

# **ABDEL-LATIF M. AL-SHARIF**

## **Professor Physics of Materials**

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### **PERSONAL:**

**Date of birth:** August 2, 1962 .

**Place of birth:** Irbid – JORDAN.

**Marital status:** Married.

### **EDUCATION:**

1. Ph. D. degree in physics, Kansas State University – USA, March 1991.
2. M. Sc. Degree in physics, Kansas State University – USA, May 1988.
3. B. Sc. Degree in physics, Yarmouk University – Jordan, July 1984.

### **ACADEMIC EXPERIENCE:**

1. Assistant Prof., Mu'tah University – Jordan, 12 March 1991 – 11 March 1996.
2. Associate Prof., Mu'tah University – Jordan, 12 March 1996 – 15 Sept. 1997.
3. Associate Prof., University of Qatar – Qatar, 20 Sept. 1997 – 17 Sept. 2001
4. Associate Prof. Mu'tah university – Jordan, 18 Sept. 2001 – 11 March 2004.
5. Professor, Mu'tah University – Jordan, 12 March 2004 – August 2007.
6. Professor, King Faisal Univ. – SA, August 2007 – August 2008)
7. Professor, Mu'tah University – Jordan , August 2008 – August 2012).
8. Professor, Salman bin Abdelaiziz Univ.-S.A. (August 2012-August 2013)
9. Professor, Mu'tah University – Jordan , August 2012 – present).

### **ADMINISTRATIVE EXPERIENCE:**

1. **Director**, Science Courses Unit- Prep. Year Deanship- Salman Bin AbdelAziz Univ. Saudi Arabia, August 2012-August 2013.
2. **Academic and Administrative Consultant**- Prep. Year Deanship- Salman Bin AbdelAziz Univ. Saudi Arabia, August 2012-August 2013.
3. **Head**, Physics department, Mu'tah University – Jordan, 2 Sept. 2001 – 31 August 2003.
4. **Assistant Dean**, Deanship of student affairs, Mu'tah University – Jordan, 16 Sept. 1995 – 5 July 1997.
5. **Assistant Dean**, Faculty of Science, Mu'tah University – Jordan, 26 January 1994 – 16 Sept. 1995.

### **INTERNATIONAL AWARD:**

The Third World Academy of Science (TWAS) Prize in physics, Trieste – ITALY, 1995.

### **CONFERENCES AND WORKSHOPS:**

1. International Conference on Condensed Matter Physics and applications, BAHRAIN, 13-16 April 1992. (presented a paper).
2. Condensed Matter Workshop, ICTP – ITALY, August 31 – Sept. 21 1992.
3. CTAP First workshop in using computer in theoretical physics, Yarmouk University, JORDAN, 12 – 23 January 1992.
4. First Symp. In Recent Developments in Computational Condensed Matter Physics, Yarmouk University – JORDAN, 16 – 18 Nov. 1992.
5. First National Jordanian Conference on Electrical Engineering, Mu'tah University, JORDAN, 19-21 April 1993 (presented a paper).
6. CTAP First Symp. On Magnetism, Yarmouk University – JORDAN, 22-24 Nov. 1993 (presented a paper).
7. The Third Conference on Physics of Condensed Matter, Jordan University – JORDAN, 18-21 April 1994 (presented a paper).
8. 2<sup>nd</sup> International Conference, Lasers in Science and Technology, Jordan University, JORDAN, 13-16 August 1994 (presented a paper).
9. The XVII Conference on Solid State Science and Workshop on Spectrally Selective Thin Films for Solar Applications, Suez – EGYPT, Jan. 22-26 1995 (presented paper)

10. The XIX Conference on Solid State Science and Workshop on Physics of Non-Crystalline Solids, Ismailia – EGYPT, 13-17 March 1996 (presented a paper).
11. CTAP Second Symp. On Magnetism, Yarmouk University – JORDAN, 4-6 Nov. 1996 (presented a paper).
12. 2<sup>nd</sup> National Jordanian Conference on Electrical Engineering, Mu'tah University, JORDAN, 18-20 Nov. 1996 (presented a paper).
13. International Magnetism Conference (INTERMAG 97), New Orleans, USA, 1-4 April 1997 (presented a paper).
14. The fourth international conference on physics of condensed matter University of Jordan, JORDAN, 18-22 April 2000 . (presented a paper)
15. 2<sup>nd</sup> regional conference on magnetic and superconducting materials Yarmouk university, Jordan, 9-13 sept. 2001. (presented a paper).
16. First Symp. On Use of Nuclear Techniques in Environmental Studies, Yarmouk university-Jordan, 24-26 sept. 2001 (presented a paper)
17. The second conference of the Faculty of Science and Arts, AL al-Bayt University, 8-9 May 2002 (presented a paper).
18. The XXIII Conference on solid state science & Workshop on physics and applications potential of functional ceramic thin films, EGYPT, 28 sept. – 2 oct. 2002 (presented a paper).
19. The 3<sup>rd</sup> regional Conference on Magnetic and Superconducting Materials (MSM-03), 1-4/Sept. 2003, TUNISIA (presented a paper).
20. The International Engineering Conference Mutah - Jordan, 26-28 April 2004 (presented a paper).
22. The Tenth Jordanian Science Week, Amman- JORDAN, Sept. 2004 (presented a paper).
23. The XXV Conference on Solid State Physics and Materials Science, EGYPT, 6-10 March 2005 (presented a paper).
24. The Synchrotron Users Workshops (2005-2010) .Annual Activity to prepare Jordanian scientist for the use of synchrotron facility in research. Presented a talk about x-ray diffraction in all workshops.
25. The First Uro-medetranian conference in materials, Tunisia 4-9, sept 2011 (presented a paper)

## **PUBLICATIONS:**

1. Effect of alloying elements on the double-transition behavior of Gd-rich spin glass Systems, A. Al-Sharif and M. J. O'Shea, **J. Appl. Phys.** 61, 3613 (1987).

- 2. Superconducting and electronic structure of Bi-based compounds**, S. Thomas, P. Sherwood, N. Singh, A. Al-Sharif and M. J. O'shea, **Phys. Rev.B**, 39, No.10, 1989.
- 3. Attempts to prepare Bi-Based superconductors on carbon fiber substrate**, A. Al-Sharif, M. J. O'Shea, S. Thomas and P. Sherwood, **J. Appl. Phys.** 67, 5023 (1990).
- 4. Overview of high  $T_c$  superconductors**, Proc. Of 1<sup>st</sup> National Jordanian Conf. On Electrical Engineering, pp 72-87 (1992).
- 5. Inverted hysteresis in magnetic systems with interface exchange**, M. J. O'Shea and Al-Sharif, **J. Appl. Phys.** 75, 6673 (1994).
- 6 . Magnetic behavior of Gd-rich spin glass systems**, A. Al-Sharif and M. J. O'shea, **Mu'tah J. Res. and Stu.** V9 47 (1994).
- 7. Superconducting and magnetic properties of Bi-based superconductors with Fe, Co or Ni**, A. Al-Sharif and M. J. O'Shea, **Mu'tah J. Res. And Stu.** V9, 95 (1994).
- 8. Irradiation effects on the YBaCuO superconducting compound**, A. Al-Sharif and M. J. O'Shea, **Appl. Phys. A** 59, 597 (1994).
- 9. Shifted hysteresis loops in Co/CoO multilayers**, A. Al-Sharif, **Tr. J. Phys.** 18, 1086 (1994).
- 10. Effect of Pr substitution in place of Y in YBaCuO superconducting compound**, A. Al-sharif, **Mu'tah J. Res. And Stu.** V9, 71 (1994).
- 11. Magnetic behavior of YSmBaCuO superconducting compound**, A. Al-Sharif, **Mu'tah J. Res. And Stu.** V9, 83 (1994).
- 12. Magnetic measurements on some rare-earth iron garnets**, M. lataifeh and A. Al-Sharif, **Appl. Phys. A** 61, 415 (1995).
- 14.Magnetic and XPS measurements of basalt rocks**, A. Al-Sharif , **Mutah J. Res. And Stud.**12, 79 (1997)
- 15.Magnetic and structural properties of GdYNi**, M. R. Said, I. Abu-Aljarayesh and A. Al-Sharif. **Proceeding of MSM-01, Tehran-Iran**, 783 (1999).
- 16. Factors affecting radon concentration in houses**, A. Al-Sharif and Y. Abdelrahman, **Tr. J. phys.** 25, 153 (2001).
- 17.Variation of Magnetic Properties During Crystallization of FeXMoBCu (X=Co, Ni) Amorphous alloys with Large Supercooled Liquid Regions**, M. Al-Haj and A. Al-Sharif, **Dirasat** 30, 305 (2003).
- 18. Crystallization and magnetic properties of FeCoNiMoBCu amorphous alloy with large supercooled liquid region**, M. Al-Haj and A. Al-Sharif, **Mu'tah J. Res. Stud.** 18, 109 (2003).
- 19. Electromechanical properties of magnetic transducer**, A. Tawfiq and A. Al-Sharif, **J. Mag. Mag. Materials**, 278, 195 (2004).

- 20. Exchange anisotropy in Co/CoO bilayers, A. Al-Sharif , , Mu'tah J. Res. Stud. 19, 53 (2004)**
- 21. Effect of Gd substitution on the magnetic properties of SmCo<sub>5</sub>, R. Mobydeen and A. Al-Sharif, Abhath Al-Yarmouk, 13, 11 (2004).**
- 22. Superconducting materials and some of its electrical applications, A. Al-Sharif, Proceeding of the Int. Eng. Conf. Mu'tah – Jordan, 34, 26-29/4/2004.**
- 23. Effect of Sintering Time on Some Physical Properties of Zinc Ferrite, A. Tawfiq and A. Al-Sharif, Latv. J. Phys. And Tech. Sc.N3, 63 (2004).**
- 24. Structural and Magnetic properties of BaZn<sub>x</sub>Fe<sub>12-x</sub>O<sub>19</sub> Ferrites, A. Al-Sharif, M. Al-Saadi and H. Al-Jumaili (CIMTEC 2006).**
- 25. Effect of Co substitution on the structural and magnetic properties of Zn-w hexaferrites, D. Hemeda, A. Al-Sharif and O. Hemeda, JMMM 315 (L1-L7) 2007.**
- 26. Structural and magnetic properties of (Ni<sub>1-x</sub>Mg<sub>x</sub>)Fe<sub>2</sub>O<sub>4</sub> Ferrites, M. Abu-AlSondos and A. Al-Sharif, JJP, V2 No 1 (2009).**
- 27. The structural and magnetic properties of Bi<sub>1-x</sub>A<sub>x</sub>Fe<sub>1-y</sub>B<sub>y</sub>O<sub>3</sub> multiferroic compounds. A. Al-Sharif and A. Muqri , EPJ 29, 40 (2012) 29.**
- 28. The dc conductivity and magnetic properties of piezoelectric and piezomagnetic composite system, O.Hemeda, A.Tawfik, A.Al- Sharif , M Amer, And D. ElRefaay, JMMM 324(2012)4118.**
- 29. The structural and high magnetic permeability of NiCuZnMg ferrite, O. Hemeda, A.Tawfik, A.Al-Sharif and A. Elsheekh (accepted , JMP)**
- 30. The Electrical properties of NiCuZnMg Ferrite, O. Hemeda A. Tawfik, A.Al-Sharif and A. Elsheekh (submitted)**
- 31. Effect of Ca substitution on the structural and magnetic properties of Ni-Ferrites, O. Zarnoon and A. Al-Sharif, (under preparation)**
- 32. Effect of Sm and Sr substitution on the structural and magnetic properties of BiFeO<sub>3</sub> ferrites, A Muqri and A. Al-Sharif (submitted)**

## **RESEARCH EXPERIENCE:**

### **Advanced Materials ( fabrication and characterization)**

- 1. Magnetism (Magnetic and Structural properties of bulk and thin films materials).**

## 2. Superconductivity (Magnetic, Structural and electronic properties)

### Some of the Masters Theses I supervised:

The magnetic behavior of Sm-Co based systems .

By: R. Moubydeen (2003)

Preparation and evaluation of structural and magnetic properties of Barium Ferrite substituted by Zn and Ti

By: M. A. Al-Saadi (2004)

Magnetic and structural studies of  $(\text{Ni}_{1-x}\text{Ca}_x)\text{Fe}_2\text{O}_4$  ferrites

O. Zannon (2006)

Some Magnetic and Structural Properties of  $(\text{Ni}_{1-x}\text{Mg}_x)\text{Fe}_2\text{O}_4$  Ferrites

M. Abu-Sondos(2006)

The effect of elemental Substitution in BiFeO<sub>3</sub> Multiferroic

A. Muqri (2010)

### REFERENCES:

Prof. M.J.Oshea, Kansas State University,  
( email: mjoshea@phys.ksu.edu)

Dr. Amer Aqeli, Head Physics Department, Mu'tah University,  
JORDAN (email: ameroqali@gmail.com)

Prof. Ayman Sawalha, Dean Faculty of Science, Jarash University,  
JORDAN (email: [a.swalha@jpu.edu.jo](mailto:a.swalha@jpu.edu.jo), dr\_sawalha@hotmail.com)

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