Issra' Hammoudeh

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Education

09/2017 – 01/2020	Master of physics School of sciences The University of Jordan, Amman Jordan Master Thesis: "Influence of potassium chloride on the performance of poly N-(Hydroxymethyl) Acrylamide gel dosimeter for low dose applications"
09/2005-02/2009	Bachelor of physics School of sciences The University of Jordan, Amman Jordan

Work Experience

1- Teaching and research assistant at German Jordanian University from September 2012 till now.

- Duties:(as a teaching assistant)
  - To provide high quality laboratory instruction to undergraduate science and engineering students, and to contribute to the assessment and continuous improvement of lab course material.
  - To work closely with department faculty to provide high quality instructional support in labs.
  - proctoring exams and grading home works and quizzes.
  - these labs are in general about mechanical and electromagnetic physics.

2- Teacher at Sokayna bent el-hoseen secondary school, teaching physics for first secondary grade.

3- Teacher at aljami'a schools, math and science

4- Teacher at Alpha Beta school, teaching mathematics for 7^{th}, 9th and 10^{th} grade, and physics for 9^{th} and 10^{th} grade.

5- Lab technician at the University of Jordan.

Workshop and training

- Soft Skills for Success and Emotional Intelligence and Communication.
- Innovation Training Workshop.
- Middle Management Training Program.

Publications

1- Khalid A. Rabaeh, Ahmed A. Basfar, Issra' M.E. Hammoudeh (submitted feb. 2024). Low relative humidity-dependent polyvinyl butyral film dosimeter containing 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide dye for radiation processing. Materials Chemistry and Physics.

2- Khalid A. Rabaeh, Ahmed A. Basfar, Issra' M.E. Hammoudeh (2023). Novel polyvinyl alcohol film dosimeter containing 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide dye for high dose application. Nuclear Engineering and Technology, Volume 55, Issue 9.

3- Rabaeh, K. A., Hammoudeh, I. M., & Eyadeh, M. M. (2022). Novel polymer gel dosimeters based on N-Vinylcaprolactam for medical dosimetry. *Journal of Radioanalytical and Nuclear Chemistry*, 1-7.

4- Khalid A. Rabaeh *, Rawan E. Al-Tarawnehb, Molham M. Eyadeh, Issra' M. E. Hammoudehd, Moneeb T. M. Shatnawi. Improved Dose Response of N-(Hydroxymethyl)acrylamide Gel Dosimeter with Calcium Chloride for Radiotherapy. Accepted, Manuscript ID*: gels*-1527996.

5- Rabaeh, K. A., Hammoudeh, I. M., Moftah, B., Oglat, A. A., Eyadeh, M. M., Aldweri, F. M. & Devic, S. (2022). A normoxic acrylic acid polymer gel for dosimetery in radiation therapy. *Journal of Radioanalytical and Nuclear Chemistry*, 1-8.

6- Rabaeh, K. A., Issra'ME, H., Oglat, A. A., Eyadeh, M. M., Ala'J, A. Q., Aldweri, F. M., & Awad, S. I. (2021). Polymer gel containing N, N'-methylene-bis-acrylamide (BIS) as a single monomer for radiotherapy dosimetry. *Radiation Physics and Chemistry*, *187*, 109522.

7- Rabaeh, K. A., Issra'ME, H., Eyadeh, M. M., Aldweri, F. M., Awad, S. I., Oglat, A. A., & Shatnawi, M. T. (2021). Improved performance of N-(Hydroxymethyl) acrylamide gel dosimeter using potassium chloride for radiotherapy. *Radiation Measurements*, *142*, 106542.

8- Abu-Safe, H. H., Hammoudeh, I., Al-Nasser, H., Morgan, T. A., Ware, M. E., Al Faouri, R. A., & Naseem, H. (2018, September). Ellipsometric study of aluminum-nickel nano-films forplasmonic application. In *Nanostructured Thin Films XI* (Vol. 10731, p. 107310J). International Society for Optics and Photonics.

Research Experience

- Worked with dr. Khalid Rabaeh and dr. Moneeb Shatnawi on fabricating the gel dosimeter, also irradiate it, and finally use NMR and UV-Vis techniques in analysis. (master thesis project)

- Worked with dr.Husam Abu safe on "Investigating third order nonlinearities in nonorganic nanomaterials "research project.

- Worked with Dr.Inshad Juma'a on " polymeric nanocomposites doped with magnetically aligned nanoparticles for monovalent and multivalent ion rejection and electromagnetic wave polarizer" research project.

Referees

- Dr. Khalid Rabaeh
  Hashemite University
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- Dr. Moneeb Shatnawi
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  Department of physics
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- Dr. Bashar Lahlouh
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