



**CURRICULUM VITAE**  
**Prof. Dr. Abdulaziz Abualfadl Abdulaziz**

<b>Name</b>	<b>First</b>	<b>Middle</b>	<b>Last</b>
	<b>Abdulaziz</b>	<b>Abualfadl</b>	<b>Abdulaziz</b>
<b>Citizenship</b>	<b>Egyptian</b>		
<b>Date and Place of Birth</b>	<b>Febraury 20, 1954, Sohag, EGYPT.</b>		
<b>Correspondence Address</b>	<b>Physics Department- Faculty of Science- Assiut University- Assiut Egypt</b>		
<b>Phone</b>	<b>002-01000839655</b>		
<b>Fax</b>	<b>002-088-2342708</b>		
<b>E-mail</b>	<b>abulfadla@yahoo.com</b>		

**ADDRESS: Physics Department- Faculty of Science-Assiut University- Assiut Egypt.**

**QUALIFICATIONS:**

**Ph.D., Physics (Solid State, Crystal Growing and Ferroelectric Materials), FACULTY of SCIENCE, PHYSICS DEPARTMENT ASSIUT UNIVERSITY, EGYPT, 1984. Thesis under the title : Growth and Studies of Some Physical Properties of Triglycine Sulfate Single Crystals.**

**M.Sc., Physics (Solid State), FACULTY OF SCIENCE, ASSIUT UNIVERSITY, ASSIUT, EGYPT 1981. Thesis under the title: "Growth and Physical Properties of Some Ferroelectric Crystals".**

**B.Sc., Physics (Special) FACULTY OF SCIENCE, ASSIUT UNIVERSITY, ASSIUT, EGYPT 1975.**

**JOBS: 1975-1981: Demonstrator, UNIVERSITY of ASSIUT 1981-1985:**

**Assistant lecturer, Physics Department, Faculty of Science**

**ASSIUT UNIVERSITY. 1975-1991: Lecturer Physics Department, Faculty of Science,**

**ASSIUT UNIVERSITY. 1991-1999: Assistant Professor, Physics Department, Faculty of Science,**

**ASSIUT UNIVERSITY. 1999 Till now: Professor of Solid State Physics, Physics Department, Faculty of Science, Assiut University.**

### **EXPERIENCE:**

**[1] 1977-1981: In charge of under-graduate Laboratories Preparation of experiments. Maintaining equipment, management of laboratory assistants.**

**[2] 1981-1984: Built a laboratory unit for Crystallizing materials from solution and construct circuits for measuring some of their physical properties.**

**[3] 1984 till now: Responsibilities included: The design of practical course outlines, supervising lab. assistants, teaching courses for both the under-graduate and the post-graduate students, supervising students for the M.Sc. and the Ph.D. degrees, carry on research work in the field of crystal growing and physical properties of crystals.**

### **Society Membership:**

**[1] The Egyptian Network of Radiation Physics, Egyptian Atomic Energy Authority.**

**[2] The Egyptian Society of Crystallography**

**[3] The Egyptian Society of Solid State Science and Applications.**

### **Interest:**

**\*Interaction of Radiation with Matter (X-rays- Electron Beam- Gamma Rays)**

**\*Medical Physics**

**\*Teaching courses for B.Sc and M.sc students Faculty of Medicine Department of Radiation Diagnosis and Radiation Therapy**

**\* Crystal Growth of Pure and Doped Single Crystals**

**\* A good command on thin film r.f. and d.c sputtering in both physical vapor deposition and reactive sputtering modes using (balanced and unbalanced) magnetron configurations and Chemical Bath Deposition Technique.**

**\* Plasma-Enhanced Chemical Vapor Deposition technique.**

**\*Excellent hand on Optical Characterization using Spectroscopic, Spectrophotometer and FTIR techniques.**

**\* Electrical characterization of Single Crystals, Metals and thin film device fabrication using the d.c. and a.c. I-V characterization. Also thin film resistivity measurements and Complex Impedance characterization.**

**\* Thermal properties of bulk materials and thin films using DTA, DSC and by using flash method technique.**

**\* Synthesis and characterization of nanaomaterials**

### **Training and Fellowships:**

**1] Research Fellowship, September 1987-May 1988, Twente University, Holland.**

**2] Research Fellowship, January 1989-May 1989, Twente University, Holland.**

**3) Visiting Professor , Taiz University, Republic of Yemen, 8 March 2006- 6 May 2006.**

**4) Physics Department, Faculty of Teachers, Taif University, Kingdom of Saudi Arabia. (1989-1994)**

**4) Professor of Medical Physics Department, Faculty of Applied Medical Science, Jazan University, Kingdom of Saudi Arabia. (2007-2013)**

### **Other Activities:**

**1) Organizing: The First International Conference On Basic Science And Advanced Technology 9-12 November 1996, Assiut University.**

**2) Organizing: The First International Spring School On Current Activities Of Materials Science, 24-28 April 1999, Assiut University.**

**3) Organizing: The Second International Spring School On Current Activities Of Materials Science, 22-26 April 2000, Assiut University.**

**4) Organizing: One Day Seminar On New Aspects Of Amorphous And Crystalline Materials, 10 November 2001, Assiut University.**

5-Organizing: The VI international conference on radiation physics, 27-30 October 2002, Assiut University.

6- Organizing: The Workshop on Materials Science and Radiation Physics, 20-22 December 2003, Assiut University.

7- Organizing: The VII international conference on radiation physics and protection, Suez Canal University, Ismailia, Egypt.

8- Organizing: The VIII international conference on radiation physics and protection, 12-15 November 2006, Bani Suief, Egept.

9) Member of Research Project (Sugar 56) On: Study of Crystallization Processes From Supersaturated Sugar Solutions And Methods To Overcome Its Retardation (31 October 1996- 30 October 1997)

#### Supervision of Research Thesis:

Ph.D. Theses Supervised :	8 (completed)	
M.Sc. Theses Supervised :	8 (completed) +	3 (ongoing)

#### Research Projects:

##### Research Project (Sugar 56 -1996)

Study of Crystallization Processes From Supersaturated Sugar Solution  
And Methods To Overcome Its Retardation

(دراسة عمليات البلورة من محلول السكر فوق المشبع وطرق التخلص من معوقاتهما)

#### Recent Review of Thesis, Scientific Papers, Projects and Promotions:

- 1- Reviewer of Paper: Thermal Analysis of Specific Heat Measurements in Glassy  $Se_{80-x}Te_{20}S_{bx}$  Alloys in Glass Transition Region, by S. Saraswat and S. D. Sharma, International Journal of Thermophysics, June 17, 2014.
- 2- Reviewer of Paper: Investigation on crystal growth, structural, spectral, optical, thermal and mechanical properties of Glycinium p-toluenesulfonate (GPTS) single crystals," by Renugadevi Ramasamy, Kanchana Ganapathy and Kesavasmy Ramasamy, Advances in Physical Chemistry Journal. 2014
- 3- Reviewer of Paper: Distinguish Bonding Characteristics in Metallic Glasses by Correlations  
Journal of Non-Crystalline Solids, Aug. 2010.
- 4- Reviewer of Paper: Crystallination Kinetics of  $Si_{15}Te_{15}$  and  $Si_{20}Te_{20}$  Chalcogenide Glasses.  
PhysicaB, May 2008.
- 5- Arbitrator for the Degree of professor of Solid State Physics Dr. Nada Khogeir Girls Faculty of Science- Bagdad University- Bagdad- Iraq, 2013.
- 6- Dr. Bushra Abass Hassan  
Department of Physics, College of Science, University of Baghdad, Iraq  
Arbitrator for the Degree of professor of Solid State Physics, 2013.
- 7- Dr. Mahdi H. Suhail  
Department of Physics, College of Science, University of Baghdad, Iraq

- Arbitrator for the Degree of professor of Solid State Physics, 2012.
- 8- **Yousuf Payar Hassan**  
 Department of Physics, Haaramout University of Science and Technology, Mukalla, Yemen, 2010.  
 Arbitrator for the Degree of professor of Solid State Physics.
- 9- **Arbitrator for Research Excellence Award**  
 Al-Imam university, Riyadh, Saudi Arabia  
 Title: Planetary Milling Parameters Optimization for the Production of ZnO Nanocrystals., 2013.
- 10- **Arbitrator for Msc. Thesis Titled: Theoretical Studies on Non-Linear Dose Response of Thermoluminescence Glow Curves.**  
 By: **Norah Dhayfallah Homud Alqithami**  
 Physics Department, Faculty of Science, Taif University, Taif, Saudi Arabia, 2013.
- 11- **Arbitrator for Msc. Thesis Titled: Mössbauer Spectra and Magnetic Studies of Ni and Ni-Cu Ferrite Nanoparticles Processed by Microwave Combustion Method.**  
 By: **Abdelnaby Mohamed Kotb**  
 Physics Department, Faculty of Science, Assiut University, Assiut, Egypt
- 12- **Arbitrator for Msc. Thesis Titled: Study of the Thermal Properties of Liquid Organic Compounds.**  
 By: **Ahmad Abu-Almaaref Abdel-Raheem**  
 Physics Department, Faculty of Science, Al-Azhar University, Assiut Branch, Assiut, Egypt, 2007
- 13- **Arbitrator for Msc. Thesis Titled: Preparation and study of the physical properties of CuGaSe<sub>2</sub> and AgInS<sub>2</sub> semiconductor compounds.**  
 By; **Fatma Saad Gameh**  
 Physics Department, Faculty of Science, South Valley University, Qena, Egypt, 2006.
- 14- **Arbitrator for STDF NRG Proposal id 6003 Titled: Multi-purpose optical nano-sensor based on fluorescence quenching of cerium oxide nanoparticles"**
- 15- **Arbitrator for STDF NRG Proposal id 6380 Titled: An Attempt To Realize A Cheap Photo-sensor Locally For Economizing Water And Electricity Consumption**
- 16- **Arbitrator for "STDF Korean Proposal id 6021 Titled: "Fabrication of some Ferro-alloys and Composites from Secondary Resources by**
- 17- **Arbitrator for "STDF Korean Proposal id 6031 Titled: Development of ferrite – bainite (FB) dual phase steel grade for outmotive industry." 6/8/2013**
- 18- **Arbitrator for the First Progress Report for Project No (185L423). University of Kingdom Abulaziz, Gadah, Saudi Arabia, 2004**
- 19- **Arbitrator for the Second Progress Report for Project No (185L423). University of Kingdom Abulaziz, Gadah, Saudi Arabia, 2005**
- 20- **Arbitrator for the Final Report for Project No. (185L423). University of Kingdom Abulaziz, Gadah, Saudi Arabia, 2005**
- 21- **Reviewer for Article: The study of the spectral polarity properties of the optical anhomogeneous crystals, Damascus University Journal, October 2000.**

**CONFERENCES:** Participant in International, Regional or National workshops, meetings or conferences in the fields of interest (Research work and Education).

1	The 1 <sup>st</sup> Internal Conference On Condensed Matter, Jordan university, 27-31 October 1986, Amman, Jordan.
2	The X Solid State Conference, 6-9 April 1987, Alexandria, Egypt.
3	The XVIII Solid State Conference 22-26 January 1995, Sues, Egypt.
4	One Day Seminar On Crystallography And Its Applications, 20 April 1995, Ain-Shams University, Cairo, Egypt.
5	The XVIII Solid State Science Conference, 13-17 March 1996, Ismailia, Egypt.
6	One Day Seminar On Crystallography And Recent Advances In Science And Technology, 26 December 1996, Helwan university, Egypt.
7	The International School And Workshop On Crystallography, 5-11 April 1997, Sues, Egypt.
8	The XXI Solid State Science Conference, 23-26 April 1998, Mansoura, Egypt.
9	Workshop On Latakia University, 10-21 November 2000, Latakia, Syria.
10	The International Conference On Materials Science And Applications, 2-4 April 2001, Bani Suief university, Bani Suief, Egypt.
11	Workshop On Crystallography Science And Technology, 2-7 February 2002, Ismailia, Egypt.
12	Fourth International Conference on "Control Of Semiconductor Interfaces At The Karuizwa, 21-25 October 2002, Japan.
13	First Spring School On Current Activations Of Materials Science, April 24-28, 1999.
14	The xxi Conference On Solid State Science And Workshop On Silicon Technology In Optoelectronics, 23-26 February 1999, Mansoura, Egypt.
15	The International School And XV Workshop, 5-11, April 1997, Suis, Egypt.
16	The 1 <sup>st</sup> International Conference On Basic Science And Advanced Technology, 9-12, 1996, Assiut University.

17	<b>Second Spring School, 22-26 April 2000.</b>
18	<b>International Conference On Development And Environmental In Arab Countries, 26-28 March 2002, Assiut University.</b>
19	<b>Egyptian- Ukranian Workshop On Magnetic Materials Academic Research Center, Cairo, Egypt.</b>
20	<b>6<sup>th</sup> International Radiation Physics Conference, 27-30 October, 2002, Assiut.</b>
21	<b>VII Radiation Physics And Protection Conference, 27-30 November 2004, Ismaelia, Egypt.</b>
22	<b>The IX International Conference On Nuclear Sciences And Its Applications, Sharm El-Sheih, 11-14 February 2008.</b>
23	<b>Workshop On Applications Of X-ray Diffraction Florescence In Research And Industry, 15-16 January 2007, Ain Shams university, Cairo, Egypt.</b>
24	<b>The Second All African Irpa Regional Radiation Protection Congress, 22-26 April 2007, Ismailia, Egypt.</b>
25	<b>International Conference for Development and the Environment in the Arab World, 23-25 March 2014, Assiut University, Assiut, Egypt</b>

**PUBLICATIONS** About 90 publications in the field of Crystal Growing and Thin Films Electrical, Dielectric and Thermal Properties of Ferroelectric Crystals and Thin Films Published in well known Journals In SEPARATE LIST

## LIST OF PULICATIONS

**Prof. Abdel-Aziz Abul-Fadl Abdel-Aziz**  
*Physics Department, Faculty of Science, Assiut University,*  
**ASSIUT, EGYPT.**

	<p><b>Claim your publication stats 47 Publications</b>  <b>Total Impact 64.63</b>  <b>Average Impact 1.38</b>  <b>Citations190</b></p>
[1]	<p>Growth of High Optical Quality Potassium Dihydrogen Phosphate Crystals for Electro-Optic and Non-Linear Applications.  M. A.Gaffar ; S. M El-Hlwany ; U. H Gameel. and <b>A. A. Abu El-Fadl</b>  <b>Bull. Fac. Sci. , Assiut Univ., 9(2), pp. 103-115, (1980).</b></p>
[2]	<p>The Influence of Impurities on Growth and Properties of Potassium Dihydrogen Phosphate Crystals.  M. A.Gaffar ; U. H Gameel ; S. M El-Hlwany and <b>A. A. Abu El-Fadl</b>  <b>Bull. Fac. Sci. , Assiut Univ., 9(2), pp. 117-130, (1980).</b></p>
[3]	<p>Electrical Conduction and High Temperature Phase Transition in Potassium Dihydrogen Phosphate Crystals.  M. A Gaffar. and <b>A. A.Abu El-Fadl</b>  <b>Bull. Fac. Sci. , Assiut Univ., 10(2), pp. 181-200, (1981).</b></p>
[4]	<p>Conductivity in Doped Potassium Dihydrogen Phosphate Crystals.  M. A Gaffar. and <b>A. A.Abu El-Fadl</b>  <b>Bull. Fac. Sci. , Assiut Univ., 12(2), pp. 41-53, (1983).</b></p>
[5]	<p>Growth of Pure and Doped Triglycine Sulphate Single Crystals.  M. A Gaffar. and <b>A. A.Abu El-Fadl</b>  <b>Arab Gulf J. Scient. Res., Math. Phys. Sci., Vol. A5, No.2, pp. 271-282 (1987).</b> Presented in the XIII the Cong. Inter. Union Crystallog., Hamburg F.R.G., C-186 (1984).</p>
[6]	<p>Dielectric Behaviour and Electrical Conduction for Pure and Doped Triglycine Sulphate Single Crystals.  M. A Gaffar. and <b>A. A.Abu El-Fadl</b>  <b>Arab Gulf J. Scient. Res., Math. Phys. Sci., Vol. A5, No.3, pp. 433-453 (1987).</b> Presented in the XIII <u>th</u> Cong. Inter. Union Crystallog., Hamburg F.R.G. , C-186 (1984).</p>
[7]	<p>The Specific Heat of Pure and Doped Triglycine Sulphate Single Crystals.  M. A. Gaffar; , M. M. Mebed and <b>A. Abu El-Fadl</b>  <b>Phys. Stat. Sol. (a) 103, pp. 459-466 (1987).</b></p>
[8]	<p>Thermal Diffusivity of Pure and Doped TGS crystals.  M. A. Gaffar; , M. M. Mebed and <b>A. Abu El-Fadl</b>  <b>Phys. Stat. Sol. (a) 104, pp. 879-884 (1987).</b></p>
[9]	<p>Physical Properties of Triglycine Sulphate Single Crystals Containing different Concentrations of Ni<sup>2+</sup> Ions.  M. A. Gaffar; , and <b>A. Abu El-Fadl</b>  <b>Indian J. of Pure &amp; Applied physics , Vol.26 pp.28- 36 (1988).</b></p>



[10]	D.C Electrical Conductivity of Triglycine Sulfate Single Crystals Doped with Organic Molecules. M. A. Gaffar and <b>A. Abu El-Fadl</b> <b>Bull. Fac. Sci., Assiut Univ. 17(1-A), pp. 95-111 (1988).</b>
[11]	The Structure of Potassium Hydrogen Selenate. <b>A. Abu El-Fadl</b> , G.j. Van Hummel and S. Harkema. <b>Bull. Fac. Sci., Assiut Univ. 17 (1-A) , pp. 155-160 (1988).</b>
[12]	Ferroelectric Behaviour of Triglycine sulfate Crystals Containing Low Concentrations of Metal ions Near the Transition Temperature. M. A. Gaffar, <b>A. Abu El-Fadl</b> and S. A Mansour <b>J. Phys. D: Appli. Phys. 22, pp.327-336 (1989).</b>
[13]	Stereochemical Aspects of the "tert- Amino Effect ". 1. Regioselectivity in the Synthesis of Pyrrolo [1,2-a] Quinolines and Benzo [c] Quinolizines. W. H N. Nijhuis, W. Verboom, <b>A. Abu El-Fadl</b> , S. Harkema and D. N. Reinhoudt. <b>J. Organic Chem.; 54, pp. 199-209, (1989).</b>
[14]	Stereochemical Aspects of the "tert- Amino Effect ". 2. Enantio- and Diastereoselectivity in the Synthesis of Quinolines Pyrrolo [1,2-a] Quinolines and [1,4] Oxazino [4,3-a] Quinolizines. W. H. N. Nijhuis, W. Verboom, <b>A. Abu El-Fadl</b> , G. J. Van Hummel, and D. N. Reinhoudt. <b>J. Organic Chem.; 54, pp. 209-216, (1989).</b>
[15]	Investigation of the Pyroelectric and Piezoelectric Properties of Triglycine Sulphate Crystals Containing Organic Molecules. M. A. Gaffar and <b>A. Abu El-Fadl</b> <b>J. Phys. C: Condens. Matter; 1, pp. 8991-8999, (1989).</b>
[16]	Structure of $\text{LiNH}_4\text{SO}_4$ in the low Temperature Phase . <b>A. Abu El-Fadl</b> <b>Bull. Fac. Sci., Assiut Univ.;18(2-A), pp. 25- 33 (1989).</b>
[17]	Critical Behaviour of Dielectric Permittivity and Spontaneous Polarization of Triglycine Sulfate Single Crystals Doped with Organic Molecules. M. A. Gaffar, G. F. Al-Noaimi and <b>A. Abu El-Fadl</b> <b>J. of the Physical Society of Japan; 58, pp. 3401-3405 (1989).</b>
[18]	Lucidene, a Bis (benzopyranyl) Sesquiterpene from Uvaria Lucida SSP. Lucida. H. Weenen, M .H. H. Nkunya, <b>A. Abu El-Fadl</b> , S. Harkema and B. Zwanenburg. <b>J. Organic Chem.; 55, pp. 5107-5109, (1990).</b>
[19]	Complexation of Alkali Metal Cations by Conformationally Rigid tereoisomeric Calix [4] arene Crown Ethers : A Quantitative Evaluation of Prediganization E. Ghidini, F. Ugozzoli, R. Ungaro, S. Harkema, <b>A. Abu El-Fadl</b> and D. N. Reinhoudt. <b>J. Am. Chem Soc. Vol. 112 pp. 6979-6985 (1990)</b>
[20]	Differential Scanning Calorimetric Study of $\text{Se}_{70}\text{Ge}_{20}\text{Sb}_{10}$ Chalcogenide Glass M. M. Hafez, M. A. Osman, A. S. Abd El-Halim and <b>A. Abu El-Fadl</b> <b>Solid State Commun.; Vol.80 No.3, pp.209-211 (1991).</b>
[21]	New Crown Ether- Like Macrocycles Containing a Nitrophenol Unit. Synthesis and Metal Ion Effects on Reactivity of Their Acetates in Transacylation Reactions D. Kraft, R. Cacciapaglia, V. Bohmer, <b>A. Abu El-Fadl</b> , S. Harkema, L. Mandolini, D. N. Reinhoudt, W. Verboon and W. Vogt <b>J. Organic. Chem.; Vol. 5, pp.826-834 (1992).</b>

[22]	Thermal Properties of Pure and Doped Lithium-Ammonium Sulfate Single Crystals. M.A. Gaffar, Galal A. Mohamed and <b>A. Abu El-Fadl</b> <b>Physica B; 205, pp.224-230(1995).</b>
[23]	Mechanisms for Growing Pure and Doped Ammonium Dihydrogen Phosphate Single Crystals. M.A. Gaffar, Galal A. Mohamed, <b>A. Abu El-Fadl</b> and S. Abd El-Wahab. <b>Bull. Fac. Sci., Assiut Univ.; 24(1-A), pp.11-19 (1995).</b>
[24]	Investigation of the High Temperature Phase Transition for Pure and Doped Ammonium Dihydrogen Phosphate Single Crystals. M.A. Gaffar, <b>A. Abu El-Fadl</b> , Galal A. Mohamed and S. Abd El-Wahab. <b>Bull. Fac. Sci., Assiut Univ.; 24(1-A), pp.21-32 (1995).</b>
[25]	Growth and Optical Properties of Betaine Calcium Chloride Dihydrate Single Crystals. <b>A. Abu El-Fadl</b> , Galal A. Mohamed, A. S.Soltan and A. A. Othman <b>Bull. Fac. Sci., Assiut Univ.; 24(1-A), pp. 173-188 (1995).</b>
[26]	Electrical Resistivity of Single Crystals Lithium Ammonium Sulphate Between 300 and 500 K. M. A. Gaffar and <b>A. Abu El-Fadl</b> <b>J. Materials Science; 30, pp.6205-6208 (1995).</b>
[27]	Specific Heat and Electrical Resistivity of Pure and Doped Lithium-Ammonium Sulphate Single Crystals M.A. Gaffar and <b>A. Abu El-Fadl</b> , Galal A. Mohamed <b>Physica B; 217, pp.274-284 (1996).</b>
[28]	Electrical and Optical Investigations of $Rb_2ZnCl_4$ Crystals in the Vicinity of the Incommensurate Phase <b>A. Abu El-Fadl</b> <b>Eur. Phys. J. AP; 4, pp.5-9 (1998).</b>
[29]	DC Electrical Properties of New Unsaturated Polyesters of Diarylidene cyclohexanone A.A. Othman, <b>A. Abu El-Fadl</b> and K.I. Aly <b>Egyptian Journal of Solids; 21, pp. 229-239 (1998)</b>
[30]	Electric, Dielectric and Optical Studies of the Lower Phase Transition of Lithium Ammonium Sulphate Single Crystal M. A. Gaffar and <b>A. Abu El-Fadl</b> <b>Physica B; 229, pp.159-169 (1999).</b>
[31]	Effect of Doping and Irradiation on Optical Parameters of Triglycine Sulphate Single Crystals M. A. Gaffar and <b>A. Abu El-Fadl</b> <b>Crystal Research &amp; Technology; 34, ) pp. 915-923 (1999).</b>
[32]	Temperature Dependence of the Absorption Spectra and Optical Parameters in TGS and $Cu^{2+}$ -Doped TGS Crystals <b>A. Abu El-Fadl</b> <b>Crystal Research &amp; Technology; 34, pp. 1047-1054 (1999).</b>
[33]	Optical Properties of TGS Crystals Doped with Metal Ions in the Vicinity of Phase Transition <b>A. Abu El-Fadl</b> <b>Physica B; 269, pp. 60-68 (1999).</b>

[34]	Effect of doping and irradiation on optical parameters of triglycine sulphate single crystals MA Gaffar and A Abu El-Fadl <b>Crystal Research and Technology, 34 (1999) 915-923.</b>
[35]	Electrical Conductivity and Pyroelectricity of Lithium Potassium Sulphate Single Crystals in the Temperature Range 300-950 K A. Abu El-Fadl , M. A. Gaffar and M. H. Omar <b>Physica B; 269, pp.395-402 (1999).</b>
[36]	Absorption Spectra and Optical Parameters of Lithium-Potassium Sulphate Single Crystals A. Abu El-Fadl , M. A. Gaffar and M. H. Omar <b>Physica B; 269, pp.403-408 (1999).</b>
[37]	Temperature Dependence of the Optical Band Gap of Nearly Perfect $K_2ZnCl_4$ Single Crystals in the Ferroelectric Phase A.El-Korashy and A. Abu El-Fadl <b>Physica B; 271, pp.205-211 (1999).</b>
[38]	Electrical Properties of $K_2ZnCl_4$ Crystals Pure and Doped with $Co^{2+}$ Ions Between 300 and 500 K A. Abu El-Fadl <b>Eur. Phys. J. AP; 6, pp. 257-262 (1999).</b>
[39]	Structural, Electrical, Dielectric and Optical Investigations of Lithium Iodate Single Crystals M. A. Gaffar and A. Abu El-Fadl <b>J. of the Physics and Chemistry of Solids; 60, pp. 1633-1643 (1999).</b>
[40]	Effect of Divalent Ions Doping on the Absorption Spectra and Optical Parameters of TGS Crystals A. Abu El-Fadl <b>J. of the Physics and Chemistry of Solids; 60, pp. 1881-1893 (1999).</b>
[41]	Indirect Band Gap and Optical Parameters of Pure and Doped Potassium Ferrocyanide Single Crystals M. A. Gaffar and A. Abu El-Fadl <b>Physica B; 292, pp.221-232 (2000).</b>
[42]	Effect of Gamma Irradiation and Heat Treatment on the Optical Properties of $SbNbO_4$ Ferroelectric Thin Films G.A. Mohamad, A. Abu El-Fadl and T. Yamazaki <b>J. Radiation effects &amp; Defects in Solids, 154(2001)165-178.</b>
[43]	Optical Studies of $K_2ZnCl_4$ Single Crystals Doped with $Cs^{2+}$ Ions in the Ferroelectric Phase A. El-Korashy, A. Abu El-Fadl and H. El-Zahid <b>Physica B:Condensed Matter, 304 (2001) 437.</b>
[44]	Optical properties and surface morphology of Li-doped ZnO thin films deposited on different substrates by d c magnetron sputtering method Galal A. Mohamed, El-Maghraby Mohamed and A. Abu EL-Fadl <b>Physica B: Condensed Matter, 949 (2001) 308-310.</b>
[45]	Electrical Investigations in the Normal and Incommensurate Phases of $[N(CH_3)_4]_2ZnCl_4$ Single Crystals A. Abu El-Fadl, A. El-Korashy and H. El-Zahid <b>J. of the Physics and Chemistry of Solids; 63, pp. 375-381 (2002).</b>

[46]	Variation of the Absorption Spectra and Optical Energy Gap with $\gamma$ -Ray Irradiation and Heat Treatment in $\text{SbNbO}_4$ Films Deposited on MgO and Quartz Substrates A. Abu El-Fadl, Galal A. Mohamad and Toshinari Yamazaki <b>J. Materials Chemistry and Physics, 80(2003) 239-249</b>
[47]	Influence of strontium doping on the indirect band gap and optical constants of ammonium zinc chlorite crystals M. A. Gaffar, A. Abu El-Fadl and S. Bin Anooz <b>Physica B : Condensed Matter, 327 (2003) 43-54.</b>
[48]	Electron Irradiation- Induced Effects on Optical Spectra of $(\text{NH}_4)_2\text{ZnCl}_4$ : $\text{Sr}^{2+}$ Single Crystals M. A. Gaffar, A. Abu El-Fadl and S. Bin Anooz <b>Crystal Research &amp; Technology; Volume 38 Issue 1, (2003) 83-93.</b>
[49]	Gamma-Irradiation Induced Effect On Some Of The Optical Parameters Of KTZC Pure Crystals A. Abu El-Fadl,, M. A. Hefni and H. A. Khater <b>6th Radiation Physics Conference, Assiut University, Assiut, Egypt. Published in Arab Journal of Nuclear Sciences and Applications. Volume, 36, June (2003) PP. 707-713.</b>
[50]	Changes in the Optical Parameters of Potassium Tetrachlorozincate (KTZC) Single Crystals Under Doping and Irradiation Conditions A. Abu El-Fadl,, M. A. Hefni and H. A. Khater <b>6th Radiation Physics Conference, Assiut University, Assiut, Egypt. Published in Arab Journal of Nuclear Sciences and Applications. Volume 36, PP. 851-859 , June 2003.</b>
[51]	Doping of irradiation Effects on the Optical Band Gap of Doped Ammonium Tetrachlorozincate (ATZC) Single Crystals A. Abu El-Fadl, G. A. Mohamad and M. Abd El-Sttar <b>6th Radiation Physics Conference, Assiut University, Assiut, Egypt. Published in Arab Journal of Nuclear Sciences and Applications. Volume 36, June 2003.</b>
[52]	An Investigation on the Effect of $\gamma$ -irradiation on the Optical Absorption Spectra in Cu(II) Doped Ammonium Tetrachlorozincate (ATZC) Single Crystals A. Abu El-Fadl, G. A. Mohamad and M. Abd El-Sttar <b>6th Radiation Physics Conference, Assiut University, Assiut, Egypt. Published in Arab Journal of Nuclear Sciences and Applications. Volume 36, June 2003.</b>
[53]	Optical absorption spectra and related parameters of ammonium zinc chloride crystal in the antiferroelectric and commensurate phases M. A. Gaffar, A. Abu El-Fadl and S. Bin Anooz <b>Crystal Research &amp; Technology; 38, No.9 (2003) 798-810.</b>

[54]	Effects induced by $\gamma$ -irradiation on intraband transitions in $\text{Sr}^{2+}$ -doped ammonium zinc chloride crystals. M. A. Gaffar, <b>A. Abu El-Fadl</b> and S. Bin Anooz <b>Radiation effects &amp; Defects in Solids, Volume 158, Issue 11 &amp; 12 November 2003 , pages 743 – 755</b>
[55]	Temperature dependence of the indirect band gap and related optical parameters of $(\text{NH}_4)_2\text{ZnCl}_4:\text{xSr}^{2+}$ single crystals M. A. Gaffar, <b>A. Abu El-Fadl</b> and S. Bin Anooz <b>Physica Status Solidi, Volume 240, Issue 1 , (2003) 246 – 254.</b>
[56]	$\gamma$ - Irradiation Effects on the thermal decomposition behaviour and IR absorption spectra of piperacillin M. A. Gaffar, <b>A. Abu El-Fadl</b> and Abdel-reda G. K. Hamad <b>Radiation effects &amp; Defects in Solids, 158 (2003) 827-832.</b>
[57]	Influence of gamma radiation on the absorption spectra and optical energy gap of Li-doped ZnO thin films <b>A. Abu EL-Fadl</b> , E. M. El-Maghraby and G. A. Mohamed <b>Cryst. Res. Technol., Volume 39, Issue 2, (2004) 143-150.</b>
[58]	$\text{Mn}^{2+}$ Doping- Effects on Commensuration and Incommensuration of Ammonium Zinc Chloride Crystal M. A. Gaffar, A. M. Abousehly, <b>A. Abu El-Fadl</b> and S. Bin Annoz <b>Ferroelectrics, 313 (2004) 113-128</b>
[59]	Doping and Irradiation Effects on the indirect Band Gap and Optical Parameters of Potassium Tetrachlorozincate Single Crystals M. A. Gaffar, <b>A. Abu El-Fadl</b> , A. M. Abousehly and M. M. Mostafa <b>Radiation effects &amp; Defects in Solids, Volume 159, Issue 1 January 2004 , pp. 25 – 35</b>
[60]	Mechanism of the dc conduction in undoped and $\text{Sr}^{2+}$ doped ammonium zinc chloride crystal M. A. Gaffar, <b>A. Abu El-Fadl</b> and S. Bin Anooz <b>Solid State Communications, Issue 129(12) (2004) 797-802</b>
[61]	The non-isotropic character of electric and dielectric properties of ammonium zinc chloride crystal M. A. Gaffar, <b>A. Abu El-Fadl</b> and S. Bin Anooz <b>Journal of Physics and Chemistry of Solids, 65 (2004) 957–964</b>
[62]	$\text{Mn}^{2+}$ Doping-Induced-Effects on Commensuration and Incommensuration of Potassium Zinc Chloride Crystals M. A. Gaffar, A. M. Abousehly, <b>A. Abu El-Fadl</b> and M. M. Mostafa <b>Phase Transitions Journal, Volume 78, Issue 4 April 2005 , pages 295 – 315</b>
[63]	The non-isotropic character of electric and dielectric properties of ammonium zinc chloride crystal M.A. Gaffar, <b>A. Abu El-Fadl</b> and S. Bin Anooz <b>Journal of Physics and Chemistry of Solids, 65 (2004) 957–964.</b>
[64]	Growth and characterization of undoped, $\text{Sr}^{2+}$ -, and $\text{Mn}^{2+}$ -doped ammonium tetrachlorozincate M. A. Gaffar, <b>A. Abu El-Fadl</b> , and S. Bin Anooz <b>Cryst. Res. Technol. 39, 204 (2004).</b>

[65]	Influence of Sr <sup>2+</sup> Doping , Temperature and Frequency on Dielectric Constant, Dielectric Loss Factor and AC Conductivity of Ammonium Zinc Chloride Crystal M.A. Gaffar, <b>A. Abu El-Fadl</b> and S. Bin Anooz <b>Japanese Journal of Applied Physics, Vol. 44 No. 4A (2005) 1883–1891.</b>
[66]	Optical constants of Zn <sub>1-x</sub> Li <sub>x</sub> O films prepared by chemical bath deposition technique <b>A. Abu EL-Fadl</b> , Galal A. Mohamad, A. B. Abd El-Moiz, and M. Rashad <b>Physica B, 366 (2005) 44-54.</b>
[67]	Bulk and Electrode-Limited Conduction Mechanisms in Different Phases of Mn <sup>2+</sup> - Doped Potassium Tetrachlorozincate Crystal M. A. Gaffar, A. M. Abousehly, <b>A. Abu El-Fadl</b> and M. M. Mostafa <b>J. Phys. D:Appl. Phys. 38(2005) 577-583</b>
[68]	Optical Properties of Pure and Metal Ions Doped Ammonium Sulfate Single Crystals <b>A. Abu El-Fadl and Saud Bin Anooz</b> <b>Cryst. Res. Technol. 41, No. 5, 487 – 493 (2006)</b>
[69]	Influence of cationic substitution on lattice constants and optical characterization in solution grown mixed crystals of potassium-ammonium zinc chloride <b>A. Abu El-Fadl</b> , A. S. Soltan, and N. M. Shaalan <b>Cryst. Res. Technol. 41, No. 10, 1013 – 1019 (2006)</b>
[70]	Influence of $\gamma$ -radiation on the optical parameters of Ag <sub>10</sub> Te <sub>90</sub> thin .films <b>A. Abu EL-Fadl</b> , M.M. Hafiz, M.M. Wakaad, A.S. Aashour <b>Radiation Physics and Chemistry, 76 (2006) 61-66</b>
[71]	Annealing effects on the optical parameters of Cu <sub>10</sub> Se <sub>90</sub> and Cu <sub>20</sub> Se <sub>80</sub> films deposited by evaporation technique <b>A. Abu EL-Fadl</b> , M.M. Hafiz, M.M. Wakaad, A.S. Aashour <b>Physica B, 366 (2006) 44-54.</b>
[72]	Effects induced by chemical non-stoichiometry and $\gamma$ -irradiation on the habit and unit cell parameters of ammonium tetrachlorozincate M. A. Gaffar, <b>A. Abu El-Fadl</b> , and S. Bin Anooz <b>Cryst. Res. Technol. 41, No.4(2006) 379-387</b>
[73]	Dielectric constant, loss factor and ac conductivity of Ni <sup>2+</sup> -doped K <sub>2</sub> ZnCl <sub>4</sub> crystals in the ferroelectric-commensurate, incommensurate and normal phases M. A. Gaffar, A. M. Abousehly, <b>A. Abu El-Fadl</b> , and M. M. Mostafa <b>Cryst. Res. Technol. 41, (2006) 1120-1130</b>
[74]	X-ray Radiation-Induced Effects on Ferroelectric Triglycine Sulfate Crystals Doped with Phosphoric Acid <b>A .Abu El-Fadel</b> , A. M. Abousehly, and A.S.Ahmed <b>8<sup>th</sup> Radiation Physics Conference, 13-15 November 2006, Beni Suef University, Beni Suef, Egypt. Published in Arab Journal of Nuclear Sciences and Applications pp. 479-491.</b>
[75]	Radiation-Induced Effects on the Optical Band Gap of TGSP Single Crystals <b>A. Abu El-Fadel</b> , A. M. Abousehly, and A.S.Ahmed <b>8<sup>th</sup> Radiation Physics Conference,13-15 November 2006, Beni Suef University, Beni Suef, Egypt. Published in Arab Journal of Nuclear Sciences and Applications, pp. 495-468.</b>

[76]	<p><math>\gamma</math> – Irradiation induced effect on the optical parameters of Cu<sub>10</sub>Se<sub>90</sub> thin films</p> <p><b>A. Abu EL-Fadl, M.M. Hafiz, M.M. Wakaad, A.S. Aashour</b>  <b>8<sup>th</sup> Radiation Physics Conference, 13-15 November 2006 Beni Suef University, Beni Suef, Egypt. Published in Arab Journal of Nuclear Sciences and Applications, pp. 281-296</b></p>
[77]	<p>Influence of X-irradiation on indentation size effect and formation of cracks for [K<sub>y</sub>(NH<sub>4</sub>)<sub>1-y</sub>]<sub>2</sub>ZnCl<sub>4</sub> mixed crystals</p> <p><b>A. Abu El-Fadl, A. S. Soltan, and N. M. Shaalan</b>  <b>Cryst. Res. Technol. 42, No. 4, 364 – 377 (2007)</b></p>
[78]	<p>Temperature dependence of the indirect band gap, steepness parameter and related optical constants of [K<sub>x</sub>(NH<sub>4</sub>)<sub>1-x</sub>]<sub>2</sub>ZnCl<sub>4</sub> mixed crystals</p> <p><b>A. Abu El-Fadl, A.S. Soltan and N.M. Shaalan</b>  <b>Optics &amp; Laser Technology, Volume 39, Issue 7, October 2007, Pages 1310-1318</b></p>
[79]	<p>Effect of gamma doses on the optical parametrs of Se<sub>76</sub>Te<sub>15</sub>Sb<sub>9</sub> thin films</p> <p><b>A. Abu EL-Fadl, A.S. Soltan and A.A. Abu-Sehly</b>  <b>Journal of Physics and Chemistry of Solids, Volume 68, Issue 7, July 2007, Pages 1415-1421</b></p>
[80]	<p>Doping-induced-effects on conduction mechanisms in incommensurate ammonium zinc chloride crystals</p> <p><b>M. A. Gaffar, A. Abu El-Fadl, and S. Bin Anooz</b>  <b>Cryst. Res. Technol. 42, 569 (2007)</b></p>
[81]	<p>Calorimetric studies of the crystallization process in Cu<sub>10</sub>Se<sub>90</sub> and Cu<sub>20</sub>Se<sub>80</sub> chalcogenide glasses</p> <p><b>A. Abu EL-Fadl, M.M. Hafiz, M.M. Wakaad and A.S. Aashour</b>  <b>Physica B: Condensed Matter, Volume 398, Issue 1, 1 August 2007, Pages 118-125</b></p>
[82]	<p>Influence of <math>\gamma</math>-irradiation on the optical parameters of Ag<sub>10</sub>Te<sub>90</sub> thin films</p> <p><b>A. Abu EL-Fadl, M.M. Hafiz, M.M. Wakaad and A.S. Aashour</b>  <b>Radiation Physics and Chemistry, 76(1)- (2007) 61-66</b></p>
[83]	<p>Mechanical characteristics of solution grown potassium zinc chloride crystals doped with lithium ions</p> <p><b>A. Abu El-Fadl, A.S. Soltan, M. A. Hefni and N.M. Shaalan</b>  <b>Current Applied Physics, Volume 8, Issue 2, March 2008, Pages 167-176</b></p>
[84]	<p>Effect of X-ray Irradiation on Indentation Size Effect Behavior and Formation of Cracks for Potassium Zinc Chloride Crystals Doped with Lithium Ions</p> <p><b>A. Abu El-Fadl, A.S. Soltan, M. A. Hefni and N.M. Shaalan</b>  The Egyptian Society of Nuclear Sciences and Applications (ESNSA) (Egypt); 1239 p; 2008; 16 p; 9. International Conference for Nuclear Sciences and Applications; Sharm Al Sheikh (Egypt); 11-14 Feb 2008, Volume 39, Issue 49; p. 1239, Presented in <b>Topics by WorldWideScience.org, No. 25</b> (EG0800261) , International Nuclear Information System (INIS).</p>
[85]	<p>Optical investigation on the existence of phase transition in ZnO:Li thin films prepared by DC sputtering method</p> <p><b>A. Abu El-Fadl, E. M. El-Maghraby and T. Yamazaki.</b>  <b>Cryst. Res. Technol. 43, No. 3, 302 – 307 (2008)</b></p>
[86]	<p>Temperature dependence of the optical parameters for potassium zinc chloride crystals doped with lithium ions</p> <p><b>A. Abu El-Fadl, A.S. Soltan, M.A. Hefni and N.M. Shaalan</b>  <b>Optical Materials, Volume 30, Issue 10, June 2008, Pages 1576-1582</b></p>

[87]	Electrical Conductivity and Crystallization Kinetics of Amorphous Ag <sub>10</sub> Te <sub>90</sub> and Ag <sub>20</sub> Te <sub>80</sub> Thin Films A. Abu El-Fadl, M.M. Hafiz, M.M. Wakkad and A.S. Aashour <i>Solid State Sciences, Volume 10, Issue 10, October 2008, Pages 1416-1421</i>
[88]	The effect of cobalt-doping on some of the optical properties of glycine zinc sulfate (GZS) single crystal A. Abu EL-Fadl and A.M. Abdulwahab <b>Physica B: Condensed Matter, Volume 405, Issue 16, 15 August 2010, Pages 3421-3426</b>
[90]	Thermal Analysis of Li[K <sub>x</sub> (NH <sub>4</sub> ) <sub>1-x</sub> ]SO <sub>4</sub> Mixed Crystals A. Abu EL-Fadl and A.M. Abdulwahab <b>Chinese Journal of Physics, Vol .51, No.1, February 2013</b>
[91]	Crystal Growth and Physical Properties of KDP Admixture TGS Single Crystals A. Abu El-Fadl and A. M. Nashaat <b>Archives of Physics Research, 2014, 5 (6):19-28</b>
[92]	Optical Characterization of (TMA) <sub>2</sub> ZnCl <sub>4</sub> Single Crystals in the Normal Phase A. Abu El-Fadl, M. Almokhtar, A. M. Nashaat <b>Open Journal of Applied Sciences, 2015, 5, 169-181</b>
<b>III: Papers Published in National and International Conferences</b>	
[1]	<b>Photo-induced absorption change in thermally evaporated Arsenic Selenides films.</b> A. H. Moharram, A. Abu El-Fadl, M. Rashad Japan-China-Asturalia Cooperative Symposium on Material Science and Nanotechnology, Faculty of Engineering, university of Toyama, <b>Japan</b> 14-17th Nov. 2007 has presented on <b>Oral</b> presentation.
[2]	<b>Photo-induced absorption change in thermally evaporated Arsenic Selenides films</b> A. H. Moharram, A. Abu El-Fadl, M. Rashad The First Conference of Young Scientists Basic Science & Technology (Assiut University, Egypt 5-6 May 2007), 2007.
[3]	<b>The Role of Computed Tomographic Angiography (CTA) in Diagnosis of Femoral Artery Diseases Compared to Digital Subtraction Angiography (DSA)</b> Abdulaziz Abualfadl, Mahmoud Gomaa, Nouraldin Alhag Mukhtar, Ali Mahzari, Khalid Khwaji 3 <sup>ed</sup> Student Conference Jazan University, Saudi Arabia, March 2012.
[4]	<b>Effect of X-ray radiation doses on some amino acids single crystals</b> A. Abu El-Fadl and Khaled Muhammad Moafa, 2 <sup>ed</sup> Student Conference Jazan University, Saudi Arabia, February 2011.
[5]	<b>Gamma radiation effects on the optical parameters of ZnO thin films doped with Li</b> A. Abu EL-Fadl, E. M. El-Maghraby and G. A. Mohamed Fourth International Conference on "Control Of Semiconductor Interfaces At The Karuizwa, 21-25 October 2002, Japan.
[6]	<b>Optical Properties and Surface Morphology of Li-doped ZnO Thin Films Deposited on Different substrates</b>



	Galal A. Mohamed El-Maghraby Mohamed and <b>A. Abu EL-Fadl</b> <b>Int. Conf. On Defects in Semiconductors, 16-20 July 2001 Giessen, Germany</b>
[7]	<b>Preparation and Optical investigations of Some Ferroelectric Crystals used for Technological Applications</b> <b>A. Abu El-Fadl</b> Workshop in Physics (Advanced materials), Tishreen University, 10-21 November 2000, Latakia, Syria.
[8]	<b>Optical Properties of SbNbO<sub>4</sub> Ferroelectric Thin Films under the Effect of Gamma Irradiation and Heat Treatment</b> G.A. Mohamad, <b>A. Abu El-Fadl</b> and T. Yamazaki 5 <sup>th</sup> Radiation Physics Conference, Atomic Energy Authority, Cairo, Egypt. Published in Arab Journal of Nuclear Sciences and Applications. Volume , June 2000.
[9]	<b>Anomalous behaviour in the Electrical and optical properties of Ammonium Sulfate single crystals at the high temperature phase transition.</b> <b>A. Abu El-Fadl</b> and Galal A. Mohamed 21 <sup>th</sup> Solid State Conference, 23-26 November 1999, Mansoura university- Mansoura- Egypt.
[10]	Optical investigations on DLP Single Crystals <b>A. Abu El-Fadl</b> 19 <sup>th</sup> Solid State Conference, 13-17 March 1996, Suez Canal University- Ismaillia – Egypt.
[11]	<b>Electrical Properties of Pure and Doped ADP single Crystals</b> <b>A. Abu El-Fadl</b> and M. A. Gaffar 18 <sup>th</sup> Solid State Conference, 22-26 January 1995, Suez Canal University, Suez Canal- Egypt.
[12]	<b>Some Physical Properties of TGS Crystals doped with organic molecules</b> <b>A. Abu El-Fadl</b> The 10 <sup>th</sup> Conference on Solid State Science, 6-9th April 1987, Alexandria-Egypt.
[13]	<b>Thermal Properties of TGS crystals</b> <b>A. Abu El-Fadl</b> 1 <sup>st</sup> International Conference on Condensed Matter, 27-31 October 1986-Jordan University, Amman, Jordan.
[14]	<b>Growth of pure and metal ions doped TGS crystals.</b> <b>A. Abu El-Fadl</b> , M. A. Gaffar and M. H. Omar The XIII Cong. Inter. Union Crystallog, Hamburg F.R.G., C-186 (1984).