

Curriculum Vitae

Awatif A. Hendi,
Full Professor

Faculty of Science King Saud University

Qualifications

- ❖ **Full Professor, Theoretical Physics - Nano technology, King Saud University (KSU) 2010.**
- ❖ **Associate Professor, Theoretical Physics and Nano technology, Department of Physics, King Saud University**
- ❖ **Ph.D. Theoretical Physics ; Princess Noura Bint Abdul Rahman University, Riyadh, Saudi Arabia**
- ❖ **M.Sc. Theoretical Physics: Princess Noura Bint Abdul Rahman University, Riyadh, Saudi Arabia**
- ❖ **B.Sc. (Hons) Physics, Princess Noura Bint Abdul Rahman University, Riyadh, Saudi Arabia**

PROFESSIONAL EXPERIENCE

- The Dean of College of Sciences and Humanities in Hail Bani Tamim, 2012-2016
- Physics Department, Vice Head, Faculty of Science, King Saud University (2007 to 10- 2009)
- Physics Department, Vice Head, Faculty of Science, King Saud University
- (1994-2004).
- Head of the Academic Affairs Committee - Faculty of Science, King Saud University (2000)

Materials taught:

All materials for the bachelor's degree and many master and doctoral subjects at King Saud University and some other universities such as Princess Noura University and Hail University

- ❖ **PhD: Quantum Mechanics 2 - Advanced Particle Physics - Advanced Quantitative Field Theory - Elective Materials (Computer Programming)**

- ❖ Master: Advanced Quantum Mechanics - Quantum Mechanics 2 - Quantitative Fields Theory 2 - Mathematical Physics -1 - Statistical Physics - Quantum Mechanics 2 - Mathematical Physics 2 - Master Thesis (Supervision) - Information Analysis - Relativity Theory - Research Methods - Classical Electric Dynamics -
- ❖ BA: Research Project - Mathematical Physics (3) - Quantum Mechanics - Quantum Mechanics (1) - Research Skills - Mathematical Physics 2 –

Awards and Creative Works

- Obtain the GCC Cooperation Prize for excellence in the field of science, 2015
- Obtain the Medal of Excellence Research - Ambition and homeland - the seminar of higher education for girls in the Kingdom from growth to competition - King Saud University - 1434 e.
- Award for Almarai Award for Scientific Creativity - the world's outstanding branch in the field of renewable energy at its eleventh session 2011.
- Obtain the Excellence Award for research in the first research excellence day, Faculty of Science, King Saud University, 2012.
- Obtained the Dean's Award for Excellence in Teaching at the College of Science, King Saud University, 2011.
- The third prize of the Union of the Universities of the Islamic World (ISU) of the Islamic Educational, Scientific and Cultural Organization (ISESCO) for the development of university research for the year 2010, the field of scientific research and the settlement of technology in the Islamic world.
- Prize for scientific creativity in physics for the ninth year in the field of physics 1430 AH / 2009

Published Patents

- NOBLE METAL NANOPARTICLES, METHOD FOR PREPARING THE SAME AND THEIR APPLICATION, United States Patent, US 9,463,510 B2, Oct. 11, 2016.
- Patent #: US009198434 . Method of inhibiting plant virus using gold nanoparticles · December2015;DOI:10.13140/RG.2.1.3600.5201;Patent: US000009198434B120151201 , 12/2015. N. Al Kubaisi,N. Aref ,Awatif Hindi
- Noble metal nanoparticles, method for preparing the same and their application, 03.06.2015 Bulletin 2015/23, EUROPEAN PATENT

APPLICATION , Awatif Hendi; Manal Awad; Khaled M. ORTASHI; Nada Elzein Eisa Omer.

- Porous noble metal oxide nanoparticles, method for preparing the same and their use, 31.08.2016 Bulletin 2016/35, EUROPEAN PATENT SPECIFICATION .AWATIF A. HENDI, MANAL A. AWAD KHALID M. O. ORTASHI and NADA E. EISA.

Symposiums and Conferences

- ❖ Poster Presentation in the International Work shop for Advanced Material (IWAM) February 2016, “Enhancement of the dye-sensitized solar cells performance using ZnONPs, TiO₂NPs and a composite of ZnO- TiO₂NPs” international workshop on Advanced Materials(IWAM-2016), Ras Al Khimah/UAE. <http://iwam-rakcam.com/program.html>
- ❖ Exploratory Characterization of Antibacterial Efficacy of Synthesized Nanoparticles on Staphylococcus Isolates from Hospital Specimens in Saudi Arabia ;Reham K. Sebah, Afaf I. Shehata, Awatif A. Hindi, Tarek Gheith, Amal A. Hazzani Anas Al-Orjan ;ICECE 2015 : 17th International Conference on Environmental and Civil Engineering; Boston, USA, April 20 - 21, 2015. <https://www.waset.org/abstracts/20305>
- ❖ The 7th International Conference on Optical Spectroscopy ,Laser and their Application ;18-20Oct.2016;NRC;Egypt“Smart Green Nanogold activity on Breast Cancer DMBA-induced in female Swiss Albino Mice”Egypt.
- ❖ IUPAC-2015 Busan,Korea ;48th IUPAC General Assembly 2015;48th IUPAC World Chemistry Congress;”Uses of Bio Nanosilver as Sterilizer with nontoxic effects on Health”
- ❖ KACST - 1433)2SINC() The 2nd Saudi International Nanotechnology Conference

Published Papers : Some of them

1. Manal.Awad,Awatif A. Hendi, Khalid. M. O. Ortashi, Mai A. Elobeid, Nada M. Merghani, Virk. P, Muzzammil Iqbal Siddiqui. Preparation, Characterization, and Antibacterial Agent of Eco Friendly Gold Nanorods. Tropical Journal of Pharmaceutical Research, February 2017; 16 (2): 1319-1326.

2. Awatif A. Hendi, Doaa Elnagar, Fatheah Al hakami ; Manal Awad; The potential effects of green synthesized silver nanoparticles on liver and Pancreas in Swiss albino mice ; Journal of Nano materials and molecular nanotechnology ; 5:7, 2016.
3. Manal A Awad, Awatif A Hendi, Khalid MO Ortashi, Reem A Alotaibi and Maha Sh Sharafeldin; Synthesis, Characterization of Silver Nanoparticles Using Wet Chemical Method and their Antibacterial and cytotoxicity activities; Tropical Journal of Pharmaceutical Research, April 2016. 15 (4): 679-685 Available online at <http://www.tjpr.org>, <http://dx.doi.org/10.4314/tjpr.v15i4.2>.
4. Manal. A. AWAD, N. E. EISA, A. S. A. MAHGOUB, A. A. HENDI, K. M. O. ORTASHI; MD Simulation Study the Collision of Diatomic H₂ (v=0, j=0) Molecule with Nanosize Copper Atomic Cluster (Cu₉).. Journal of Ovonic Research, Vol. 12, No. 5, September - October 2016, p. 245 - 251 , http://www.chalcogen.ro/245_AwadMA.pdf
5. Manal A. Awad, Nada E. Eisa, AbdAlla S. Mahgoub, Khalid M. O. Ortashi, Awatif A. Hendi, Effects of Rovibrational States (v_i=n, j_i=m) on the Dissociation of Hydrogen in Nanosized Atomic Copper Clusters. Optoelectronics and Advanced Materials-Rapid Communications Journal Nov 2016.
6. Manal A Awad, Khalid MO Ortashi, Awatif A Hendi, Nada E Eisa and F. Al-bbas; Novel Sol- Gel Green Nano-polymer Porous AuO, Growth, Characterization, and the effects of temperatures; Tropical Journal of Pharmaceutical Research, October 2015. 14(10):1763-1768; Available at: <http://www.tjpr.org>, <http://dx.doi.org/10.4314/tjpr.v14i10.5>.
7. M. A. AWAD, AWATIF A. HENDI, K. M. O. ORTASHI, R. A. EL DIB; Crystal powder silver nanoparticles green synthesized, characterization, antibacterial and cytotoxicity effects ; Journal of Optoelectronics and Advanced Materials-Rapid Communications. Vol. 9, No. 11-12, Nov. – Dec. 2015, p. 1520 – 1526. <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=93>.
8. Manal A. Awad · W. K. Mekhamer · Nada M. Merghani , Awatif A. Hindi · Nada E. Eisa; Green Synthesis, Characterization, and Antibacterial Activity of Silver/Polystyrene Nanocomposite ; · Journal of Nanomaterials · 22 July 2015 .

9. Sherif A El-Safty · Masaru Sakai · Mahmoud M Selim · Awatif A Hendi ; Mesosponge Optical Sinks for Multifunctional Mercury Ion-Assessment and Recovery from Water Sources ; ACS Applied Materials & Interfaces; May 2015 ·

10. Manal A. Awad , Awatif A. Hendi , Dalia F.A.Elradi , Khalid M. O. Ortashi, Nada E. Eisa , Lamia. A. Al-lahieb, Shorog. M. Al-Otiby, Nada M. Merghani and Abdelelah A. G. Awad;Silver Nanoparticles Biogenic Synthesized using an Orange Peel extract and their use as an anti-bacterial agent. International Journal of Physical Sciences, IJPS V.9(3), pp34-40, February, 2014.

Scientific societies:

- Member of the "American Society of Physics Professors Magazine" USA, 2012.
- Member of Physics, "Journal" Today, USA, 2012.
- Member of The Minerals, Metals & Materials Society:, 2015.

training courses :

1 - a training course entitled "Learning Management using the Blackboard system" Prince Sattam bin Abdul Aziz University 1436

2 - Center of Excellence for Science and Mathematics ECSME - "Simulation programs and their impact on learning and teaching science"

"PHET Simulation in Classroom and Their Effect On Science Learning" 2010; University of Colorado - Boulder; USA, 26/5/1431

3 - A training course for the system of bridges to manage e-learning - King Saud University - 2011

Scientific Communication:

There was scientific continuity at the University of St. Andrews in Britain in 2006 - the National University of Singapore 2008 - and the National Chemistry Laboratory in India 2009 - and at the Nanotechnology Laboratory in China 2010