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الإسم: رزق محمود سليم استيتي

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Current Position: Vise president at Palestine Technical University-khadoorie.
المنصب الحالي: مساعد الرئيس للريادة والإبداع والتميز.
Mailing address: Department of applied Physics
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EDUCATION التعليم

Scopus ID 14822109100
ORCiD 0000-0002-9530-6357
100 Citations by 93 documents, 6 h-index.

2019- Promoted to full professor in Physics, Palestine Technical University-Khadoorie**.**

2012- Promoted to Associated professor in Physics, Palestine Technical University-Khadoorie.

2001-2005 "Doctora in Physics" (PhD. in physics), thesis "THE ELECTRONIC BAND STRUCTURE OF III (In, Al, Ga)- V (N, As, Sb) COMPOUNDS AND TERNARY ALLOYS" Middle East Technical University, Ankara, Turkey.

1996-1999 "Master of science" (M.Sc. in physics), thesis "Electronic calculation of some quaternary alloys by recursion method" Al- Najah University. Palestine.

1985-1989 "Bachelor of science" (B.Sc. in physics). Yarmouk University, Jordan.

Recent Research الأبحاث الحالية

Surface energy calculation and material adsorption on Nano scale surface. Nano wire's calculations for new brand semiconductor materials using Full potential Density Functional Theory for alloys. Studying the cohesive energy, elastic constants, phase transformation, effective mass and energy gap variation of

semiconductor alloys in addition to magnetic properties and phase transition.

PUBLICATIONS المنشورات العلمية

Books: الكتب

1- Book in modern physics and nuclear physics (1993) taught in the college.

2- **laboratory** manual for general physics 101. (2008- until now).

3- **laboratory** manual for general physics 102.(2009-until now).

4- Laboratory manual for Advance Physics Lab II.

5- Laboratory manual for Advance Physics Lab III.

Papers: الأوراق العلمية

1- Musa El-Hasan and **Rezek Mohammad**, "ENERGY GAP DEPENDENCE ON ANION CONCENTRATION FOR *GaxIn*1-*xAsyP*1-*y* QUATERNARY ALLOY BY RECURSION METHOD", Modern Physics Letters B, 18, 955 (2004).

2- **Rezek Mohammad** and Senay Katircioglu, "The electronic band structure of AlN, AlSb, AlAs and their ternary alloys with In" DOI: 10.1142/S0217979206035394, International Journal of Modern Physics B, Vol. 20 Issue 22, p3199-3221(2006).

3- **Rezek Mohammad** and Senay Katircioglu, "The Electronic Band Structure of GaN and GaAs for band gap bowing of *InxGa*1- *xNyAs*1-*y* alloys". DOI: 10.1142/S0217979207037922, International Journal of Modern Physics B, Volume 21, Issue 25, pp. 4357-4375 (2007).

4- **Rezek Mohammad**, Senay Katircioglu and Musa El-Hasan, "The Electronic Band Structure of InN, InAs and InSb compounds". DoI:10.1007/s10853-007-1794-4. Journal of Materials Science, April 2008, Volume 43, Issue 8, pp 2935–2946.

5. **Rezek Mohammad** and Senay Katircioglu, "The Electronic Band Structure of *InNxAs*1-*x*, *InNxSb*1-*x* and *InAsxSb*1-*x* alloys", Journal of Alloys and Compounds. 469 (2009) 504–511.

6. **Rezek Mohammad** and Senay Katircioglu “The Structural and Electronic properties of BN and BP compounds and BNxP1−x alloys” Journal of alloys and compounds 478 (2009) 531-537.

7. **Rezek Mohammad** and Senay Katircioglu "The Structural and Electronic properties of BAs and BP compounds and BAsxP1−xalloys". Journal of Alloys and Compounds Volume 485, Issues 1-2, 19 October 2009, Pages 687-694.
8. **Rezek Mohammad** and Senay Katircioglu, "A Comparative study for structural and electronic properties of ScN compound"Journal of 'Condensed Matter Physics'Vol.14, No. 2, 23701:1- 13.(2011).
9. **Rezek Mohammad** and Senay Katircioglu, "The Structural andElectronic properties of BAs and BN compounds and BN_xAs_{1-x} alloys".Surface Review and Letters, Vol. 19, No. 5(2012) 1250053.
10. **Rezek Mohammad** and Senay Katircioglu," Structural propertiesof Alumnum nitride compound" Indian Journal of Physics, Vol. 88, Issue 10, pp 1021-1029 (2014).
11. Rezek Mohammad, Areej Jabir and Rashid Jayousi, "OptimumExecution For Wien2k using Parallel Programming Models (Comparison Study) " Frontiers in Information Technology By the MASAUM Network Journals chapter nine, page 68, 2012, ISBN 978-969-9742-00-2**.**
12. **Rezek Mohammad** and Senay Kartircioglu, "The structural and electronic properties of $Sc_xAl_{1-x}N$ alloys" International Journal ofModern Physics C, Vol. 24, No. 10 (2013) 1350074.
13. Hadi Khalilieh, Nidal Kafri and **Rezek Mohammad. "**Performance Evaluation of Message Passing vs. Multithreading Parallel Programming Paradigms on Multi-core Systems" International Journal of New Computer Architectures and their Applications (IJNCAA) 4(2): 108-116, The Society of Digital Information and Wireless Communications, 2014 (ISSN: 2220-9085).
14. **Rezek Mohammad** and Senay Kartircioglu, "Structural and Electronic properties of GaP Nanowires", http://dx.doi.org/10.1016/j.physe.2015.06.002, Physica E: Low-dimensional Systems and Nanostructures, Vol. 73, September 2015, Pages 213–219.
15. **Rezek Mohammad** and Senay Kartircioglu, "FIRST- PRINCIPLES CALCULATIONS FOR THE STRUCTURAL AND ELECTRONIC PROPERTIES OF $GaAs_{1-x}P_x$ NANOWIRES", DOI: 10.1142/S0129183116500352, InternationalJournal of Modern Physics C, Vol. 27, No. 3 (2016) 1650035.

16. **Rezek Mohammad** and Senay Kartircioglu, "A comparative study for the electronic properties of Aluminum Nitride compound", **Turk J Phys,** DOI: 10.3906/fiz-1511-13, Available online: 15.03.2016.

17. **Rezek Mohammad** and Senay Kartircioglu, "First-Principles calculations for mechanical and electronic features of strained GaP nanowires", Int. J. Mod. Phys. C 28, 1750039 (2017).

18. **Rezek Mohammad** and Senay Kartircioglu, "Structural stability and electronic properties of different cross sectional unstrained and rectangular cross sectional strained GaP nanowires". International Journal of Modern Physics B Vol. 33, No. 04, 1950006 (2019)

19. Rezek Mohammad "Uniaxial Strain and Optical properties of GaP Nanowires**"**, Palestine Technical University Research Journal, 2020, 8(2), 20-29.

Graduates Students:

Since 2008 I Supervise many master students, I remember some of them: Baseemeh Daas Fareed Zpeedeh, Frah Ali Deeb Saleh, Areej Mostafa, Hadi khaliliyeh and others.

WORK EXPERIENCE الخبرة العملية

1990-1991 National Bank of Kuwait. VIP accounts sector.

1991-Until now Palestine Technical University- khadoorie. During that, I taught almost all courses in Physics, applied mathematics and computational physics.

2006-2009 Part time Instructor at An Najah national university, Undergraduate and Graduate courses.

2009-2013 Dean of Arts and Sciences Faculty in Palestine Technical University-khadoorie. (In 2009 we had one department, ended with 6 departments),

2011-2012 Member in the Council of Scientific Research and Graduate Studies in the university.

2012-2013 Head of the Council of Scientific Research in the university.

2013-2014 Member in the promotion committee for PTUK university.

2015-2016 Sabbatical year at Meddle East Technical University, Research in the area of 3-5 Nano wires.
2017-2019 Dean of Development & Community service affairs.

2019-untilnow President Assistant for Innovation, creativity and excellency.

TECHNICAL SKILLS المهارات

Competent user of Microsoft Word, Excel, Power Point Efficient user in World Wide Web, internet and intranet
Knowledge in writing C++ programs, qbasic, Visual basic, Fortran, matlab ,Mathcad, and Python.
I have an excellent knowledge in Linux and running programs on Linux. Building clusters for parallel calculation.
Giving my courses using e-classes, and blogs.

Detail of courses I had taught. المواد التي تم تدريسها

GENERAL PHYSICS (1,2,3). MODERN PHYSICS, ELECTROMAGNETIC THEORY, MATHEMATICAL PHYSICS, LINEAR ALGIBRA, ORDINARY DIFFERETIAL EQUATION, PROGRAMING IN PHYSICS, CLASICAL PHYSICS I, QUANTUM PHYSICS (1,2) . SOLID STATE PHYSICS, STATISTICAL PHYSICS.(GRADUATE STUDENTS), OPTICS. GENERAL LABS (MECHANICS AND ELECTRICITY), APPLIED ELECTRONICS ANDLABLATORY.

Graduate courses for the master of physics in An Najah national university and Palestine Technical University-khadoorie.

A statement of teaching philosophy

I am a firm believer that teaching is as an interaction between an instructor and a student, It is a lifelong learning process. Learning is an active processthat students have to participate and to engage in. A positive, trusting, and encouraging learning environment is the key to ensure effective interaction.

Courses and Conferences Attended المؤتمرات والورشات التي حضرتها

1. "Accounting For Public Companies". Kuwait University, Kuwait.(02/1989-05/1989).
2. Intense courses in administration, finance, economics, method of investments and stock markets for three months, by Citibank in the national bank of Kuwait.
3. Training of trainers in Vocational Education, by ILO, from 5-31 July1997. And curriculum development to meet market oriented.
4. Communication and interpersonal skills, workshop for 3 days at Amideast Center, Ramallah, Palestine.
5. Professional skills, Enhancement Effective Presentations, Workshopfor 3 days at Amideast Center, Ramallah, Patestine
6. Workshop, Project Pedagogy Approach of Microcontroller. By theFrench group, Palestine technical college. 23-27/4/2006.
7. Conference; First Anatolian School on Catalysis (ASC-1), 25/9/2006-6/10/2006, Ankara Turkey.
8. 15th Wien Workshop-LAPW+Lo calculation with wien2k code. March25-29, 2008 Vienna, Austria.
9. The Second Physics Conference, 7-8 May, 2007. An Najah National University, West bank, Palestine.
10. Novel Materials and superconductivity conference 21-28. Feb. 2009, Planneralm, Vienna, Austria.
11. 6th Nanoscience and Nanotechnology Conference- participated with apaper, 15-18/6/2010, Izmir, Turkey.
12. Novel Materials and superconductivity conference 12-19. Feb. 2011, Planneralm, Vienna, Austria.
13. The 5th International Conference on Information Technology, ICIT2011, 11-13 May 2011.Jordan. Application of parallel computing.
14. Institute of theoretical and applied physics, turunc, marmaris, turkey. 4-14

July,2011.

15. Training program on using ICT in Education by experts from Oslo. "Learning and Teaching in digital world", from 15/9-25/11/2011.
16. Workshop on "Principles and Methods of Project Evaluation"By Amideast, October 22 -23, 2011, Palestine.
17. The First International Palestinian Conference on Nanotechnology in Advanced Materials and Devices.(held in coordination between Illinois State university, An-Najah University and Palestine Technical University-khadoorie) I was in the Scientific committee, March,26- 28/2012.
18. Head of Scientific committee for the first conference of Math's in Palestine. 16/5/2012.

19. Organizing Committee for Solar energy conference and exhibition, held on 7-9/11/2012, Antalya –Turkey.
20. President for Second conference for teaching and learning Mathematics held on 28/4/2013 in Palestine Technical University-Khadoorie.
21. Workshop, February 9 - 14, 2014 on Novel Materials and superconductors-Focus: topological insulators. Vienna Universityof Technology. A poster.
22. Head of scientific committee for mathematics learning and teaching day, held in PTUK on 4/5/2014.
23. Workshop, February 9 - 14, 2015 on Novel Materials and superconductors-Focus: topological insulators. Vienna University of Technology. A paper submitted.
24. Workshop, February 6 - 11, 2017 on Novel Materials and superconductors-Focus: topological insulators. Vienna University of Technology. A paper submitted.
25. Training Work shop about internationalization of education, June 5-10, 2020, Middle East Technical University. Organized and funded by Erasmus Program.