

## Curriculum – Vitae of prof. Ayman Muh'd Salem Al-Sawalha



### Personal Information

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	Member of the Jordan of Society for Scientific Research (JSSR)



## Academic Degrees

<i>Educational Qualification/Certificate</i>	
	<p><b>Ph.D.</b> in Physics (Theoretical Physics). Rajasthan University India. From 1993 to 1996.</p> <p><i>Thesis title:</i> Radiation Properties of Microstrip Antenna in Plasma Medium.</p> <p><b>M.Sc.</b> in Physics (Electronics, Comprehensive Exam). Aligarh Muslim University, India. From 1991-1993.</p> <p><b>B.Sc.</b> in Physics, Mosel University, Iraq, From 1983 to 1987.</p>



## **PROFESSIONAL EXPERIENCE and POSITIONS**

Nov. 2010 – June 2013, Associate Professor, Department of Physics, Faculty of Science, King

Faisal University, Saudi Arabia.

Aug. 2002 – Nov. 2010, Assistant Professor, Department of Physics, Faculty of Science, King

Faisal University, Saudi Arabia.

Sep. 1997 – July 2002, Assistant Professor, Department of Science, Faculty of Agriculture and

Science, Jerash University, Jordan.

March 1994 – Aug. 1996, Teaching Assistant, Department of Physics, College of Science, Rajasthan University, India.

Oct, 1987 – June 1991, Ministry of Education, Jordan.

Associate Professor Communication & Electronics Department, Faculty of Engineering, Jerash University, Jordan, 6- College of Eng. Dean Assist, For scientific affairs and postgraduate studies on 9-11-2010.

## **ADMEN EXPERIENCES**



- Oct.2013 – present, Dean , Faculty of Science, Jerash University, Jordan.

## *-Articles*

- 1- **Ayman Al sawalha.**” Structural Characterization of Deformed Boron Nitride Nanotubes”, Journal of Computational and Theoretical Nanoscience, Vol.11,2014.
- 2- **Ayman Al Sawalha,** “Effect of Ionized Plasma Medium on Radiation Properties of Rectangular Microstrip Antenna Printed on Ferrite Substrate”, New Yourk Science Journal, Vol.7, 2014.
- 3- **Ayman Al sawalha,**” On the Two Model in Pure and Doped BSCCO Superconductors”, Journal of Natural Sciences, Vol.2, 2014.
- 4- **Ayman Al Sawalha,**” Anti-synchronization of fractional order chaotic and hyper chaotic systems with fully unknown parameters using modified adaptive control”, Open Physics, 2014.
- 5- Ayman Al Sawalha “Microwave Properties in Warm Collisional Magnetoionic Media”, IEEE Transaction on plasma Science, Vol.41, No. 9, Sep. 2013.
- 6- Ahmad Al Khateeb, **Ayman Al Sawalha,** “Power transmission Coefficient of a Shielded Cylindrical Vacuum Tube of Finite Well Thickness” .Accepted in the [Canadian Journal of Physics](#) (2013).
- 7- M.S.Bawa’aneh, **Ayman Al Sawalha,**”Microwave Propagation in a Magnetized Plasma Slab near a Perfectly Conducting Metallic Wall” .[Canadian Journal of Physics](#) **90**, pp. 241-247 (2012).
- 8- **Ayman AlSawalha,** Innas Al Mubarak, “Effect of Warm Ionized Plasma Medium on Radiation Properties of Four Elements Microstrip Antenna Array Printed on Ferrite Substrate, [Brazilian Journal of Physics](#), (2010).
  
- 9- **Ayman Al Sawalha,** “Effect of Warm Ionized Plasma Medium on Radiation Properties of Mismatched Microstrip Termination , [Journal of Electromagnetic Analysis and Applications](#),2009,3:pp.181-186.
  
- 10 - A.Sedky, **Ayman Al Sawalha,** A.M.Yassin,” Enhancement of Electrical Conductivity by Al-doped ZnO Ceramic Varistor , [Physica B](#),2009, 404,pp.3519-3524
- 11- **Ayman AlSawalha,**”Chaos anti-synchronization of two non-identical chaotic systems with known or fully unknown parameter, [Chaos, Solitons and Fractals](#),42, (2009),pp.. 1926-1923.
- 12- **Ayman Al Sawalha,**Abdalaziz A.Almulhem,A.Sedky,”The Influence of Cu and Mg Dopant on the Microwave Properties of PVC, [Ferroelectric](#),386,January (2009),pp..118-124.
- 13- **Ayman Al Sawalha,** M. Abdeen, A.Sedky,”Electrical conductivity study in pure and



doped ZnO ceramic system , [Physica B](#),404, (2008),pp.1316-1320.

14- Abdullah Aljaafari, A.Sedky,**Ayman Al Sawalha**,"Impact of Bi<sub>2</sub>O<sub>3</sub> addition on the normal state properties of Bi<sub>3.4</sub>Pb<sub>0.3</sub>Sr<sub>2</sub>Ca<sub>1.3-x</sub>RE<sub>x</sub>Cu<sub>2</sub>O<sub>y</sub> , [Journal of Physics and Chemistry of Solids](#),69,(2008),pp.2919-2923.

15- **Ayman Sawalha**, Q.Mohaidat,"Impact of Co Substitution at Fe Site on the Properties of Fe<sub>0.9-x</sub>Co<sub>x</sub>Zr<sub>0.1</sub>Alloys, [European Journal of Scientific Research](#),Vol.19,No.4, (2008),pp.654-660.

16- A.Sedky,M.I.Yoyssif,S.M.Khalil,**Ayman Al Sawalha**," On the correlation between order parameter , superconducting volume fraction and critical current density in R:123 superconductors ,[Solid State Communications](#),139 (2006),pp.126-131.

17- **Ayman Al Sawalha**,A.Sedky," Electrical Conductivity Study in Pure and Doped ZnO Varistor , [Presented in Saudi Meeting for Physical Science](#).(2006).

18- **Ayman Al Sawalha**,D.Bhatnagar, "On Radiation from a Conically Depressed Microstrip Antenna in Plasma ". [Indian J.of Physics](#),71B(5) , pp.597-606(1997).

19- Ayman Al Sawalha,D.Bhatnagar,"Effect of Electro acoustic Waves on Radiation Properties of Microstrip Matched Coaxial Termination ".[J. Plasma Physics](#), Vol.56, part1, pp25-34(1996). (U.K).

20- **Ayman Al Sawalha**, J. M. Gandhi,D.Bhatnagar, "Radiations from Electrically Thick Microstrip Patch in Warm Ionized Plasma." [Indian J.of Physics](#). 69B (5), pp 477-482(1995).

21- **Ayman Al Sawalha**, D. Bhatnagar , 'Study of Matched Microstrip Termination in Warm Ionized Plasma Medium. [Indian J.of Physics](#)71B (2), pp.173-181. (1997).

22- **Ayman Al Sawalha**,"Complex Permittivity of Soil at Microwave Frequencies" (Submitted).[Microwave Theory and Technology Journal \(MTT\)](#), U.S.A., (2016).

#### ➤ **BOOKS:**

1 - **Classical Mechanics**, (published at King Faisal University).2009

2 – **Electromagnetic**, (published at King Faisal University, 2010).

3- Chapter in a Book: **Thermoelectric Power** (Nova Science Publishers 2012).

#### **Referees:**

1- Prof. Dr. Abdul Latif Al Shareef, Physics Dept. Mu'ta University, Jordan.

2- Prof. Ahmad Al Khateeb, Physics Dept., Yarmouk University, Jordan.

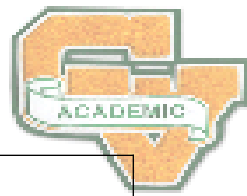
3- Prof. Dr. Abdelazeez Almulhem, Vice President of King Faisal University, Saudi Arabia.



#### **Membership(National and International Journals)**

1-Member of the Indian Science Congress

2- Member of the IEEE



3- Member of the Saudi Physics Society.

4-Reviewer in APPLIED PHYSICS LETTERS  
Published by the American Institute of Physics

5-Argonne National Laboratory  
6-Building 203, Room R-127  
7-Argonne, IL 60439-4843, USA

8-Supervisor of two M.Sc. student.



#### Conferences

Asia Pacific Microwave Conference (APMC 96), 1996, New Delhi, India

National Communication Conference, 1996, Bombay, India

Workshop on Experimental Physics for undergraduate level at Rajasthan Univ., India. (1996).



#### *Workshops*

Chairman and Organizing Committee Member Workshops