CV

Triple Name: Dr. Amel D. Hussein

Country: Iraq

Place of work: Ministry of Higher Education and Scientific Research/ Wasit University/ College of Dentistry

Languages: Arabic and English

Degree: Ph.D. in Sciences of Physics

General specialty: Ph.D. in Philosophy of Physics

Detailed specialty: Nanoscience/ Renewable energies

Address: Wasit- Kut

Phone: +9647712606107

Email: amldeshar@yahoo.com, adashar@uowasit.edu.iq

Professional Profile:

A researcher in the field of preparing environmentally friendly nanomaterials, especially in the field of preparing and manufacturing nanogenerators and sensors, which can be used in various fields, for example in the field of renewable energy science, medicine, industry, and others. My interests also include working as a researcher in the field of chemical science research, preparing nanoscale dental filling materials, and various other fields.

Certificates of Appreciation:

(60) International and local certificate of appreciation.

Certificates and Educational Attainment:

-PhD in Philosophy of Physical Sciences from the College of Science/ Al-Mustansiriya University (2019).

-Master's degree in General Physics from the College of Science/ Wasit University (2015).

-Bachelor's degree in General Physics from College Ibn Al-Haytham Education /University of Baghdad (2000).

Scientific Achievements:

•Published several scientific research in the fields of renewable energies, preparation of nanomaterials, fabrication of nanogenerators and sensors in the first, second and third quarters in Scopus journals, and in international and local journals outside and inside Iraq.

• In addition to several researches during the publishing and writing time in the field of preparing nanomaterials, renewable energies, chemistry, and dental fillings.

•A patent for fabrication a nanogenerator that generates high voltages of up to 12 volts from polymer and ceramic 2020-2022.

• A community study on electronic smoking and its positive and negative effects on young people from the point of view of athletes in Wasit Governorate 2021.

Published Research:

1-Physical Sciences Research International; **Effect of decomposition temperature on the crystallite size and strain of CaO**: Abass Sattar Aboud, Essa Abass Fadhil, and Hussein Amel Desher. 2014.

2-First International Scientific Conference Al-Kut University College; **Characterization of ZnO/CuO Nano Composite Preparation by Thermal Chemical Spray Pyrolysis as Ammonia Gas Sensing**: Mutter Mahdi M, and Hussein Amel D. 2017.

3- Journal of the College of Education / Al-Mustansiriya University; **Fabrication of Stretchable PVDF Piezoelectric NanoGenerator**: Hussein* Amel D. et al. 2019.

4-Journal of Physics: Conference Series Paper. Open Access; **Effect of Adding $BaTiO_3$ to PVDF as Nano Generator**: Hussein* Amel D. et al. J. Phys: Conf. Ser, 2019

5-Materials Research Express; **Nanogenerator based on nanocomposites PVDF/ZnO with different concentrations**: Sabry Raad S. and Hussein* Amel D. 2019.

6- ELSEVIER: Material Characterization; **PVDF: ZnO/$BaTiO_3$ as high out-put piezoelectric nanogenerator**: Sabry Raad S, Hussein* Amel D. 2019.

7- MINAR: International Journal of Applied Sciences and Technology; **FABRICATION SENSORS BASED ON NANOCOMPOSITES ZnO/PVDF**: Amel D. Hussein* 2022.

8- Full-Text Book of Minar Congress 7: **GROWTH POWDER AND SEED LAYERS ZNO ON FOIL ALUMINUM USING HYDROTHERMAL METHOD**: Amel D. Hussein[1]* and Ali Muhsen Ali[2] 2022.

9- MINAR: International Journal of Applied Sciences and Technology; **DATA MODELLING OF LC/MS-BASED METABOLOMIC PROFILING TO COMPARE BETWEEN HUMAN PLASMA AND URINE SAMPLES ASSOCIATED WITH BEETROOT JUICE**: Ali Muhsen Ali[1]* and Amel D. Hussein[2] 2022.

10- Journal of Natural and Applied Sciences URAL; **Study the Effect of Concentration on Fabricated Fiber Polymer PVDF Using Electrospinning**: Amel D. Hussein 2023.

Scientific Skills:

• Participation as a member in scientific and preparatory committees for conferences outside Iraq.

• Work as an editorial member of the Journal of [Natural and Applied Sciences Ural].

• Participation as one of the honorary presidents of the posters and patents exhibition in Turkey outside Iraq.

• A certificate of participation in a scientific workshop that I attended at the Polytechnic University in Romania, after I was nominated by the Ministry of Higher Education and Scientific Research of Iraq in 2019.

• Attending a scientific workshop on how to deal with nuclear waste at the Ibn Al-Haytham College of Education in 2019.

• More than (50) certificates of participation in international, Arab and local workshops and electronic seminars in various fields in the years 2020-2023.

• A six-month research mission in Iran - Tehran to complete the practical part of the doctoral thesis 2018.

• Obtaining distinguished research at Al-Mustansiriya University in the field of sustainable development for the year 2020.

• Working as a scientific evaluator to review scientific articles for various scientific journals and publications for more than one international and global journal for Scopus, Taylor Francis, and others.

• Obtaining a patent for fabricating and preparing a nanogenerator that generates high voltage from polymer and ceramic materials 2020-2022.

• Received the Creativity Medal at the Seventh International Scientific Conference of the Remar International Academy of Pure, Applied and Technological Sciences in Turkey in 2022.

• Chosen as the honorary president of the Patents and Scientific Posters Exhibition of the Remer International Academy twice in Turkey in 2023.

Other Skills:

Work on Word, Excel and PowerPoint.

Identities:

Reading and traveling.