

Curriculum Vita

الاسم : رائد عباس صالح علي الحمداني

Personal information:

Name: Raied Abass Saleh.

Date of birth: 08-05-1978

Gender: Male.

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Education level:

1- **B.Sc.** in Physics, with an Average 70.174 (Good), College of Science, Baghdad University, Iraq, 2001.

2- **M.Sc.** in Material Physics, with an Average 86.02 (Very Good), College of Science, Al-Mustansiryiha University, Iraq, 2004.

3- **PhD** in Molecular Physics, School of Electrical & Electronic Engineering , Newcastle University, UK, 2014.

Work experience:

1- Lecturer (Physics & Computer Science) in Physics Dept., College of Science, Thi-Qar University, Iraq, from 2004 to 2006.

2- Computer's trainer in Future office for Computer training, Baghdad, Palstian Street, years 1998-2002.

3- Lecturer in School of Chemistry, Newcastle University, from 2012 to 2013.

4- Lecturer in physics Department, College of Edcation for Pure Science, Thi-Qar University, from 2015 untill now.

IT Skills:

1- Ab-initio density functional theory simulations experience using AIMPRO code for different materials, including diamond, silicon, silicon carbide, graphene, transition metals, metal oxides and carbides.

2- Analyses: Mulliken population charge, electronic band structure, density of

states, electron

affinity, wave function, vibrational modes, optical adsorption spectra and EELS.

3- Operating system: Mac-OSX, Microsoft Windows, Linux and Unix.

4- Applications: LaTeX, GNUPLOT.

5- Crystallography and graphics softwares: JMOL, AIMVIEW and POV-RAY.

Published Paper:

1- Oxygen vacancy migration in compressively strained SrTiO₃, Journal of Applied Physics, 113, 024108 (2013)

2- Impact of tensile strain on the oxygen vacancy migration in SrTiO₃: Journal of Applied Physics, 113, 224108 (2013)

3- Comprehensive study on the leakage current mechanisms of Pt/SrTiO₃/Pt capacitor, Journal of Applied Physics, 111, 014503 (2012).

4- Leakage current asymmetry and resistive switching behavior of SrTiO₃, Applied Physics Letter, 101, 173507 (2012).

5- Carbon at the Ti site in strontium titanate from first principles, Journal of Physics: Conference Series 472, 012006 (2013).

6- Effect of Chemical Solution on Creep and Impact Properties of The Polymer Composites Reinforced, International Journal of Science and Technology, 5 (2015).

7- Carbon impurities in SrTiO₃ from first principles, Modelling and Simulation in Materials Science and Engineering , 23, 015002 (2015).

Associate membership: Institute of Engineering and Technology (EIT), Institute of Physics (IOP)

References: Available on request