**Curriculum Vitae**

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| **1.Personal Information** | |
| **Name** | **Ali Mohammed Ali Qudah**  **علي محمد علي القضاة** |
| **Nationality** | **Jordanian**  **الأردنية** |
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| **Birth** | **Jordan 1960** |

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| **2.Academic Qualifications** | | | | |
|  | **University** | **Year** | **Country** | **Major** |
| **B.A** | **Yarmouk** | **1982** | **Jordan** | **Physics** |
| **M.A** | **Jordan** | **1986** | **Jordan** | **Physics** |
| **Ph.D** | **Reading** | **1990** | **England** | **Physics** |

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**3) Academics**

• 1982, BSC,(Physics/major, Computer science / minor),Yarmouk University / Irbid / Jordan.

• 1986, MSC, (Physics, Thesis: Transmissivity of thin gold films), 1986, University of Jordan /

Amman / Jordan.

• 1990, Ph.D., (Experimental Condensed matter physics, Thesis: The effect of deposition

conditions on the physical properties of a-Si films), 1990,

JJ Thomson Physical Laboratories, Reading University, Reading, Berks, UK.

• 1990, Assistant Prof. / physics department / Mu'tah University/ Jordan.

• 1995, Associated Prof./Physics Department / Mu'tah University.

• 1996 Head of Physics Department / Mutah University / Jordan

• Chairman of the Preparatory and Scientific Committees of The Materials Science Conference

Held at Mutah University/Jordan 1997

• 1997 Dean of Faculty of Science / Mutah University / Jordan

• 1998, Sabbatical at Al-Albeit university/Jordan.

• 1998 Assistant Dean of Scientific research and Higher Education / Al-Albait University /

Jordan (Sabbatical Year)

• 2000, Visiting Associate Professor at Iowa State University/USA.

• 2009-2011, Visiting professor at “Materials Research and Technology Institute” , University of Texas at El Paso

• 2013 Professor of physics

**4) University Teaching Experience**

**A- Courses**

• General Physics I.

• General Physics II.

• General Physics III.

• Optics.

• Analog and Digital Electronics courses.

• Electromagnetic theory I

• Electromagnetic theory II

• Graduate-Electromagnetic theory, fields and Waves.

• Modern physics.

• Quantum mechanics

• Solid state physics.

• High Vacuum Techniques

• Thin Film Techniques

• Materials Physics

**B-Laboratories**

• General Physics Laboratory I.

• General Physics LaboratoryII.

• Optics Laboratory.

• Electronics Laboratory.

• Intermediate Laboratory.

• Advanced Laboratory.

**4)** Experimental Research Experience

• High Vacuum Systems, Building and Training

• Thin Film Fabrication , Thermal Evaporation, RF & DC Sputtering

• Thin Film Measuring Techniques, Most of Thin Film Related Measuring Techniques

• Solar Cells ( Organic, and inorganic), Fabrication & Characterization

• Polymer light Emitting Diodes ( PLED), Fabrication & Characterization

• Scanning and Transmission Electron Microscopy

• Spectrophotometric Measurements

• X-Ray spectroscopy

• Magnetic Measurements

• High And Low Temperature Thin Film Conductivity Systems

• Differential Scanning Calorimetry (DSC)

• Computer Programming (Basic) and Management

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| **5) Articles** | | | | |
| **Title** | **Journal** | **Date** | **Vol. & No.** | **Pages** |
| 1- Morphology and melting behavior of Poly(butylene terephthalate), | Polymer International | 1995 | **37** | **47-52** |
| 2- On the triple melting behavior of Poly(ethylene succinate), | Polymer International | 1995 | **37** | **249-254** |
| 3- Morphology and melting behavior of Poly(ethylene terephthalate)crystallized from the  glassy state | Polymer International | 1995 | **38** | **367-373** |
| 4-Surface morphology and annealing of Poly(butylene terephthalate) | Polymer International | 1995 | **38** | **375-380** |
| 5- Morphology and melting behavior of Poly(Vinylidene Flouride) crystallized from the melt | Polymer International | 1995 | **38** | **381-385** |
| 6- Thermal behavior and annealing of Poly(Vinylidene fluoride), | Polymer International | 1996 | **41** | **323-326** |
| 7- Phase behavior of poly(ethylene oxide)/Poly(styrene-comaleic anhydride), | Polymer International | 1997 | **42** | **429-435** |
| 8- [Thermal Behaviour of Poly ( Ethylene Succinate ) Crystallized From the Glassy State](http://searchlib.yu.edu.jo/pls/libdb/f?p=101:5:104284668404285::NO::P5_ISN:343311) | [**مؤتة للبحوث و الدراسات : سلسلة العلوم الطبيعية و التطبيقية**](http://searchlib.yu.edu.jo/pls/libdb/f?p=101:3:104284668404285::NO::P3_ISN:274161) | 1997 | **12/3** | **195-212** |
| 9- Isotactic Polypropylene crystallized from the melt. Part A: Morphological study, I | **J. Applied Polymer science** | 1998 | **67** | **1259-1265** |
| 10- Isotactic Polypropylene crystallized from the melt. Part B: Thermal melting behavior | **J. Applied Polymer science** | 1998 | **67** | **1267-1271** |
| 11- [The Effect of Deposition Conditions on the Electrical and Optical Properties of RF and DC Sputtered Thin Molybdenum Films](http://searchlib.yu.edu.jo/pls/libdb/f?p=101:5:104284668404285::NO::P5_ISN:376047) | **المنارة : للبحوث و الدراسات** | 2001 | **7/1** | **169-182** |
| 12- [On the Crystallinity of RF Sputtered Thin Molybdenum Films](http://searchlib.yu.edu.jo/pls/libdb/f?p=101:5:104284668404285::NO::P5_ISN:376057) | **المنارة : للبحوث و الدراسات** | 23001 | **7/1** | **183-198** |
| 13- [Nanocrystallization and Electrical Resistivity of Fe88 Zr6 B6 Amorphous Alloy](http://searchlib.yu.edu.jo/pls/libdb/f?p=101:5:104284668404285::NO::P5_ISN:353144) | [**دراسات : العلوم الأساسية**](http://searchlib.yu.edu.jo/pls/libdb/f?p=101:3:104284668404285::NO::P3_ISN:298439) | 2002 | **29/1** | **12-21** |
| 14- Luminescence properties of europium (III) cryptates trapped in sol–gel glass | **Journal of Luminescence** | 2008 | **128** | **227-231** |
| 15- Compositional dependence of the electrical conductivity of calcium vanadate glassy  semiconductors | **Journal of Physics and Chemistry of Solids** | 2007 | **68** | **1926-1932** |
| 16- Hamilton-Jacobi Treatment of Lagrangians Within Fractional Caputo Derivatives, | **European Scientific Journal** | 2013 | **9/15** | **286-292** |
| 17- Mathematical Treatment of Oscillatory Systems Using The Fractional Calculus, | **European Scientific Journal** | 2013 | **9/15** | **265-271** |
| 18- Cyclotron Spectral Intensities from AM-Her Systems | **European Scientific Journal** | 2013 | **9/15** | **142-159** |

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| **6.Patents** |
| **5- Patents** |
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6- References

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