

Curriculum Vitae (CV)

Rabab Omar Jarrar



Personal Information

Family Name: Jarrar

Given Name: Rabab

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Gender: Female

Marital Status: Single

Date of Birth: 27/4/1969

Education:

- PhD in Solid-State Physics / Polymers, 2007, Cairo University, Egypt.
Thesis Title : Influence of γ - Irradiation on the Physical Properties of Interlinked Rubber Vulcanizates.

- M.Sc. in Experimental Physics / Polymers, 1995, University of Jordan, Amman, Jordan, with GPA 82.1% (very good).

Thesis Title: Effect of UV and visible light on the Fine Structure of Polyethylene Terephthalate Yarns.

- B.Sc. in Physics, 1991, University of Jordan, Amman, Jordan, with GPA 87.9 % (Excellent).

- General Secondary Certificate , Scientific Stream, 1987 with GPA 95.1 % .
I ranked the tenth among all students in Palestine at Tawjihi Exam.

Scholarships :

- B.Sc scholarship from Jordanian Ministry of Education (as one of the top ten students in Tawjihi Exam in West Bank / Palestine)

- Fulbright Research Scholarship from the American Department of State – Cultural Affairs in the academic year 2009 / 2010 at Center for Research Excellence in Nanobiosciences, University of North Carolina at Greensboro, Greensboro, North Carolina ,USA.

Employment History

- Assistant professor at the Department of Physics, Palestine Technical University-Kadoorie, Tulkarm Palestine, since 1/9/2010 till now.

- Dean of Faculty of Arts and Sciences, Palestine technical University-Kadoorie, from 1/9/2016 – 25/7/2018

- Chair of Physics department, Palestine Technical University-Kadoorie, from 1/9/2014 -31/8/2016.

- Post Doc at Center for Research Excellence in Nanobiosciences, University of North Carolina at Greensboro, Greensboro, North Carolina ,USA. From 25/9/2009-25/6/2010.

- Physics Supervisor at Directorate of Education – Qabatia / Jenin – Palestine from 25/12/1999 – 24/9/2009.

- Part time Physics lecturer at Al-Quds Open University, Jenin, Palestine 1997 – 2009

- Physics Teacher at Jenin-Secondary Girls School 1995- 1999

- Researcher and teaching assistant at Jordan University, Amman, 1992-1995.

Teaching Experience:

I taught the following courses for B.Sc

- General Physics 1,2 and 3
- General Physics Labs 1 and 2
- Waves and Optics
- Modern Physics
- Material Science
- Quantum Mechanics 1
- Electromagnetic Theory 1
- Advanced Physics Labs 1,2,3

Research Interests

- Polymer Nanocomposites
- Phase Change Materials.

Publications

- Alteration of the Mechanical and Thermal Properties of Nylon 6 / Nylon 6.6 Blends by Nanoclay.” **Rabab Jarrar**, Mahmood A. Mohsin and Yousef Haik *Journal of Applied Polymer Science*, Volume 124, Issue 3, pages 1880–1890, 5(2012).
- The Electrical Properties of γ -Irradiated and Interlinked SBR-Rubber Composites” **Rabab O. Jarrar** and G. M. Nasr, *Global Journal of Engineering Research and Technology*, Volume 5, Number 1, pp. 23-43, (2015).
- Eutectic Mixture of Myristyl Alcohol - Eicosane and the Thermal Reliability of this Binary System as Phase Change Material.”**Rabab Jarrar**, Ghassan Qabajab, Reyad Sawafta, *American Scientific Research Journal for Engineering, Technology and Sciences (ASRJETS)*. Volume 17, Number 1, pp. 52- 60, (2016)
- Binary and Ternary Mixtures of Eicosane with Fatty Al-cohols and Fatty Acids as Phase Change Material for Building Applications. **Rabab Jarrar** and Reyad Sawafta, *Palestine Technical University Research Journal*, 2018, special issue 6(3), 16-22.
- Numerical Study of Motion of a Spherical Particle in a Rotating Parabola Using Lagrangian ,H. Khalilia1, **R. Jarrar**, and J. Asad, *Journal of the Serbian Society for Computational Mechanics / Vol. 12 / No. 1, 2018 / pp 44-51*
- *lab Manual* (Advanced physics lab 1) for Students in the Third Year in Physics Department –Faculty of Science, Palestine Technical University.

Conferences:

- Second International Physics Conference, at An-Najah National University on 7, 8 / 5 /2007.
- Physics Conference , at Al- Quds University (Abudeis) on 21, 22 / 4 / 2008
- The 2nd North Carolina Nanotechnology Commercialization Conference **NCNCC** , held on March 31st and April 1st 2010, Greensboro ,USA
- The International Palestinian Conference on Nanotechnology for Advanced Material and Devices, at An-Najah National University and Palestine Technical University 26-28 March 2012
- The Fifth Palestinian Conference on Modern Trends in Mathematics and Physics , at Arab American University – Jenin (31/7-2/8/2016) .
- The Sixth Palestinian Conference on Modern Trends in Mathematics and Physics, Palestine Technical University, Kadoorie, Tulkarm.(5-8/8/2018).

Miscellaneous

- Member of the committee of Curriculum Development of Science and Physics at Ministry of Education (participating in putting the basic outlines in the Palestinian New Curriculum of Science and Physics in high elementary and secondary schools and scientific reviewing of physics and science curriculum for 1-12 grades).
- Member of the organization committee of "First Palestinian International Conference on Peaceful Uses of Atomic Energy" held at Palestine Technical University (19th-20th /2/2017).
- Member of the organization committee of " Fifth and Sixth Math. Forum " held at Palestine Technical University in 2017 and 2018.
- Member of the organization committee of The Sixth Palestinian Conference on Modern Trends in Mathematics and Physics, Palestine Technical University, Kadoorie, Tulkarm.(5-8/8/2018).
- Former trainer of teachers in many activities, held in the Ministry of Education and at Quabatia Directorate, such as methods of teaching , measurement & evaluation, scientific experiments, using scientific instruments, manufacturing simple scientific instruments to improve the practical part in science teaching, misconcepts in science and physics.

Languages:

- Arabic: mother tongue
- English: very good in written and spoken.