***Curriculum Vitae***

**Marwa Abdul Muhsien Hassan**

***Mustansiriyah University – College of Science***

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 **Personal Summary:**

2003-2007 Under graduate studies at Al- Mustansiriyah University, College of Science, Department of Physics. 2007-2010 Graduate studies at Al-Mustansiriyah University, College of Science, Department of Physics, M.Sc. thesis"Construction and characterization of MIS Heterojunction devices " 2009- until now Member at Al-Mustansiriyah University, College of Science, Department of Physics staff.

 **Education:**

* M.Sc.
* B.Sc.

 **ACADEMIC HONORS AND AWARDS:**

* Patent NO. G11C11/41 in 4/10/20110

Preparation and characterization of (metal –oxide-semiconductor) (MIS) Device.

* Patent NO.H01L31/00 in 07/05/2015

**Fabrication and characterization of Ag2O/Si and Ag2O/PSi/c-Si Heterojunction devices for solar cell**

* **Patent NO. G01N27/00 in 28/07/2015**

**Preparation and Characterization of ZnO:TiO2 Nanocomposite for Gas Sensing Applications**

 **ACADEMIC /TEACHING EXPERIENCE:**

* Construction of nanomaterial

**COURSES TAUGHT:**

|  |  |
| --- | --- |
| **Undergraduate** | **Graduate** |
| مختبر حاسبات, مختبر بصريات | مختبر دراسات عليا |

**PROFESSIONAL AFFILIATIONS:**

* Chairman, Diversity Committee
* President,

**PUPLICATIONS:**

* *Optical and electrical properties of SnO2 thin film prepared using RTO method* ***(International Journal of Modern Physics B,******Vol. 25, No. 8, p. 1081–1089, 2011)****.*
* *Preparation and characterization of MIS device for optoelectronic Application* ***(Hindawi Publishing Corporation International Journal of Optics Volume 2013, Article ID 756402, 9 pages*** [***http://dx.doi.org/10.1155/2013/756402***](http://dx.doi.org/10.1155/2013/756402)***)****.*
* *Construction of SnO2/SiO2/Si Heterojunction and its Lineup Using I-V and C-V Measurements****(International Journal of Modern Physics B,******Vol. 25, No. 8, p. 3863–3869, 2011)****.*
* *Synthesis of semiconductor oxide nanosheets, nanotetrapods and nanoplane-suite like grown on metal foil using different method (Int Nano Lett, springer, 2015).*
* *Synthesis and characteristics of screen printed ZnO thick films nanostructures grown using different methods (J Mater Sci: Mater Electron (2015) 26:4051–4061)*
* *Synthesis of titanium dioxide (TiO2) nanofiber and nanotube usingdifferent chemical method (Optik 127 (2016) 2996–2999).*

**PROFFESSIONAL DEVELOPMENT**

* ***Effects of Gamma Radiation on Optoelectronic properties Of Au/SnO2/n-Si (MIS) Heterojunction Devices*** *(International Conference on Mathematical Applications in Engineering (ICMAE’10), 3-4 August 2010, Kuala Lumpur, Malaysia) .*
* *Preparation and characterization of p-Ag2O/n-Si Heterojunction devices produced by rapid thermal oxidation* ***(Clean Energy Solutions for Sustainable Environment February 16-19, 2012 –Beirut, Lebanon)****.*
* *Piezosensors for Monitoring Degradation of Automotive Engine Oil* ***(accepted at IMCS 14 Conference, 2012, Germany)****.*
* *Al and Ga Nanoparticles Array Deposited on Silicon by UTAM for Sensors Applications* ***(Journal of Physics: Conference Series 450 (2013) 012056)****.*