecturer	9/5/2005
Assistant Professor	25/3/2014
Ph.D	11/1/2015
Professor	10/2/2020

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.

Supervisor

- 1- Anwar Nazar Hussein (2015) Studying the structure and optical properties of CuO Films prepared by Chemical Spray Pyrolysis .
 - 2-Ayat Abed Ali Katan(2017) " Fabrication and study on Solid State dye Sensitized Solar Cell based on TiO2 Nanoparticales and MWCNTS as a counter electrode"

- 3-Tahssein Faleh (2018)(Quantum efficiency of TiO2,CdSe,and CdS quantum dotes solar cells.)
- 4- Hader Hussain (2019))(Quantum efficiency of GaN /GaNTa) quantum dotes solar cells.)
 - 5- AbdulKhalq Mohammed Rashed (2020)(Nanocomposite materials base Microbial fuel cells)
 - 6- Ruanq. H .Sakban (2020)(Glucose Bio Sensor base on nanocomposite TiO2/Graphene)
 - 7- Zainb Abdulsada (Organic perovskites solar cells)

Super visor for Ph.D student

1- Dhuha E. Tareq (Quantum dotes Perovskits solar cells)(2021).

Member of Discussions

- مناقشة رائد دكتوراه -1
- مناقشة ايات شرهان طالبة ماستر -2
- مناقشة بهاء الدين قاسم ٤ -3
- طالب الماجستير عبد الخالق محمد -4
- طالبة الماجستير هدير حسن ذجر -5
- مناقشة طالبة الماجستير سمر مزهر مرداس -6
- الاشر اف على رسالة الست زينب عبد السادة -7

Writing and Research

- [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] Abdul Almohsin, 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] S.AbdulAlmohsin , ,and S.Mohammed,M.Mohammed Nanowire/N719 dye/PolyThiophene-SWNT nanocomposite Solid State Dye Sensitized Solar Cells,Automation ,Control and intelligent systems January 23,2015
 - [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.
 - [12] S.AbdulAlmohsin , ,and Z.Li ZnO Nanowire/N719 dye/Polypyrrole-SWNT nanocomposite Solid State Dye Sensitized Solar Cells,IEEE 40
 - [13] ANWAR NAZAR HUSSEIN1, SHAWKI KHALAF MUHAMMAD1, SAMIR ABDAUL MOHSIN1 AND FOUAD NIMR AJEEL1, STUDY ON STRUCTURE AND OPTICAL PROPERTIES OF CuO THIN FILMS PREPARED BY CHEMICAL SPRAY PYROLYSIS, Journal of applied physical science international 25 August 2015 4(3) 178-184.
 - [14] FABRICATION AND STUDY ON SOLID STATE DYE SENSITIZED SOLAR CELL BASED ON TiO2 NANOPARTICALE AND MWCNTS AS A COUNTER ELECTRODE

AYAAT ABD-ALI¹ AND SAMIR MAHDI ABDULALMOHSIN^{2*}

Journal of applied physical science international 2016

- [15] Raman shift of silicon rubber-Nano titania PMNC .Sabah M.AlMotoki,and Samir M.AbdulAlmohsin Journal of Silicate and Composite Materials V.69,No.1.2017
- [18] Tunable mechanisms of quantum efficiencies in CdSe and
- TiO₂ quantum dot solar cells Tahseen Dakhil, Samir M. Abdulalmuhsin, and Amin Habbeb AL-Khursan

https://doi.org/10.1364/AO.57.000612,

[19] Adjustable Quantum Efficiency Mechanisms in CdS/MgZnO Heterostructures Quantum Dot Solar Cells

Samir M.AbdulAlmohsin b*,

, Alaa Ayad Khedhair Al-mebir a,*, and Sadeq Kh-Ajeel b.

[20] QE of cadmium sulphide QD photo detectors

ahseen Dakhil, Samir M.AbdulAlmohsin

Dr.Amin Habbeb Al Khursan

IET Digital Library 2018, **Source: Volume 13, Issue 8**, August 2018, p. 1185 – 1187

DOI: 10.1049/mnl.2017.0777, Online ISSN 1750-0443

[22] Quantum Effiency of Tigan/Gan Quantum Dot Sollar Cells with Varying of Environment Temperature (Test Engineering and mangment)

[23] AbdulAlmohsin, S. M., & Tareq, D. E. (2020). Fabrication and simulation of peroviskite solar cells comparable study of CuO and Nano composite PANI/SWCNTS as HTM. *AIMS Energy*, 8(2), 169.

[24] Hassan, Hadeer, Samir M. Abdulalmuhsin, and Amin Habbeb Al-Khursan.

"Thallium quantum dot photodetectors." *Optical and Quantum Electronics* 52.2 (2020): 55.

[25] Enhanced photovoltaic conversion of ZnO/PANI/NiOx heterostructure devices with ZnO nanorod array M Mohammed, S AbdulAmohsin, Z Li, L Zheng Nano Express 1 (3), 030016

[26] Efficiency of TiO2/Peroviskites/Cu2O Solar Cells with Optimal Thickness at Varying of Environment Temperature

DE Tareq, SM AbdulAlmohsin, HH Waried

[27] High Efficiency (41.85) of Br Perovskites base solar cells with ZnO and TiO2 comparable study as ETM DE Tareq, SM AbdulAlmohsin, HH Waried

IOP Conference Series: Materials Science and Engineering 928 (7), 072091,2020

[28]Perovskite solar cells based on CH3NH3SnI3 Structure

DE Tareq, SM AbdulAlmohsin, HH Waried

IOP Conference Series: Materials Science and Engineering 928 (7), 072148

List of Publications in IRAQ

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

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

18- Environment Radiological Pollution from the Use of Depleted Uranium Weaponry Against Thi qar Governorate during 2003 War Published in Thi-qar Journal University 19-Electrochemical preparations of conductive polymer of polyaniline blend with poly (vinyle al-cohol) and study of conducting properties. Published in basrah Journal University

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

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

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

24 Al/PANI-MWNT/Au-Plastic Schottky Diode Solar Cells

Samir AbdulAlmohsin¹, Sabah Mohammed AL-Mutoki, and Zhongrui Li Journal of Arkansas Academy of Science, Vol 67,PP.107, 2012

- 25- Electrochemical Polymerization of PPy-MWCNT composite as a Counter Electrode for Dye-sensitized Solar Cells Samir AbdulAlmohsin¹, Sabah Mohammed AL-Mutoki², and Zhongrui Li Journal of Arkansas Academy of Science, Vol 66,PP78, 2012
- 26 Fabrication and Characterization of Aluminum-doped ZnO/PANI Hybrid Solar Cells

Samir AbdulAlmohsin¹, Sabah Mohammed AL-Mutoki, and Zhongrui LiJournal of Arkansas Academy of Science, Vol 67,PP.130, 2012

[27] Study on Dye-sensitized Solar Cells based on ZnO Nanorods and Graphene Enhanced P3HT as HTM

Samir Mahdi AbdulAlmohsin¹, Fouad Nimr Ajeel², and Shakir Abdul-Hussein Al-Saidi³

1, 2,3College of Science, Department of Physics, Thi Qar University, Thi Qar, IRAQ (مجلة كلية العلوم)

[28] The Radiological Survey of the River Sediment Passing in Dhi Qar Governorate Samir Mahdi Abdulmuhsen, Journal of Babylon University/Pure and Applied Sciences/ No.(4)/ Vol.(23): 2015.

[29] Modeling of electron localization in a quasi-one-dimensional tight-binding chain

S. A. Al-Seadi¹, S.M.AbdulAlmohsin, and S.K.Ageel, Journal of ThiQar University, volume 17,N19 [30] Ramman Shift of silicon rubber-nano titania PMNC Samir AbdulAlmohsin, EPTOAN YAG, 2017

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/ Ouick Basic/ Nuclear physics /Electricity and Magnetism/nanotechnology /English Language

Google Scholar

Citation: 222 H-index: 8

Linguistic and scientific evaluation of Dissertations and thesis

Number of dissertations are 8 Numbers of thesisare 23