

## *Curriculum Vita*

- **Name: Prof. Dr. Yahya N. Al-Jammal**
- **Family Name: Al-Jammal**
- **Date of Birth: 29/1/1947**
- **Place of Birth: Mosul – Iraq**
- **Nationality: Iraqi**
- **Sex: Male**
- **Marital Status: Married**
- **Number of Children: Four**
- **Mother Tongue: Arabic**
- **Foreign Languages: English**
- **Present Address:** Physics Dept., Science College, Mosul University, Mosul – Iraq
- **Home Address:** Al-Kafaat Al-Owla Area, House No. 1/95/324, Mosul-Iraq
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- E-mail: dr\_yahya\_aljammal@yahoo.com
- **Qualification:**
  - 1- B.Sc. “Physics”, Science College, Mosul University (Iraq), (1968).
  - 2- M.Sc. “Solid State Physics”, Sussex University (U.K.) (1972).  
**Thesis Title:** “Electron Produced Sputtering of Alkali Halides”.
  - 3- PhD “Material Science”, Sussex University (U.K.) (1976).  
**Thesis Title:** “Anomalous Ionic Conductivity in LiF/ MgF<sub>2</sub> Single Crystals”

□ **Academic Status:**

- 1- Demonstrates at Physics Dept, Science College, Mosul University since (1968-1970).
- 2- Lecturer at Physics Dept, Science College, Mosul University, since (1976-1981).
- 3- Ass. Prof. at Physics Dept. Science College, Mosul University, since (1981-2001).
- 4- Prof. at Physics Dept. Science College, Mosul University, since (2001).

□ **Academic Post:**

- 1- Assistant Head of Physics Dept. at Science College, University of Mosul, since (1984-1987).
- 2- Head of Physics Dept at Science College, University of Mosul, since (1987-1990).
- 3- Head of Physics Dept. at Science College, University of Mosul, since (1996- until 10<sup>th</sup> May 2003).

□ **Teaching Duties (Subject):**

a- **Postgraduate:**

- 1- Advance Solid State.
- 2- Colour Centre.
- 3- Advance Material Science.

b- **Undergraduate:**

- 1- Solid State Physics.
- 2- Crystallography.
- 3- Material Science.
- 4- Thermal Physics.

- 5- Polymer Physics.
- 6- Electricity and Magnetism.
- 7- General Physics.

□ **Scientific Activities:**

**A- Books Authorized:**

- 1- “Solid State Physics” 1<sup>st</sup> edn. Dar Al-Hekma Press and Pub. Co. Mosul University (1990).
- 2- “Solid State Physics”. 2<sup>nd</sup> edn. Complete, Dar Al-Kotb Press and Pub Co. Mosul University (2000).

**B- Books Translated:**

Burns D.M. and MacDonald S.G.G. “Physics for Biology and Pre-Medical Student” 2<sup>nd</sup> edn. (1975) Translated by Al-Jammal and Ali, Dar Al-Kotb Press and Pub. Co. Mosul University (1983).

**C- Postgraduate Supervision:**

**a- Number of Ph.D. student = Five**

**Thesis Title:**

- 1- Characteristics of Insulated Gate Field Effect Thin Film Transistor (TFT).
- 2- Study of Partial Substitution Effect of Tl, Sr and La on Structure and Electrical Properties of High Temperature  $\text{Bi}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$  Super conductor.
- 3- Study of Physical Properties for Grow the Oxide on Silicon substrate by Using Anodic Oxidation.
- 4- The Study of Same Physical Properties of Synthetic Pure Polymer and doped with Nano – metal oxid. -4

- 5- The Study of Thermoelectric and optical properties of some Transition pure and doped oxid metals.

**b- Number of M.Sc. Student = 15**

**Thesis Title:**

- 1- Effect of Absorber Gas Atom on the Mean Free Path.
- 2- Effect of Secondary Electron Emission Saturation Current and Dosimetric Measurements.
- 3- Study of Breakdown Field in Built-Up Thin Films Capacitors.
- 4- Study of Destructive Breakdown In Built-Up Thin Films Capacitors.
- 5- A Study of the Mean Free Path of Conduction Electrom in Thin Metallic Film.
- 6- Electrical and Optical Properties of Pure and Doped Polyacrylic Acid.
- 7- Study of Electrical and Optical Properties of Polyacrylamide and Sodium Salt of Polyacrylic Acid.
- 8- Electrical Breakdown in Polymers Thin Film Capacitor.
- 9- Study of Gamma Radiation Effect on Electrical Properties For Thin Film Capacitor of Poly Methyl Metha Acrylate (PMMA).
- 10- Study of Alloys Polymers Effect on Operation Specification for Polymers Thin Film Capacitors.
- 11- The absorption of Microwave Through Multilayer Polymer Thin Films.
- 12- Studying the Iron and Ferrite Grain Sizes Effect on the Absorption Properties of the Radar Waves Absorbing Surfaces within X-band.

- 13- The effect of Microwaves on the Physical Properties on Styrene-Butadiene Rubber as Pure and Filled with Black Carbon.
- 14- The Effect of Neutron Radiating and Temperature Degree on the Some Physical Properties of Nitrile-Butadiene Rubber NBR as Pure and Doped.
- 15- The Effect  $\gamma$ - radiation on Physical properties of (metal – polymer – semiconductor) device.

**D- Number of Publication = 32**

***List of Publication:***

- 1- “The Role of Excitation Diffusion in Electron Induced Sputtering of Alkali-Halides”, J. Phys. C6, 247 (1973).
- 2- “Possible Structure for Alkali Ions on the Surface of Alkali Halides”, J. Phys. C6, 955 (1973).
- 3- "Anomalous Generation of Point Defects in Alkali Halide Crystals", Scripta Metallurgica, Vol. 11, 6, PP. 451-454 (1977).
- 4- “Breakdown Field in Built-Up Barium-Laurate Films”, Raf. J. Sc. 4(2), 21, (1981).
- 5- “Mechanism of Breakdown Conduction in Thin Insulating Films”, J. Edu. and Sci. 3, 121, (1981).
- 6- “Unambiguous Determination of Force Constant Change of Mossbauer  $^{119}\text{Sn}$  Impurity Nuclei in Palladium Host”, Acta Phys, 50(3), 195, (1981).
- 7- “An Amorphous SiGe Thin Transistor” Raf. J. Sci. 11, 1, 130, (2000).
- 8- “Effect of Neutron Radiation On the Electrical Conductivity of Polyacrylic Acid Doped with Potassium Ions”, J. Edu. and Sci. 42, 29, (2000).

- 9- "Electrical Properties of (a-GaAlAs) Field Effect Thin Film Transistor (TFT)" J. Edu. and Sci. 46, 123, (2000).
- 10- "A Simplified Experimental Model for Inter Diffusion Process in Annealed Poly- Si. MOS Devices", Raf. J. Sci. 12, 2, 122, (2000).
- 11- "Study of Sequence Breakdown in Thin Film Polymethyl-Metha Acrylate Capacitors", Raf. J. Sci. 12, 1, 102, (2001).
- 12- "The Effect of Flame Heat on Electrical Properties of Cross-Linked Polyethylene". Raf. J. Sci. 12, 3, 115, (2001).
- 13- "Frequency and Biasing Dependence of Capacitance and Conductance in P<sup>+</sup>/ a- Si / P<sup>+</sup> Devices", J. Edu. And Sci. 49, (2001).
- 14- "Secondary Electrons Emission in Non-Symmetric Ionization Chambers", Raf. J. Sci. 12, 4, 69 (2001).
- 15- "Amorphous Silicon Thin Film Transistor" Raf. J. Sci. 12, 4, 78 (2001).
- 16- "Electrical Properties of Thin Film Poly-Vinyl Chloride Capacitors", Raf. J. Sci. 13, 1, 78 (2002).
- 17- "Study of Electrical Conductivity of Pure and Sodium Doped Polyacrylic Acid", J. Edu. and Sci. 14, 2, 43, (2002).
- 18- "Characterization of Fabricated (Metal-Insulator-Semiconductor) Device", Raf. J. Sci. 14, 1, 92 (2003).
- 19- "Pressure Dependence of the Recoilless Fraction for 14.4 Kev Transition of Fe<sup>57</sup> In Copper", Raf. J. Sci., 16, 1, 25 (2005).
- 20- "Attenuation of Microwave of Frequency **10GHz** on the polymer Pigment with Oxide Films", J.Edu. and Sci., 17, 3, 99, (2005).

- 21- " The Effect of Gamma Radiation on Electrical Properties for Thin Film Capacitor on Poly Methyl Metha<sub>2</sub> Acrylate (PMMA)", Raf. J. Sci., 17, 2, 139 (2006).
- 22- " Electrical Properties of Thin Film Capacitors of Polymeric Alloys", Raf. J. Sci, 17, 2, 33, (2006).
- 23- " Partial Substitution effect on Structure and Electrical Properties of High Temperature  $Bi_{2-x}Tl_xBa_{2-y}Sr_yCa_2Cu_3O_{10+\delta}$  Superconductors", Tikrit Journal of Pure Science, 13, 2, 287,(2008).
- 24- " The Study of Electrical Properties of poly-metheyl meth Acrylates (PMMA) at Different Frequencies and Temperatures", J. Edu. and Sci.,23, 3, (2010).
- 25- The Nanotopography of the SiO<sub>2</sub> thin film grown on Si substract using Anodic oxide technique in DMSO medium", Proceeding of the second scientific conference on Nanotechnology, Advanced materials and Their Applications, University of Technology, IRAQ, pp. 208-219, (2010).
- 26- The effect of neutron Radiation and Tempreture on Properties of Nitrile- Butadiene rubber (NBR) as pure and daped with Lead  
J. Al-Mustansria J.sci(22,6(2011)
- 27- The Growth and Investigation of Interface of SiO<sub>2</sub>/Si by anodic oxidation technique usingacitic Acid medium.Raf..sci .volum 23,No.4(2012).
- 28- The Growth SiO<sub>2</sub> Nano Film on Silicon Substrate by Anodic Oxidation Technique in Boric acid Solution "Proceeding of the second Scientific conference in Chemistry. Chemistry dept,Science College, Universty of Mosul(22-23) Nov. (2011)

29- The Effect of Different Silicon Substrate on the Characteristic of solar cell types Mos. to be published on J.Edu. and sci.

30- Effect of Zink oxid on Thermoelectric Power for some Oxide Element Metals (Mgo, Cuo and Feo). To be Publised on Basic Eduction college Research Journal.

31. A study of Eectrical Conductivity of Azo Pure Polymer and Doped with Nano – Oxide Metals . To be Published on Basics Eduction College Research Journal.

32. Determination of the Ideal Hardness Values for Samples Compound and alloys Fabricated from Powder Oxid of Single Metal Elements. To be Publised on Basic Eduction college Research Journal.