

# CV



**Mohammad Mujahid Mohammad Hashim**

محمد مجاهد محمد هاشم  
أستاذ مساعد  
قسم الفيزياء - كلية العلوم  
جامعة تبوك - المملكة العربية السعودية

**Discipline:** Physics

**Teaching Experience: 5 years:** Has worked as an Assistant Professor in Physics, Department of Physics, Faculty of Science, University of Tabuk, Tabuk-71491 (KSA).

In the year 2013, I attended international symposium on Frontiers of Polymer Science during 21-23 May at Sitges, Barcelona, Spain and won best presentation certificate.

Reviewer and member of National Advisory board of National seminar held during 27-28 November 2014 at Faculty of Unani Medicine, Aligarh Muslim University, Aligarh (India)

تاريخ الميلاد (1970/01/03) (htriB fo etaD)  
رقم الجوال : (919412597082:AIDNI ni)  
البريد الالكتروني: (liam-e)  
[mujahidm72@gmail.com](mailto:mujahidm72@gmail.com)

دكتوراه في الفيزياء التطبيقية لعلوم المواد في تكنولوجيا النانو

عنوان الرسالة : تطبيقات اشعاعات الايونات الثقيلة على البوليمرات وتحسين الالكترود في مستوى النانو والميكرو للاجهزة

**(Specialisist in Nanomareials, its synthesis and characterization for solar cells)**

وقد حصلت على الدكتوراه من جامعة المعجل \_ بنيو دلهي , وجامعه أليجر الاسلامية \_ في الهند \_ سنة 2000م

**(Ph.D. in Applied Physics from Aligarh Muslim University, Aligarh (INDIA) in the year 2000**

وحاصل على ام فل في عام 1995 م  
وحاصل على ماجستير فيزياء في جامعة أليجر في الهند في عام 1993 م  
وحاصل على باكلوريوس في عام 1989 م

**Ph.D. in Applied Physics in the area of Material science and Nanotechnology** "Application of Swift Heavy ion irradiation on polymers and development of micro/nano electrodes for devices" from Inter University Accelerator center, New Delhi and Aligarh Muslim University, Aligarh (INDIA). The Ph.D. degree was awarded in the year 2000.

في سنة 2014 م انهييت بحث بعنوان: الاجهزة البصرية الالكترونية المعتمدة على بنية النانو لأكسيد المعادن من مواد اشباه الموصلات في جامعة تبوك ورقم البحث ( S-1435-0053 )

**Presently, in this year of 2014, I have finalized the project of Optoelectronic devices based on Nanostructure Metal Oxide Semiconductor Materials (project Number: S-1435-5300 working as the co-PI of University of Tabuk, KSA).**

University of Tabuk has also sanctioned two Projects in the year 2012 and I have worked in this project as a **PI** and **co-PI** on Application of ZnO nanowires for conservation of energy application (**Project number: S-1433-0034**), and Application of single crystal for energy conservation (**Project number: S-1434-0033**). The project was successfully finished under his PI and Co-PI on time.

In the year 2013, I Worked as a Co-PI of international Project "**Scientific Research and training for the development of Nanotechnology Research Laboratory at University of Tabuk**" given by University of Tabuk.

**Current Research Interest:** I am working for synthesis characterization electrical properties for Metal doped semiconductor for enhancement of phtocatalytic activity towards UV and Visible light that has application in photovoltaic (solar cells).

In parallel I am also working on study of material modification by **swift Heavy ion irradiation in polymers Makrofol KG, Makrofol N using dielectric spectroscopy.**

ولقد انجزت ما هو آتي :

- 1\_ القاء محاضرة في الملتقى الدولي من 27- 28 نوفمبر 2014 في كلية الطب بالجامعة الاسلامية في الهند
- 2\_ مراجع ضيف في المؤتمر الدولي الثالث للهندسة الطبية والتكنولوجيا الطبية والمعقد من 25- 27 سبتمبر في الصين
- 3\_ مراجع لمشروع في جامعة الملك عبدالعزيز في المملكة العربية السعودية
- 4\_ عضو نشط في قسم النانوتكنولوجي في جامعة تبوك
- 5\_ مراجع لعدد من الابحاث المنشوره في الزيفير
- 6\_ مشغل لجهاز الميكروسكوب الالكتروني الماسح وجهاز الاشعة الصينية وماسح الجهد الحلقي

**Merit: (1) chair one session (Chairperson) in the National seminar held during 27-28 November 2014 at Faculty of Unani Medicine, Aligarh Muslim University, Aligarh (India).**

**(2) Guest Reviewer of the 3 rd international conference on Biomedical engineering and Biotechnology (ICBEB-2014) to be held in 25-27 Sept at China.**

**(3) Permanent Reviewer Chosen on the basis of CV selection in the kingdom of KSA for of the KAST Project of King Abdul Aziz University, Saudi Arabia.**

**(4) Chosen as Active Member of the Departmental committee of Nanoscience at University of Tabuk.**

**(5) Reviewer of a number of Journals of Elsevier Publication.**

**(6) Trained to operate SEM (Scanning Electron Microscope) by FEI Company of Netherlands, XRD and Cyclic Voltgrams.**

**(7) Published one paper as a single author: Synthesis, characterization and electrical properties of visible light driven ZnO nanoparticle, Submitted to ISI journal of Bulletin of Material Science, Vol 38, no.4; August 2015, pp 995-1001.**

**Research publication**

**In 2015 (Three publications in refereed ISI journals)**

**Synthesis, characterization and electrical properties of visible light driven ZnO nanoparticle, Submitted to ISI journal of Bulletin of Material Science, Vol 38, no.4; August 2015, pp 995-1001 (Single Author publication).**

**Three Dimensional Spherically Evolved Nanostructures of ZnO comprised of Nanowires and Nanorods for Optoelectronic Devices. Journal of Nanoelectronics and optoelectronics, ISI journal having impact factor 0.51. Vol. 10, No.5; October 2015; pp.700-704.**

**Dielectric spectroscopy of Makrofol KG using Heavy ion irradiation. American Journal of Material Science and application. Vol.3, No.2; 2015, pp.14-17.**

#### **International conferences**

- (1) Polymer-based nanowires of ZnO/CdS by template synthesis ; From preparation to application in solar cell (Published in Souviounar of Elsevier Conference, 3 rd international conference at Barcelona, Spain in the year 2013).**
- (2) ZnO nano powder by assisted microwave hydrothermal method for Unani drugs. National seminal of Unani Medicine at India; 23 March 2013.**

#### **National Seminar/Conferences**

- 1. Controlled Production of submicron or nanometer pores in plastic foils**

**Paper presented in the 12<sup>th</sup> National Symposium, SSNTD Oct. 12-14, 1998, Amritsar, pp 312-314**

- 2. Growth of Potassium Iodide micro/nano structures using template method**

**Paper presented in the 3<sup>rd</sup> National Conference Solid State Physics .Dec. 25-27, 1999, Kalapakkam, pp 372-373.**

- 3. Dielectric Constant measurement of MeV Ion Irradiated Polycarbonates. Paper presented in the 3<sup>rd</sup> National Conference Solid State Physics .Dec. 25-27, 1999, Kalapakkam, pp 264-265**

#### **Total Publications to ISI international refereed journals**

**1. Dielectric constant and loss factor measurement of polycarbonate, Makrofol KG using Swift heavy ion O<sup>5+</sup>. Journal of 'Radiation Physics and Chemistry. 80, 4 (2010) 582-586(M. Mujahid, D.S. Srivastava, Shiuli Gupta, D. K. Avasthi).**

**2. Estimation of optical band gap and carbon cluster sizes formed by different dose in heavy ion irradiated polycarbonate. Journal of Radiation Physics and Chemistry. 74, 2 (2004) 118-122. (M. Mujahid, D.S. Srivastava, D. K. Avasthi).**

3. Study of chain scission versus cross linking in MeV ion- irradiated polycarbonate using dielectric constant measurement and UV spectroscopy. Journal of Radiation Physics.38,2(2004)197-203. (M. Mujahid, Padam Singh, D.S. Srivastava, Shiuli Gupta, D. K. Avasthi, D. Kanjilal).
4. A novel biosensors for determination of glucose based on MWCNTs/Pt nanocomposite. Open Science journal of bioscience and Bioengineering (2014); I (3); 40-46.(M. Mujahid,O.A. Al-Hartomy).
5. Synthesis and characterization of Zinc Oxide nanosheets for protection against multiple drug resistance bacteria. American journal of Biological Chemistry. 2014; 2(3); 17-22. (M. Mujahid,O.A. Al-Hartomy).
6. Synthesis, Characterization and electrical properties of visible light driven Pt-ZnO/CNT. Journal of Bulletin of Material science; Springer publication; ISI journal having impact factor 0.857. Vol. 38, No.4; August 2015; pp.995-1001. (M. Mujahid).
7. Dielectric spectroscopy of Makrofol KG using Heavy ion irradiation. American Journal of Material Science and application. Vol.3, No.2; 2015,pp.14-17(M. Mujahid,O.A. Al-Hartomy)
8. Three Dimensional Spherically Evolved Nanostructures of ZnO comprised of Nanowires and Nanorods for Optoelectronic Devices. Journal of Nanoelectronics and optoelectronics, ISI journal having impact factor 0.51. Vol. 10, No.5; October 2015; pp.700-704(Khan A., Khan S., Fawad U., Mujahid M., Khasim S. Hamdalla T, Kim H. J.)

**Name of References** : (1) **His Highness Dr. Omar A. Al-Hartomy** (My Honorable Dean Faculty of Science)  
 (2)Dr. Said A. Farha Al Said (My Honorable Dean Administration and registration, Faculty of science).  
 (3) Dr. Taha Hanafy (My Honorable Head of Department).

**It is to certify that the above all mentioned qualifications and experience are correct.**

*Md. Mujahid*

Place: AMU, INDIA; Date: 31/1/16

**(Dr. Mohammad Mujahid)**