

# C.V.



## PERSONAL INFORMATION

**TITLE:** Dr.  
**FIRST NAME:** Shadi.  
**FAMILY NAME:** Salem.  
**NATIONALITY:** Jordanian.  
**DATE OF BIRTH:** May 26<sup>th</sup> 1978.  
**MARITAL STATUS:** Married, 2 children.  
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## ACADEMIC QUALIFICATIONS

### 1- Doctorate in Physics

**University:** der Johan Wolfgang Goethe-Universität, Germany  
**Study Period:** Five Years.  
**Graduation Year:** 2010 March, 16<sup>th</sup>.  
**Title of Thesis:**  
"Projectile X-Ray Emission in Relativistic Ion-Atom Collisions "  
[Prof. Dr. Reinhard Dörner].  
[Prof. Dr. Thomas Stöhlker].

### 2- Master in Physics

**University:** The University of Jordan, Jordan  
**Study Period:** Five Semesters.  
**Graduation Year:** 2003  
**Rating:** 3.94 out of 4 (Excellent).  
**Title of Thesis:**  
" *Characteristics of Irradiated Germanium Thin Films Deposited  
Onto Silicon Substrates by Rutherford Backscattering and  
Thermoluminescence* "  
[Prof. Dr. Dia-Edin Arafah].

### **3- B.Sc. in Physics**

**University:** Hashemite University, Jordan  
**Study Period:** 4 years.  
**Graduation Year:** 2000  
**Rating:** 3.60 out of 4 (Very good).  
**Graduation Project:**  
" *Transient Photoconductivity in Amorphous Semiconductors* "

### **4-The General Secondary Certificate**

**School:** Ain Al-Basha Secondary School.  
**Graduation Year:** 1996  
**Rating:** 87.1 % (very good).

### **WORK EXPERIENCE**

- Sep.2013-present: Head of Physics Department at Al-Balqa' Applied University.
- Feb.2011- present: Working as Assistant Professor in physics at Al-Balqa Applied University (Al-salt, Jordan)
- 2005-2010: Worked as a PhD student in Atomic Physics at GSI (Darmstadt, Germany).
- Worked as an assistant supervisor in Physics laboratories at the University of Jordan (2001- 2005):
  - (1) Lab of Programmable Packages (Mathematica).
  - (2) Freshman Physics Lab. (Mechanics).
  - (3) Freshman Physics Lab. (Electricity & Magnetism).

### **WORKSHOP**

- DPG-Frühjahrstagung, Frankfurt, Germany, 13-17 March, 2006.
- SESAME (Synchrotronlight for Experimental Science and Application in the Middle East), Al-Balqa Applied University, Jordan, 9-19 Sept. 2000.

### **LANGUAGE**

- Arabic: Mother Language.
- English: (writing and talking)/very good.
- German: (writing and talking)/ good.

### **REFERENCES**

- **Prof. Dr.** Thomas Stöhlker: GSI, Darmstadt, Germany.  
([T.Stoehlker@gsi.de](mailto:T.Stoehlker@gsi.de))
- **Prof. Dr.** Dia-Edin Arafah: Jordan University, Amman, Jordan.  
([darafah@ju.edu.jo](mailto:darafah@ju.edu.jo))
- **Dr.** Angela Braeuning-Demian : GSI, Darmstadt, Germany.  
([A.Braeuning@gsi.de](mailto:A.Braeuning@gsi.de))

## LIST OF PUBLICATIONS

- 1- "*Angular Distribution of Photons for the Simultaneous Excitation and Ionization in He-like Uranium Ions at Relativistic Ion-Atom Collisions*", S.Salem, Th. Stöhlker, A. Bräuning, A. Gumberidze, S. Hagmann, C. Kozhuharov and D. Liesen. **Phys. Rev. A** **88**, 012701 (2013).
- 2- "*Precision studies of fundamental atomic structure with heaviest few-electron ions*", A. Gumberidze, Th. Stöhlker, D. Banaś, H. F. Beyer, C. Brandau, H. Bräuning, S. Geyer, S. Hagmann, S. Hess, P. Indelicato, P. Jagodziński, C. Kozhuharov, A. Kumar, D. Liesen, R. Martin, R. Reuschl, S. Salem, A. Simon, U. Spillmann, M. Trassinelli, S. Trotsenko, G. Weber, D. Winters. **Hyperfine Interact** (2011) **199:59–69**.
- 3- "*Spectral Shape of the Two-Photon Decay of the  $2^1S_0$  State in He-Like Tin*", S. Trotsenko, A. Kumar, A. V. Volotka, D. Banaś, H. F. Beyer, H. Bräuning, S. Fritzsche, A. Gumberidze, S. Hagmann, S. Hess, P. Jagodziński, C. Kozhuharov, R. Reuschl, S. Salem, A. Simon, U. Spillmann, M. Trassinelli, L. C. Tribedi, G. Weber, D. Winters, and Th. Stöhlker, **Phys. Rev. Lett.** **104**, 033001 (2010).
- 4- S. Salem, Ph.D Thesis: "Projectile X-Ray Emission in Relativistic Ion-Atom Collisions", Frankfurt University, 2010.  
[http://publikationen.ub.uni-frankfurt.de//frontdoor.php?source\\_opus=7820](http://publikationen.ub.uni-frankfurt.de//frontdoor.php?source_opus=7820)
- 5- "*Population mechanisms of the  $[1s_{1/2}2p_{3/2}]^1P_1$  state of He-like Uranium Ions*", S.Salem et al. GSI Scientific Report 2009.
- 6- "*Simultaneous Excitation and Ionization of He-like uranium ions in relativistic limit*", S. Salem et al., GSI Scientific Report 2008.
- 7- "*Study of  $2E1$  Decay in He-like Tin*", S. Trotsenko, A. Kumar, D. Banas, H. Beyer, H. Bräuning, A. Bräuning-Demian, A. Gumberidze, S. Hagmann, S. Hess, P. Jagodzinski, C. Kozhuharov, R. Reuschl, S. Salem, U. Spillmann, T. Stöhlker, M. Trassinelli, L. Tribedi, A. Volotka, G. Weber. *GSI Scientific Report* 2006.
- 8- "*X-ray emission in few-electron heavy ion-atom collisions*", S.Salem, A. Bräuning-Demian, R. Dunford, F. Bosch, H. Bräuning, S. Chatterjee, S. Hagmann, C. Kozhuharov, D. Liesen, P. H. Mokler, Z. Stachura, A. Warczack, A. Wilk. *GSI Scientific Report* 2005.
- 9- "*Ion Beam Mixing of Silicon-Germanium Thin Films*", S. Abedrabbo, D.-E. Arafah and S. Salem, *Journal of Electronic Materials*, **34** (5), 2005, 468.
- 10- "*Ion beam mixing of Silicon-Germanium for solar cell applications*", Sufian Abedrabbo, D.-E. Arafah, S. Salem, and N.M. Ravindra, 13<sup>th</sup>. Workshop on Crystalline Silicon Solar Cell Materials and Processes, Vail, Colorado, August 10-13, 2003.