

C.V.

Name : Alaa Ahmed Saad Akl **Nationality:** Egyptian
Perth Day: 9-11-1960 **Religion:** Muslim
Marital Status: Married and reliable



Scientific Grade:

- 1-BSc. of Physics May 1982, Faculty of Science
- 2-MSc. of Solid State Physics June 1988, Physics Dept. Faculty of Science
- 3-Ph.D. of Solid State Physics June 1997, Physics Dept. Faculty of Science

Granting University: El-Minia University

Major Specialization: Solid State Physics

Specific Specialization: Experimental of Solid State Physics

Experience:

- 1-Doctoral of solid state physics from 22/12/1998 to 24/9/2006
- 2-Associated professor of Experimental of Solid State Physics from 25/9/2006 to 18/11/2013 in Faculty of Science -Physics Department – El-Minia University.
- 3-Professor of Experimental of Solid State Physics 19/11/2013 Until now, in Faculty of Science -Physics Department – El-Minia University.
- 4-Director of central laboratory for physio-chemical analysis in El-Minia University from 6/7/1997 to 26/8/2003.
- 5- I have good experience in the supervision of Masters and PhDs
- 6- I have good experience in the interpretation and the surface morphology reading of images by scanning electron microscope (SEM) and transmission electron microscope (TEM).
- 7- I have good experience in choosing the best and better research instrumentation that serves different specialties and that order to establish central laboratories.
- 8-I'm a member in the project of Electrochromic application research for cars refer to Academic Scientific Research in Egypt from 2003 to 2005
- 9- I 'be an experience of crystal study of solid state physics such as qualitative and quantitative analysis of inorganic and organic materials by using X-ray diffraction analysis from 1984 to now.
- 10-I've published **60** papers in an international journal, eight of them were single author in the field material characteristics, solar cells and its application in Electrochromic behavior..
- 11-Member of the National Society for Crystallography since from Feb 2014 until now.
- 12-I'm a referee of Journal Applied Surface Science and Journal of Chemistry and Physics.
- 13-I'm a member of Egyptian Society of Solid State Physics from 1984 to NOW
- 14-I'm referring to more papers for multi International Journals.

Information of the website Scopus

Prof. Dr. Alaa Ahmed Saad Akl

El-Minia University, Faculty of Science

Physics Department

Alaa A. Akl obtained a B.S. Degree in physics from the Faculty of Science, Minia University, May, 1982, an M.S. Degree of solid state physics from the Physics Department, Faculty of Science, Minia University, June, 1988, and a Ph.D. degree of solid state physics from the Physics Department, Faculty of Science, Minia University, June, 1997. Akl's major specialization is in solid state physics and specific specialization in materials science in the form of thin films and surface science. Akl was a Doctoral of solid state physics from 22/12/1998 to 24/9/2006, has been an Associated professor of solid state physics since 25/9/2006 at the Physics Department, Faculty of Science, Minia University, and was the Director of the Central Laboratory for Microphysio-Chemical Analysis in Minia University from 6/7/1997 to 26/8/2003. Akl's area of interest is growth and characterization (nanostructure, optical, and electrical properties) of metal oxide thin films for thin film device applications such as Electrochromic properties and smart windows. Akl trained to grow metal transition oxide thin films (Fe_2O_3 , NiO_2 , WO_3 , V_2O_5 , TiO_2 , IrO_2 and chalcogenit materials as a thin film form) using spray pyrolysis, thermal evaporation, and sputtering (RF) techniques. In parallel, Akl learned to characterize, analyzing, and interpret the obtained results from XRD, SEM, AFM, and UV-VIS-NIR spectrophotometer and optical dispersion analysis of metal transition oxides and other thin films.

Personal knowledge of Prof. Dr. Alaa Ahmed Saad Akl

I obtained my PhD. in experimental solid state physics and I worked as a teacher from 22/12/1998 to 24/9/2006 and then I got the degree of associate professor of experimental of solid state physics since 25/9/2006 to 18/11/2013 at the Physics Department, Faculty of Science, Minia University. Since 19/11/2013 I have worked as a professor in experimental solid state physics at the Department of Physics, Faculty of Science, Minia University until now.

Practical experiences

- 1- I have experience in preparing thin films in different ways such as thermal evaporation, sputtering and chemical spray pyrolysis
- 2- I have experience in studying the surface morphology, crystallography, crystal defects, microstructure, optical and electrical properties of alloys and thin films
- 3- I have long experience in crystalline materials using XRD and I have experience in the qualitative and quantitative analysis of inorganic compounds
- 4- I worked as Director of the Central Laboratory for Microphysio-Chemical Analysis in Minia University from 6/7/1997 to 26/8/2003. I also managed the Applied Scientific Research Unit, Faculty of Science, Minia University, from 12/10/2012 until 22/9/2014

Research Interest

My major specialization is in Experimental of solid-state physics and specific specialization in materials science in the form of thin films, alloys and surface morphology. My research interests also in the growth and characterization (crystallography, nanostructure, optical, and electrical properties) of metal oxide thin films for thin film device applications such as Electrochromic properties and smart windows. I was trained to grow metal transition oxide thin films (Fe_2O_3 , NiO_2 , WO_3 , V_2O_5 , TiO_2 , IrO_2 and ternary composite (Chalcogeniet) materials as a thin film form and bulk forms) using spray pyrolysis, thermal evaporation, and sputtering (RF) techniques. In parallel, I was experience to characterize, analyzing, and interpret the obtained results from XRD, SEM, AFM, FTIR and UV-VIS-NIR spectrophotometer and optical dispersion analysis of metal transition oxides and other thin films.

This link is in my google scholar:

<https://scholar.google.com/citations?user=aXJ7hjMAAAAJ&hl=en>

List of publications for Dr . Alaa Ahmed Saad Akl

- 1- **Title:** "*Study of source errors of x-ray diffraction profile analysis*"
Authors: [A.A.S. Akl](#), and A. A.Ramadan
Journal: *Solid State Sciences*, vol. 14, no. 2, (1994) 221–226.
- 2- **Title:** "*Carrier transport mechanisms of a-GaAs/n-Si heterojunctions*"
Authors: N.I.Aly, [A.A.Akl](#), A.A.Ibrahim and A.S.Riad
Journal: *Egypt. J. Sol.*, Volume 24, No.(2) (2001) 245-254.
- 3- **Title :** "*Structural study of flash evaporation CuInSe₂ thin films*"
Authors : [A.A.Akl](#), A.Ashour, A.A.Ramadan and K.Abd El -Hady
Journal : *Vacuum*, Volume 61, (2001) 75-84.
- 4- **Title:** "*Opto-structural, electrical and electrochromic properties of crystalline nickel oxide thin films prepared by spray pyrolysis*"
Authors: S. A. Mahmoud, [A. A. Akl](#), H. Kamal and K. Abdel-Hady
Journal: *PHYSICA B: Condensed Matter*, Volume 311,issue (3-4)(2002) 366-375.
- 5- **Title :** "*Characterization of tungsten oxide films of different crystallinity prepared by RF sputtering*"
Authors: [A.A.Akl](#), H.Kamal and K.Abdel-Hady
Journal : *PHYSICA B: Condensed Matter*, Volume 325 (2003) 65-75
- 6- **Title :** "*Influence of proton insertion on the conductivity, structural and optical properties of amorphous and crystalline electrochromic WO₃ films*"
Authors: H.Kamal, [A.A.Akl](#) and K.Abdel-Hady
Journal : *PHYSICA B: Condensed Matter*, Volume 349 (2004)192-205
- 7- **Title :** "*Study of polycrystalline CuInSe₂ thin film formation*"
Authors: A. Ashour, [A. A. S. Akl](#), A. A. Ramadan and K. Abd EL-Hady
Journal : *Thin Solid Films*, Volume 467 (2004) 300-307
- 8- **Title:** "*Microstructure and electrical properties of iron oxide thin films deposited by spray pyrolysis*"
Authors : [Alaa A. Akl](#)
Journal : *Applied Surface Science*, Volume 221 (2004) 319-329.
- 9-**Title:** "*Optical properties of crystalline and non-crystalline iron oxide thin films deposited by spray pyrolysis*"
Authors: [Alaa A. Akl](#)
Journal : *Applied Surface Science*, Volume 233 (2004) 307-319.
- 10-**Title:** *Electrical properties of stacked CuInSe₂ thin films*

Authors: A. Ashour, [A.A. Akl](#), A.A. Ramadan, K. Abd El-Hady
Journal: *J. Materials Science: Materials in Electronics*; Vol.(16); issue 9 (2005)599-603

11-Title: "PREPARATION AND CHARACTERIZATION OF THE JUNCTION n - CuInSe_2/p - CdTe SOLAR CELL BY THE STACKED ELEMENTAL LAYER (SEL) TECHNIQUE"

Authors: A. Ashour , A. A.Ramadan , K. Abd EL-Hady, [A. A. S. Akl](#)
Journal: *J. Optoelectronics and Advanced Materials* Vol.7, No.3(2005)1493 -1498

12-Title: " Effect of solution molarity on the characteristics of vanadium pentoxide thin film"

Authors : [Alaa A. Akl](#)

Journal: *Applied Surface Science*, Volume 252 (2006) 8745-8750

13- Title : "Fabrication and characterization of sputtered titanium dioxide"

Authors : [A.A.Akl](#), H.Kamal and K.Abdel-Hady

Journal : *Applied Surface Science: Volume 252 (2006) 8651-8656.*

14-Title: " Optical manipulation of temperature formation of CuInSe_2 thin films"

Authors : A.Ashour, [A.A.Akl](#), A.A.Ramadan, N.A.El-Kadry and K.Abd El-Hady

Journal : *Materials Science and Engineering : B*, Volume 134 (2006) 63-67.

15-Title: "Crystallization and electrical of V_2O_5 thin films prepared by RF sputtering"

Authors : [Alaa A. Akl](#)

Journal : *Applied Surface Science*; Volume 253, (2007) 7094-7099.

16-Title: "Growth, microstructure, optical and electrical properties of sprayed CuInSe_2 polycrystalline films "

Authors : [Alaa A. Akl](#) and H.H.Afify

Journal : *Bulletin Materials Research*, Volume 43 (2008) 1539–1548

17-Title: " Effect of some preparative parameters on optical properties of spray deposited iridium oxide thin films"

Authors : S.A. Mahmoud, [A.A. Akl](#) and S.M. Al-Shomar

Journal : *PHYSICA B: Condensed Matter*, Volume 404 (2009) 2151–2158.

18-Title: " Nanocrystalline formation and optical properties of germanium thin films prepared by physical vapor deposition "

Authors : [A. A. Akl](#) and H. Howari

Journal : *J. Physics and Chemistry of Solids*, Volume 70 (2009) 1337–1343

19-Title: " Thermal annealing effect on the crystallization and optical dispersion of sprayed V_2O_5 thin films"

Authors : [Alaa A. Akl](#)

Journal : *J. Physics and Chemistry of Solids*, Volume 71 (2010) 223–229.

20-Title: "Electrical Characteristics and Nanocrystalline Formation of Sprayed Iridium Oxide Thin Films"

Authors : S. A.Mahmoud, S. M. Al-Shomar and [A. A. Akl](#)

Journal : Hindawi Publ. Corporation, *Adv. Cond. Matter Physics*, Volume 2010

21- Title: "Influence of preparation conditions on the dispersion parameters of sprayed iron oxide thin films"

Authors : [Alaa A. Akl](#)

Journal : *Applied Surface Science*, Volume 256 (2010) 7496–7503.

22-Title: "Electrochromic properties and energy gap dependent on preparative condition of sprayed iridium oxide thin films".

Authors : [Alaa A. Akl](#)

Journal : *Bul.of the Cat. Soc. of Ind.*, Volume 10, iss. (3-4) (2011)50-60.

23-Title: "Nanostructure, optical and electrical properties of thermally evaporated $CdS_{0.1}Se_{0.9}$ thin films with different thickness".

Authors : [Alaa A. Akl](#)

Journal : *Int. J. of Mat. Eng. and Tech.* Vol. 8, No 8, (2012) 105-122

24-Title: "Estimation of grain size of a deformed 5251 Al alloy using plat and XRD techniques"

Authors : M. A.Abdel-Rahman, Ahmed.G. Attallah, M. El.sayed, A. A. Ibrahim, [A.A. Akl](#), Atef E. Ali and Emad. A. Badawi

Journal: *Defects and Diffusion Forum*; Vols. 337-338 (2013) 11-18

25-Title: "Microstructure characterization of Al-Mg alloys by X-ray diffraction line profile analysis"

Authors: [A.A.Akl](#) and A.S.Hassanien

Journal: *International Journal of Advanced Research*, V.2 (2014) 1-9

26-Title: "Influence of composition on optical and dispersion parameters of thermally evaporated non-crystalline $Cd_{50}S_{50-x}Se_x$ thin films"

Authors : A.S. Hassanien and [Alaa A. Akl](#)

Journal: *Journal of Alloys and Compounds* 648 (2015) 280-290

27-Title: "Estimation of some physical characteristics of chalcogenide bulk $Cd_{50}S_{50-x}Se_x$ glassy systems"

Authors : A.S. Hassanien and [Alaa A. Akl](#)

Journal: *Journal of Non-Crystalline Solids* 428 (2015) 112–120

28-Title: "Crystal imperfection sand Mott parameters of sprayed nanostructure IrO_2 thin films"

Authors : A.S. Hassanien and [Alaa A. Akl](#)

Journal: *Physica B* 473(2015)11–19

29-Title: "Microstructure and crystal imperfections of nanosized CdS_xSe_{1-x} thermally evaporated thin films"

Authors : [Alaa A. Akl](#) and A.S. Hassanien

Journal: *Superlattices and Microstructures* 85 (2015) 67–81

30-Title: "Electrical transport properties and Mott's parameters of chalcogenide cadmium sulphoselenide bulk glasses"

Authors : A.S. Hassanien and [Alaa A. Akl](#)

Journal: *Journal of Non-Crystalline Solids* 432 (2016) 471–479

31-Title: " Study of optical properties of thermally evaporated ZnSe thin films annealed at different pulsed laser powers"

Authors: AS Hassanien, KA Aly, [Alaa A Akl](#)

Journal: *Journal of Alloys and Compounds*; Volume 685 (2016) 733-742

32-Title: " Effect of Se addition on optical and electrical properties of chalcogenide CdSSe thin films"

Authors : A.S. Hassanien and [Alaa A. Akl](#)

Journal: *Superlattices and Microstructures* 89 (2016) 153-169

33-Title: "Influence of film thickness on optical absorption and energy gap of thermally evaporated CdS_{0.1}Se_{0.9} thin films"

Authors: S. A. Aly and [Alaa A. Akl](#)

Journal: *Chalcogenide Letters*, Vol. 12, No. 10, October (2015) 489 - 496

34-Title: " Effect of Pulsed Laser Power Annealing on Structural and Optical Characteristics of ZnSe Thin Films"

Authors: S.A. Aly, [Alaa A. Akl](#), H. Howari

Journal: *Acta Physica Polonica A*, Vol. 128, No.(3) (2015)414-418

35-Title: "Microstructural and electrical characteristics of sprayed Tungsten oxide thin films"

Authors : S. A. Aly, [A. A. Akl](#), and D. H. Mahmoud

Journal: *International Journal of New Horizons in Physics* 2, No. 2, (2015) 47-52

36-Title: " Structure characterization and optical properties of annealed ZnSSe thin films"

Authors : [Alaa A.Akl](#) , S. A. Aly, and H. Hawari

Journal: *Chalcogenide Letters*, Volume 13, Number 5, May 2016

37-Title: " Microstructural and Electrical Properties of (WO₃)_{1-x}(MoO₃)_x Thin Films Synthesized by Spray Pyrolysis Technique"

Authors : [Alaa A.Akl](#) , S. A. Aly, and M.A.Kaid

Journal: *Res. & Rev.: J. Material Sciences*, Published date: 07/11/2016

38- Title: " *Thermal Annealing Effect on the Single Oscillator Energy and Dispersion Energy of Epitaxial Growth Bilyers of ZnS/ZnSe thin Films*"

Authors : [Alaa A. Akl](#) ,Salah M.M. Salman

Journal: IJSRSET | Volume 3 | Issue 8 (2017) 489-494

39-Title: *INFLUENCE OF GROWTH CONDITIONS ON THE ELECTROCHROMIC EFFICIENCY AND THE ENERGY BAND GAP OF IRIIDIUM OXIDE THIN FILMS*".

Authors : [Alaa A. Akl](#), Salah M.M. Salman and Eman Kashit

Journal: *Int. J. Adv. Res.* 5(12) (2017) 1695-1706

40-Title: "INFLUENCE OF CU/IN RATIOS AND THE GROWTH TEMPERATURE ON THE MICROSTRUCTURAL PARAMETERS OF SPRAYED CUINSE2 THIN FILMS"

Authors: [Alaa A. Akl](#) and Salah M.M. Salman

Journal: *Int. J. Adv. Res.* 6(2) (2018)1450-1461

41-Title: " *Influence of thermal and compositional variations on conduction mechanisms and localized state density of amorphous Cd₅₀S_{50-x}Se_x thin films*"

Authors: Ahmed Saeed Hassaniena, [Alaa Ahmed Akl](#)

Journal: *Journal of Non-Crystalline Solids* 487 (2018) 28–36

42-Title:"*Improving microstructural properties and minimizing crystal imperfections of nanocrystalline Cu₂O thin films of different solution molarities for solar cell applications*"

Authors : [Alaa A. Akl](#), Safwat A. Mahmoud, S.M. AL-Shomar, A.S. Hassanien

Journal : *Materials Science in Semiconductor Processing* 74 (2018) 183-192

43-Title: "Surface Morphology, Optical Conductivity, Localized States and Dielectric Constants of Sprayed Nickel Oxide Films at Different Substrate Temperatures"

Authors: [Alaa A. Akl](#), Safwat A. Mahmoud, Salah M. M. Salman

Journal: *IJSR; volume (7), issue (4) (2018)935-943*

44-Title:" *Synthesis, crystallography, microstructure, crystal defects, and morphology of Bi_xZn_{1-x}O nanoparticles prepared by sol-gel technique* "

Authors: A.S. Hassaniena, [Alaa A. Akl](#), A.H. Sa'aedie

Journal: *CrystEngComm, Volume 20, Issue 12 (2018)1716-1730*

45-Title:" *Effect of growth temperatures on the surface morphology, optical analysis, dielectric constants, electric susceptibility, Urbach and bandgap energy of sprayed NiO thin films*"

Authors: [Alaa A. Akl](#), Safwat A. Mahmoud

Journal: *Optik – Int. J. for Light and Electron Optics* 172 (2018) 783–793

46-Title: " MICROSTRUCTURE, CRYSTAL IMPERFECTIONS AND ULTRASONIC STUDIES OF SPRAYED NANOSIZED $Cu_{2-x}S_x$ AND $Cu_{2-y}Cr_y$ THIN FILMS"

Authors: SM Al-Shomar, MAY Barakat, SA Mahmoud, [A.A. Akl](#)

Journal: DIGEST J. OF NANOMATERIALS AND BIOSTRUCTURES 13.3 (2018): 885-901.

47-Title: " Optical characteristics of iron oxide thin films prepared by spray pyrolysis technique at different substrate temperatures"

Authors: Ahmed Saeed Hassanien, [Alaa A. Akl](#)

Journal: Applied Physics A ;Materials Science & Processing; Volume 124, (11) (2018) 1-16

48-Title: X-Ray Studies: CO_2 pulsed laser annealing effects on crystallography, microstructure and crystal defects of vacuum deposited nanocrystalline ZnSe thin films"

Authors: Ahmed Saeed Hassanien, [Alaa A. Akl](#)

Journal: CrystEngComm; Volume 20 (2018) 7120.

49-Title: " Optical characteristics and refractive index dispersion parameters of annealed TiO_2 thin films synthesized by RF-sputtering technique at different flow rates of the reactive oxygen gas"

Authors: Ahmed Saeed Hassanien, [Alaa A. Akl](#)

Journal: Physica B: Condensed Matter; Volume 576, (2020) 411718

50-Title: " Physical and optical properties of a-Ge-Sb-Se-Te bulk and thin film samples: Refractive index and its association with electronic polarizability of thermally evaporated a- $Ge_{15-x}Sb_xSe_{50}Te_{35}$ thin- films"

Authors: Ahmed Saeed Hassanien, Ishu Sharma, [Alaa A. Akl](#)

Journal: Journal of Non-Crystalline Solids, Volume 531, (2020) 119853

51-Title: " Estimation of The Lattice Parameters, Crystallite Size and Internal Micro Strain of $Cu_{1-x}In_xSe_2$ Thin Films by Williamson-Hall Method"

Authors: [Alaa Ahmed Saad Akl](#)

Journal: Determinations in Nanomedicine & Nanotechnology; Volume 1, issue 5 (2020)1-9

52-Title: "Intensive comparative study using X-Ray diffraction for investigating microstructural parameters and crystal defects of the Novel nanostructural $ZnGa_2S_4$ thin films"

Authors: [Alaa Ahmed Akl](#), IM El Radaf, Ahmed Saeed Hassanien

Journal: Superlattices and Microstructures, Volume 143(2020)106544.

53-Title: " Physical and optical studies of the novel non-crystalline $Cu_xGe_{20-x}Se_{40}Te_{40}$ bulk glasses and thin films"

Authors: Ahmed Saeed Hassanien, IM El Radaf, [Alaa Ahmed Akl](#)

Journal: Journal of Alloys and Compounds; (2020) 156718

54-Title: "ESTIMATION OF CRYSTALLITE SIZE, LATTICE PARAMETER, INTERNAL STRAIN AND CRYSTAL IMPURIFICATION OF NANOCRYSTALLINE $\text{Al}_3\text{Ni}_{20}\text{B}_x$ ALLOY BY WILLIAMSON-HALL METHOD"

Authors: [A. A. SAAD AKL](#), M. ELHADI

Journal: *Journal of Ovonic Research*; Vol. 16, No. 5 (2020)323 - 335

55-Title: "An extensive comparative study for microstructural properties and crystal imperfections of Novel sprayed Cu_3SbSe_3 Nanoparticle-thin films of different thicknesses"

Authors: [Alaa Ahmed Akl](#), Ahmed Saeed Hassanien, IM El Radaf,

Journal: *Optik – Int. J. for Light and Electron Optics*, Available online 24 October (2020) 165837

56-Title: "Investigation of thermal annealing effect on the microstructure, morphology, linear and non-linear optical properties of spray deposited nanosized V_2O_5 thin films"

Authors: H. Khmissi, Safwat A. Mahmoud and [Alaa Ahmed Akl](#)

Journal: *Optik – Int. J. for Light and Electron Optics* Volume 227, February 2021, 165979

57-Title: "Comparative study of microstructure parameters and–crystalline defects of quaternary nanoparticles $\text{La}_{0.8-x}\text{Ce}_x\text{Ag}_{0.2}\text{MnO}_3$ alloys"

Authors: Nejah Hamdaoui, Yashar Azizian-Kalandaragh, Boubaker Zaidi, [Alaa Ahmed Akl](#)

Journal: *Applied Physics A: Materials Science & Processing*, 127 (5)377) (2021)1-18

58-Title: "Comparative microstructural studies using different methods: Effect of Cd-addition on crystallography, microstructural properties, and crystal imperfections of nano-structural thin $\text{Cd}_x\text{Zn}_{1-x}\text{Se}$ films"

Authors: [Alaa Ahmed Akl](#) and Ahmed Saeed Hassanien

Journal: *Physica B: Condensed Matter*; 620 (2021) 413267

59-Title: "Effect of Ni-doping on the structural, magnetic, and electronic properties of $\text{La}_{0.2}\text{Sr}_{0.8}\text{MnO}_3$ perovskite"

Authors: Nejah Hamdaoui, Dhahbi Tlili, Yashar Azizian-Kalandaragh, Boubaker Zaidi, Sadok Zemni, [Alaa Ahmed Akl](#), and Lotfi Beji

Journal: *Mater Sci: Mater Electron*; 21 June 2021; : 19 September 2021

60-Title: "Comparative Studies for Determining the Optical Band-gap Energy of the Novel Polycrystalline Thin ZnGa_2S_4 Films Sprayed at Different Film Thicknesses"

Authors: Ahmed Saeed Hassanien, [Alaa A Akl](#), IM El Radaf

Journal: March 2021- DOI:[10.21203/rs.3.rs-325892/v1](https://doi.org/10.21203/rs.3.rs-325892/v1)

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Experimental of Solid State Physics

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