

# Curriculum Vitae

## PERSONAL

### **Amir Abdulrahman Ahmad**

Date of Birth: September 1, 1978

Place of Birth: Dihouk, Kurdistan

Nationality: Kurdish-Iraq

Visa Status: Permanent Resident.

Marital Statue: Married

#### **Address:**

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## EDUCATION

### **PhD in Nanotechnology, July 2014**

Jagiellonian University, Krakow, Poland, Institute of Physics, Astronomy and Applied Computer Science, Department of Nanostructures and Nanophysics

Thesis: *Engineering Nanostructures on Semiconducting Surfaces*

### **MSc in Physics, September 2003**

Salahaddin University, College of Science, Department of Physics

Erbil, Kurdistan, Thesis: *Thin Film preparation and characterization, optical and electrical Properties*

### **BSc in Physics, 1996-2000**

Salahaddin University, College of Science, Department of Physics

Erbil, Kurdistan ,Thesis: *Surface and Interface Physics*

## **EMPLOYMENT:**

Salahaddin University/ College of Science/ Physics Department

September 1, 2003 - present

Assistant Lecturer 2003 – 2014

Lecturer 2014 to date

## **POSITIONS:**

- 1- **Head of Physics Department**, College of Science, Salahaddin University 2016-date.
- 2- **General Director, Research Center**, Salahaddin University, 2018- to date.
- 3- **Director of academic relation** between Salahaddin University and Institute of Advanced Studies in Basic Sciences (IASBS) Zanzan-Iran, 2017- to date.
- 4- **Kurdish Scholar Group (KSU)**- A network of Kurdish researches all over the world working on basic science, established in 2019.
- 5- Head of Scientific Board- Physics Department- Salahaddin University.
- 6- College Program Development Committee at college of Science- Physics Department.
- 7- **Producer** and Scientific Director of “**University Stars**” scientific contest among Kurdistan universities, a TV program produced by Orimedia Production Company and Broadcasted on **K24 TV** channel.
- 8- Member, Kurdistan Teachers Society.
- 9- Member, Kurdistan Physicists Society.

## **TEACHING:**

### **-Theoretical Courses:**

- 1- Classical Mechanics
- 2- Analytical Mechanics
- 3- Electricity and Magnetism
- 4- Statistical Physics
- 5- Modern Physics
- 6- Mathematical Physics
- 7- Quantum Mechanics
- 8- Electromagnetic Theory

### **- Laboratory Teaching and Supervision:**

- 1- General Physics Laboratory
- 2- Solid State Laboratory (graduate and undergraduate)
- 3- Electricity and Magnetism laboratory

## **PUBLICATIONS**

1. On-surface Polymerization on a Semiconducting Oxide: Aryl Halide Coupling Controlled by Surface Hydroxyl Groups on Rutile  $\text{TiO}_2(011)$ , Chemical Communications 06/2015. Impact Factor 6.72.
2. Characterization of PTCDA nanocrystals on  $\text{Ge}(001):\text{H}-(2\times 1)$  surfaces, Applied Surface Science 03/2015; 332:403-408. Impact Factor 2.54.
3. Unraveling the mechanism of on-surface polymerization on a rutile  $\text{TiO}_2(011)$  surface , international Conference on Nanoscience + Technology (ICN+T), Denver, Colorado; 07/2014.

4. Temperature-dependent orientation of self-organized nanopatterns on ion-irradiated TiO<sub>2</sub>(110), Physical Review B 88(19):195427 · November,2013. Impact factor 3.66.
5. Polymerization of Polyanthrylene on a Titanium Dioxide (011)-(2×1) Surface, Angewandte Chemie International Edition 52(39) · September 2013. Impact factor 11.34.
6. STM tip-assisted engineering of molecular nanostructures: PTCDA islands on Ge(001):H surfaces. Beilstein Journal of Nanotechnology 4:927-32 · January 2013. Impact factor 2.33.
7. A DFT analysis of the adsorption of small gas molecules on ZnO-Graphene and defected ZnO-Graphene, under revision.

### **CONFERENCES AND WORKSHOPS:**

- 1- 22nd Economic Forum (2012), Krynica –Zdrój- Poland, September 4-6th 2012
- 2- 3rd European Nanomanipulation Workshop,El Escorial, Madrid, Spain, September 2012
- 3- Conference STM/AFM (VII Seminarium "Badania prowadzone metodami skaningowej mikroskopii bliskich oddziaływań - STM/AFM 2012") Zakopane, Poland,28 November- 2 December 2012
- 4- 4th European Nanomanipulation Workshop Krakow, Poland, June 12-14, 2013
- 5- Les Houches winter school "Quantum resources & molecule-machines" 27 January-1st February 2013, Ecole de Physique des Houches, France.
- 6- 6<sup>th</sup> international conference and workshop on basic and applied sciences (**ICOWOBAS**), 2017, Salahaddin University along with UTM Malaysia, **Organizer**
- 7- Gravitational waves, Einstein Messengers, November 2016, Salahaddin University, College of Science, **Speaker and Organizer**
- 8- Nanoscience, a Science in frontier, Research Center SU, **Speaker and Organizer**
- 9- 1<sup>st</sup> National Nanotechnology Workshop (NW-1-2017), Ishik University-Erbil, Organizer, **speaker and session chair.**
- 10-2<sup>nd</sup> National Nanotechnology Workshop (NW-2-2018), Tishk University, Erbil- **Organizer and session Chair.**
- 11-1<sup>st</sup> workshop on fundamental and application of Density Functional Theory (DFT), 17<sup>th</sup> April 2019. Salahaddin University, Physics Department-**Chair, Organizer and Speaker.**

12-Gathering Kurdish Mathematics Researchers Meeting with Caucher Birkar, April 12<sup>th</sup> 2019, Erbil, Kurdistan Region, College of Science, Salahaddin University.

**Organizer and Session Chair.**

13-1<sup>st</sup> joint workshop of Mathematics and Physics, November 2019, Salahaddin University, along with Institute of advanced studies in basic science (IASBS) Zanjani-Iran. **Organizer and Chair.**

14-Second International Conference of Mathematics (**SICME 2019**) 3-5 February 2019, College of Science, Salahaddin University- **Organizer and Session Chair.**

## **SKILLS:**

### **Language –**

- Fluent in English,
- Fluent in Persian,
- Intermediate in Arabic.
- Kurdish (native) both major dialects (Kurmanji and Sorani).
- Simple Communication in Turkish and Polish.

### **Computer Skills –**

- Microsoft Windows/Office (Word,Excel,Access,...)
- Graphics Software (CorelDraw, Photoshop...)
- Scientific Programs (Matlab, Mathcad, Mathematica, Latex, Lyx,...)

### **Personal Interests –**

- High Energy Physics, Elementary Particles Physics
- Cosmology
- Playing Guitar
- Swimming
- Rollerblading