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**Academic Curriculum Vitae**



**Personal Information:**

Full Name: Ayoub Sabir Karim

Academic Title: Asst. Professor

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**Education:**

* 2013 Certificate of Continuing Education (English for professional purpose), Glyndŵr University, Wrexham, Wales, U.K.
* 2007: (Ph. D in Physics/Materials Science). The title of the dissertation is (The Investigation of the Ɣ-alumina powder extracted from Iraqi kaolin University of Baghdad, IRAQ.
* 1994: (M.Sc. in Solid State Physics). Department of Physics, College of Science, University of Salahaddin-Erbil-IRAQ.
* 1987: (B.Sc. in Physics). Department of Physics, College of Education, University of Salahuddin-Erbil, IRAQ.
* 1981 took baccarat, Kurdistan properties School, Erbil, Iraq.

**Employment:**

* 2009 Asst. Professor of Materials Science, Department of Physics, College of Education/ University of Salahaddin, Erbil, IRAQ.
* 1999 Lecturer of Solid State of Physics, Department of Physics, College of Education/ University of Salahaddin-Erbil, Iraq.
* 1994 Assistant Lecturer of Solid State Physics, Department of Physics, College of Education/ University of Salahaddin-Erbil, Iraq.
* 1989 Assistant Researcher, Department of Physics, College of Education/ University of Salahaddin-Erbil, Iraq.
* Supervised fourth year under graduation projects.
* Supervised Diploma, M.Sc. and Ph.D. students.
* 2019 to the date Member of the central Committee for Certificate Equivalency at Ministry of Higher Education and Scientific Research.
* 1998-2001 Department decisioner, physics department, College of Education , Salahuddin University-Erbil, Iraq.
* 2009 – 2013 Director of Import and laboratories at the College of Education, University of Salahaddin-Erbil.
* 2007 to the date member of Scientific Committee, Physics Depts., College of Education/ University of Salahaddin-Erbil/Iraq.

**Qualifications**

* Teaching qualifications
* IT qualifications
* Language qualifications such as TOEFL, IELTS or any equivalent
* Any professional qualification
* You could put any professional courses you have attended

**Teaching experience:**

**•** Supervising General physics Laboratory for 1st year Physics ( 1995

To 1998 ) .

**•** General Physics for 1st year Chemistry ( 1995 )

**•** Medical Physics for 1st year Medicine ( 1996 )

**•** Solid State Physicsfor 4thyear Physics (1995 to 2001)

**•** Architecture Physics for 1st year Architecture Engineering ( 1994

to 2011 )

**•** General Physics for 1st year Chemistry ( 1995 )

**•** Mechanics for 1st year Physics ( 2001 )

**•** Environment for 4th year Architecture Engineering ( 2000 )

**•** Biophysics for 1st year Biology ( 2006 to 2007 )

**•** Acoustics in Architecture for 5th year Architecture Engineering

( 2008 to 2013 )

**•** Material Science for 4thyear Physics ( 2008-2009-2011-2012-2022-2023 )

**•** Advanced Solid State Physics for Diploma Sc. ( 2009 )

**•** Quantum Mechanicsfor 3rd year Physics (2013)

**•** Solid State Physicsfor 4thyear Physics ( 2013 up to date)

**•** Supervising of Final Year Physics Research Project (for 1 to 3 )

project per year

**•** Supervising Teaching Laboratory for 4thyear Physics ( 1995 to

2002 )

**•** Supervising Solid State Laboratory for 4thyear Physics ( 2012-

2013 ) .

**•** Supervising Mechanics and properties of matter Laboratory for 1st

year Physics ( 2008 up to date ) .

**•** Supervising M.Sc. students

**•** Supervising Ph.D. student

**•** Thermal properties of materials for Ph. D students .

**•** Solid state physics for Ph. D students .

**•** Materials Science for Ph.Dstudents

**•** Leader of material science and Nanoscale research group

**Research and publications**

**•** **Ayoub S. K.** 1993 “ Theoretical investigation of Energy Gap of some ( II-IV-V2 )

Semiconductor compounds” M.Sc. Thesis, University of Salahaddin – Erbil - Iraq .

**• Ayoub S. K.;** Muhammad S. A. 1997 “ A study of UV and IR absorption in B2O3-

V2O3 Glasses ” Proceeding of 3rd Scientific conf. of university of Salahaddin –

Erbil –Iraq, pp.373-383.

**• Ayoub S. K.** 1997 “Thermal dilation effects on the Energy gap in Si,Ge and some

II- IV-V2 group semiconductors” Journal of Babylon University No.3 Vol.4.

**•** M. S. Omar**; A. S. Karim**; S O Yousif 2001 “ The temperature dependence of the

energy gap of CdGeP2 Semiconductor ” Journal of Zankoy Sulaymani No 1Vol.4

pp. 37- 44.

**• Ayoub S. K**. ; Nabil M. N. 2003 “ The influence of the Gadolinium concentrations

on the characteristics of Silicon solar cells ” Journal of Dohouk

University , No.1 Vol. 6 pp.19-21.

**• Ayoub S. K.** 2006 “The investigation of the γ- alumina powder extracted from

Iraqi kaolin” Ph. D. Thesis , Baghdad University, Iraq.

**• Ayoub S. K**. ; Nabil M. N. 2009 “ The temperature dependence of the Energy Gap

of Sn and ZnIn doped CuGe2P3 Semiconductor compound” Journal of College

of Education ISSN:18120380 pp1014-1027.

**• Ayoub S. K**. 2009 “The Effects of Frequency and Temperature on the Dielectric Constant

of X%Al2O3 Powder Extracted From Iraqi Kaolin” Journal of the college

of Basic Education 15(59),1-14.

**•** Ayoub S. K. “The Effects of Frequency and Temperature on the electric

conductance of X%Al2O3 Powder Extracted From Iraqi Kaolin” View online:

https://doi.org/10.1063/1.4914246 View Table of Contents:

http://aip.scitation.org/toc/apc/1653/1 Published by the American Institute of Physics

**• Ayoub S. Karim**; Dhuha M. Oudah Al-Sumaidaie; Jassim M. Salih 2017

[Extraction of Alumina Powder from Iraqi Kaolin and Investigation of Thermal](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=B-bTcUEAAAAJ&citation_for_view=B-bTcUEAAAAJ:eQOLeE2rZwMC)

Stability of Gamma (γ) Phase DMA Al-Sumaidaie, AS Karim, JM Salih

Republic of Iraq Ministry of Higher Education & Scientific Research …

**•** **Ayoub S. Karim**; Dhuha M. Oudah Al-Sumaidaie; Jassim M. Salih 2017 “study of

alumina prepared from Iraqi kaolin ” Iraqi Journal of Physics ,ISSN:20704003,

V.15, No.34,pp148-152.

**•** Mohammad M. Othman, Sherzad A.Taha, Jwan J. Mohammad , **Ayoub S. Karem**

2018 Electron Swarm Parameters in Germane – Argon Mixtures Using Boltzmann

Equation journal of Salahaddin University-Erbil 30 (1); 34-43

**•** AG Mazare, YI Abdulkarim, **AS Karim**, M Bakır, M Taouzari, ... ,2022

“[Enhanced sensing capacit of terahertz triple-band metamaterials absorber based on](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=B-bTcUEAAAAJ&citation_for_view=B-bTcUEAAAAJ:WF5omc3nYNoC)

Pythagorean fractal geometry” Materials, 15 (18), 6364

**•** YI Abdulkarim, O Altintas**, AS Karim**, HN Awl, FF Muhammadsharif, . 2022 “Highly sensitive

[dual-band terahertz metamaterial absorber for biomedical applications: simulation and](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=B-bTcUEAAAAJ&citation_for_view=B-bTcUEAAAAJ:_FxGoFyzp5QC)

experiment” ACS omega, 7(42), 38094-38104

**•** MS Omar BJ Abdullah, **AS Karim**, SK Jalal ,2023 Specific Heat and its related parameters

in Si Nanoparticles, 1-8

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# **PATENTS**

# **AUTHORED BOOKS**

# **TRANSLATED BOOKS**

**Conferences and courses attended**

**•** 1993 2nd Scientific Conference of the University of Salahaddin.

**•** 1997 3rd scientific conference of Salahaddin University, Erbil, Iraq.

**•** 1997 3rd scientific conference of Babylon University, Babylon, Iraq.

**•** 20001st scientific conference of Sulaimani University, Sulaimani,Iraq.

**•** 2001 1st Higher education conference in Kurdistan Region -Iraq.

**•** 20091st scientific conference of Kirkuk University, Kirkuk, Iraq.

**•** 2011International Scientific Conference of Salahaddin University-Erbil

(SU-ERBIL2011), which hold in Erbil, Kurdistan, IRAQ, on October 1-20, 2011

**•** 2013 4th International Visible Conference on Educational Sciences, Ishik University, Erbil, Iraq,

12-14 April

**•** 20144th .International Advances in Applied Physics and Materials Science Congress

and Exhibition, 23-27 April, 2014 (APMAS2014) , Oludeniz, Mugla-Turkey.

**•** 2015 International conference and Exhibition on June 22-24 Boston, USA

Mesoscopic and Condensed Matter Physics

**•** 2017 6th International conference and workshop on basic and applied science,

Erbil- Kurdistan Region – Iraq.

**Funding and academic awards**

* List any bursaries, scholarships, travel grants or other sources of funding that you were awarded for research projects or to attend meetings or conferences.

**Professional memberships**

# 2007 till nowmember of Kurdistan Physics Society.

* 1996 till nowmember of teachers Society.
* 1994 till nowmember of Iraqi Society for Physics and Mathematics Center in Baghdad.

**Web of Science Researcher ID:**

**ORCID ID: https://orcid.org/0000-0002-5526-6514**

**Academic Profile:** https://academics.su.edu.krd/ayoub.karim

**Scholar Account:** [https://scholar.google.com/citations?hl=en](https://scholar.google.com/citations?hl=en&user=B-bTcUEAAAAJ&scilu=&scisig)