

Curriculum Vitae

Prof. Dr. Marouf Khalil Haj-Abdallah

A- Personal Information:

Name : Marouf Khalil Haj-Abdallah
Date of Birth: 5/8/1948
Place of Birth: Kufr-Raie
Nationality: Jordanian
Religion: Moslem
Marital Status: Married
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B- Education:

Tawjihi (general Sec. Certificate). 1967
B.Sc. Physics, University of Jordan, 1971
M.Sc. Physics, University of Jordan, 1976
Dr. rer.net., University Wurzburg/Germany, 1982.

C- Experience:

1971-1977 Teacher of Physics in high school, Ministry of Education
1977-1978 Laboratory Supervisor, University of Jordan
1982-1988 Assistance Prof. University of Jordan
1997- Professor of Physics, University of Jordan
1990-1991 Chairman of Physics Department
1991-1992 On leave at the Jordan Petra Univ.
1996-1997 On Leave at the Hashemite University "Chairman of Physics Dept".
2004-2005 Chairman of Physics Dept. Univ. of Jordan.
2009-2010 On leave at the German-Jordanian Univisity.

D- Fields of Scientific Interest:

- High Resolution Molecular Spectroscopy
- Electrical Properties of Solids
- (P , γ) nuclear reactions and their applications by using Van de Graaff accelerator.

E- Teaching:

I taught several subjects at the Physics Dept. like:

- General Physics for first year students (101 & 102).
- Optics (221)
- Modern Physics (261).
- Physics of waves and vibrations (222).
- Intermediate Electricity and Magnetism (253).
- Sp-Theory of Relativity (342).
- Advanced EM-Theory (353 & 453).
- Advanced Physics Labs (311 & 411).
- Quantum Mechanics (352).
- Supervisions of Labs (111, 112, & 211).
- Optics II (321).
- Electronics (231).
- Classical Mechanics (351).
- Astro. Physics 434.

F- Supervision:

- 1- Co-Supervisor of M.Sc. thesis work for 10 students.
- 2- Supervisor of four Ph.D thesis.

G- Graduated Examining Thesis Committees:

I was a member in many examining M.Sc. and Ph.D. thesis committees.

H- Committees Membership:

- 1- Member of committee of Physics Department and the Faculty of Science for the University of Jordan Van de Graaff accelerator.
- 2- Member of the second workshop ARTTA '87 organizing committee.
- 3- Member of third workshop ARTTA '95 organizing committee.
- 4- Member of committee of Graduated Studies at the Physics Dept.
- 5- Member of committee of Syllabus and Planning at the Physics Department.
- 6- Member of the Seminar committee at the Phys. Dept.

I- Publications:

A- Coauthor of the following Books:

- General Physics (part one) in Arabic. (For first year).
- Fundamentals of Electricity & Magnetism in Arabic. (For First year).
- Physics for the II grade — Ministry of Education
- Physical Optics (in Arabic). (For Second year)

- Natural sciences (open University)

- translation of general physics book by Giancoli.

B- Scientific Publications (with other authors)

- 1- Vibrational Spectra and Force Constants of Symmetric Tops. *Z. Naturforsch*; 40a, 233 (1985).
- 2- Temperature dependence of Dielectric Behavior of illuminated Hg12 Crystals. *App!. Phys.*; A43, 61(1987).
- 3- Temperature Dependence of AC-Photoconductivity of Hg12 Crystal. *Appl. Phys.*; A42, 129 (1987).
- 4- The Determination of U and Th in some Jordanian Mineral Deposits Using Natural 1-Ray Spectroscopy. *Dirasat (Sci)*, 14, 187 (1987).
- 5- Effect of Visible Light Intensity on the Dielectric Behavior of Mercuric Iodide. *App!. Phys.*; A42, 123 (1987).
- 6- Evidence of Space Charge Conduction in Hg12. *J. Appl. Phys.* 63, 2686 (1988).
- 7- Detennination of the Protein Quality and Quantity in Plant Materials by Proton Induced Gamma-Ray Analysis. *AppI. Radiat. Isot.*, 39 1233 (1988).
- 8- Mirconanalytics of Light Elements by Proton Induced 1-Ray Emission. *Dirasat (Sc.)*; 15, 120 (1988).
- 9- Crystallinity Enhances Light Transmmissivity Through Low-Density Polythelene Sheets. *J. of Material Sciences*; 25, 1808(1990).
- 10- Electrical Properties of Oilshale Rocks. *Journal of Material Science*; 26, 203 (1991).
- 11- Depth Profiles of implanted Ar in Copper in the Energy range 280-440 KeV. *Dirasat*; 19B, 13 (1992).
- 12- Effect of Annealing on the electrical properties and Refractive Index of Hg12 Single Cystals. *Appl. Physics A*; 60 (1990).
- 13- Depth Profiling of Na and Ne Implantation into Iron and Steel Using (P,1) reactions. *Dirasat.*, Vol. 23, no 2, 137 (1996).
- 14- Dielectric Properties of Epoxy-Glass Mircoballoons Composite. *Journal of Polymer. Mater.* 12, 15 1-156, (1995).
- 15- Optical Propertis of Epoxy-Glass Mircoballoons Composite. *Optical Materials* 5, 69-73 (1996).

- 16- AC-Electrical Behaviour of Mercuric Iodide Under Diferent Light Intensities. Egyptain Journal of Solids, 8 (1986).
- 17- Activation Energy of HgI₂ Crystal. Egyptian Journal of Solids, 8 (1986).
- 18- Dynamic, Mechanichal and Impedence Behavior of Talc Polypropoline Composite. Appl. Phys. Communications; 8, (1988).
- 19- AC Impedance, Pennittivity and Modulus Spectroscopy of lead chloride Single Cystal. Appl. Phys. A 64, 199-201 (1997).
- 20- Electrical Characterization of Metal Fiber-Polyester Camposite. Intern. J. polymeric. Mater. Vol. 1-10 (1997).
- 21- Temperature Dependence of electrical properties of Epoxy-Glass Microballoons Composite. J. Polym. Mater. 13, (1996) 253-257.
- 22- AC Impedance, Pennittivity and Modolus Spectroscopy of InSbBi Single Grystal. Submitted to Dirasat for publication.
- 23- Electrical properties of CuInS₂ Single Crystal. "to be published".
- 24- تحديد نسبة N/C و S/C في النباتات البقولية باستخدام التقنيات النووية. دراسات العلوم 14(1987).
- 25- تحديد محتوى اليورانيوم والثوريوم في المناطق الجنوبية من الأردن باستخدام مطيافية أشعة جاما الطبيعية. العدد التاسع عشر (ب) (1992)، صفحة 7 من العدد الثاني.
- 26- "Glass transition activation energy,...", Omar A.Lafi, Mousa M.A. Imran, Marouf K. Abdullah. Physica B(2007).
- 27- "Chemical bond approach to glass...", Omar A.Lafi, Mousa M.A. Imran, Marouf K. Abdullah. Materials Chemistry and Physics(2007).
- 28- Optical properties of a-Se₉₀In_{10-x}Sn_x thin films before and after gamma irradiation Radiation physics and Chemistry 79(2010)923-928.
- 29- Experimental investigation on some electrical properties of I_{n10-x}Sn_xSe₉₀ current Applied Physics (2010) in press.