

## CURRICULUM VITAE

### Personal information

Name: Saleh Ahmed Saleh

Date of birth: Oct.28, 1968

Nationality: Egyptian      Sex: Male.      Marital status: Married

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### Education

**1998-2002: *PhD*** in physics - Egyptian Mission Scholarship to Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland.1999-2001.

Title: *Growth, characterization and photoemission spectroscopy of  $HT_c$  thin films*

**1993-1997:** Studies of physics at Faculty of Science (Sohag) South Valley University Obtained degree (09/97): "*M.Sc.*". Title: *Experimental studies on some transport properties of  $Bi_{2-x}In_xSe_3$  Alloys*

**1987-1991 *B.Sc.*** Degree obtained (05/91)

### Job experience

03/1993 to present: *Physics Department*, Faculty of science, Sohag University, Egypt.

7/2003 to 26/9/2008 as lecturer. (In physics) *Physics Department*, Faculty of Science, Sohag Uni., Egypt.

27/9/2008 to 25/4/2016 as Associated Prof. (in physics) *Physics Department*, Faculty of Science, Sohag Uni.

31/8/2007 to 1/6/2016 as Assistance Prof. (in physics) *Physics Department*, College of Science and Arts, Najran Uni. KSA.

26/4/2016 to present as Prof. (in material science physics) *Physics Department*, Faculty of Science, Sohag Uni.

### Main Research Interests

-Research on nanostructured functional materials and thin films.

-Research on *high temperature superconducting thin films*, single crystals and polycrystalline.

- Research on transport properties of various alloys.

## **Research Interests**

Synthesis and characterization of nanostructured materials and thin films and their testing and evaluation for realistic applications.

## **International Visits**

1. **September, 2000-November, 2000**, visit to Wisconsin University labs and multi-user research lab (*Synchrotron Radiation Center*, WI-53589 Stoughton), **USA**.

## **FLDP & ICTP Training**

- 1- **Recent trends in teaching, 8-11 May, 2005.**
- 2- **Management of Scientific Research, 4-7 July, 2005.**
- 3- **Design Methodology, 21-25 September 2005.**
- 4- **Quality Assurance and Accreditation, 21-22 May 2006.**
- 5- **Credit Hours , 30 -31 May 2006.**
- 6- **Preparation research project, 17-19 February, 2007.**
- 7- **Quality of research and international publishing mechanisms in ISI journals.**
- 8- **Learning outcomes for programs and courses and methods of measurement.**
- 9- **Measuring and evaluating learning outcomes.**
- 10- **Use of technology in teaching (design and implementation of educational films).**
- 11- **Curriculum maps.**
- 12- **Design of questionnaires.**
- 13- **Ethics of Scientific Research.**
- 14- **Requirements for institutional and programmatic accreditation.**
- 15- **Design and construction of websites using Front page.**
- 16- **ICT Skills courses from Supreme Council of Universities.**
- 17- **Microsoft Training Course on Electronic Content.**
- 18- **The course of preparing a university teacher.**
- 19- **Intensive French course.**

## **As a Reviewer by International Journals:**

- 1- Journal of Alloys and Compounds**
- 2- Philosophical Magazine Letters.**
- 3- Chemistry of materials.**
- 4- Revista Mexicana de Fisica.**
- 5- Materiel Research Bulletin.**
- 6- Journal of Optoelectronics and Advanced Materials.**
- 7- Philosophical Magazine.**
- 8- Journal of Inorganic materials.**
- 9- Phase Transition.**

## **Research and Academic Projects participations:**

- 1- Research project (NU02/09) from Deanship of Scientific research at Najran Uni., Saudi Arabia. Title: Study physical properties of Ge-doped SbSe alloy. Researchers; S.A. Saleh and A. Al-Hajry. Budget: 50,000 SR.**
- 2- Research project (NU9/10) from Deanship of Scientific research at Najran Uni., Saudi Arabia. Title: Growth, characterization and study some physical properties of Bi-In-Se thin films. Researchers; S.A. Saleh, A. Al-Hajry and I.A. Abdel-Latif. Budget: 70,000 SR.**
- 3- September 2006 - August 2009, member of the project management and executive team, TEMPUS, JEP-32064-2004, Introduction New & Up-dating Courses of Materials Science.**
- 4- January 2005- September 2006, Quality Assurance and Accreditation project, Sohag Faculty of Science, Coordinator of the post-graduates study and research committee.**
- 5- July 2005 – March 2007: member of the project executive team of Faculty and Leadership Development Project.**
- 6- September 2006 – June 2007, Quality Assurance and Accreditation project, Sohag Faculty of Education, Coordinator of Physics program,.**
- 7- September 2004 – May 2006: member of the project executive team under title of ‘Experimental Science and Technology Education Project’ (Code No. B- 099-P1), funded by Higher Education Enhancement Project Fund, Egyptian Ministry of Higher Education.**

## Teaching experience

### Courses at Sohag University (Egypt):-

#### Undergraduate students:-

- 1- Electromagnetic theory
- 2- Thermodynamics
- 3- Spectrum.
- 4- Modern Physics
- 5 – Applied electronics
- 6- Electricity and magnetism.
- 7- Waves and Vibrations.
- 8- Optics.
- 9- Superconductivity.
- 10- Solid state
- 11- Properties of Matter.
- 12- Heat.
- 13- Alternating current

#### Graduate students:-

- Experimental Solid State.
- Medical Engineering.
- Special course.

### **Courses at (College of Science and Arts), Najran University, KSA (2007/ 2016)**

- 1- Quantum mechanics
- 2- Atomic physics
- 3- Statistical mechanics.
- 4- Waves and Vibrations
- 5 – Electricity and magnetism.
- 6- Electromagnetic theory
- 7- 101 Phys.
- 8- 104 Phys.
- 9- Solid state physics
- 10- Electronics
- 11- Light
- 12- Mathematical phys. (1 and 2).
- 13- Mechanic (1 and 2)
- 14- Classical mechanic and relativity.
- 15- 105 Phys.

## Research experience

The researcher has extensive experience in the preparation and characterization of many functional materials in different forms (polycrystalline, single crystals or thin films), good knowledge about vacuum deposition systems and about morphological, structural, optical, electrical and thermal characterization techniques. He has been working for several projects on synthesis and characterization of high

temperature superconducting materials and study their physical properties, during his stay at Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland and University labs and multi-user research lab (Synchrotron Radiation Center, WI-53589 Stoughton, USA).

The specific skills of the researcher include project management of multiple research and development (R&D) projects, surface coating manufacturing techniques such as pulsed laser deposition, sputtering, and electron beam evaporation. The researcher is skillful in using structural characterization techniques such as XRD, SEM, TEM, and HR-TEM; chemical analytical techniques including XPS, and EDS; optical characterization techniques such as spectrophotometers, The Fourier Transform Infrared Spectroscopy (FT-IR), Raman scattering and photoemission spectroscopy (PES); electrical measurements tools such as four-point probe and two terminal configurations; thermal characterization techniques such as differential scanning calorimetry (DSC); and a conventional differential technique for thermoelectric power measurements.

## **Attended Conferences & Workshops**

### **Scientific conferences**

- 1- International Conference on Materials Science and its Applications, Taif University, KSA, 13 – 15 February 2012. *Oral presentation* "Studies on physical properties of Sm doped PbSe"
- 2- The fifth Saudi physical society conference (SPS5)" Abha, KSA, 25–27 Oct., 2010. *Oral presentation* "*Investigations on physical properties of SbGeSe films*"
- 3- The First International Conference on Advanced Materials and their Applications (NRC), Cairo, Egypt Dec. 12<sup>th</sup> -14<sup>th</sup> 2005 *Oral presentation* "Studies on physical properties of Sm doped PbSe"
- 4- 18<sup>th</sup> Conference of the European Physical Society-Condensed Mater Division (EPS-CMD 18), Montreux, Switzerland, March 13<sup>th</sup> -17<sup>th</sup> 2000;
- 5- SRC users group meeting and workshop on atomic and molecular physics, Madison, USA, October 27<sup>th</sup> -28<sup>th</sup> 2000; *Invited talk: "PLD growth of high Tc films for PES studies"*.

### **Academic conferences & Workshops**

- 1- Workshop on New standards for the accreditation of higher education institutions, 17 Jan. 2017.
- 2- Workshop on First self-assessment, Najran University, 30 March 2010.

- 3- Workshop on Preparing the trainers on the technical aspects of the progress of the projects of higher education development, 14 June 2007.
- 4- Workshop on **Preparing physics courses**, 13 June 2007.
- 5- Practical workshop on Recent undergraduate laboratory experiments, 19-24 May 2007.
- 6- Conference on Evaluation of Experience and Future Vision, Azher University, 20 March 2007.
- 7- Conference on Student Assessment: A mandatory requirement for accreditation, Assiut Uni., 6 Nov., 2006.
- 8- Workshop on Evaluation of students in light of quality standards, 9 May, 2006.

## Supervision

### Undergraduate students:-

- 1- supervision on Graduation research for the B. Sc. Students of Physics department (Sohag & Najran).
- 2- supervision on Graduation research for the B. Sc. Students of Computer science department (Sohag).

### Postgraduate students:-

- 1- *M. Sc. thesis "Study of some transport properties of sodium-Doped Lanthanum Manganites"*  
Awarded May 5, 2007.
- 2- *Ph. D. thesis "Studies on some physical properties of PbSe compound doped with Samarium element"*.  
Awarded Dec.25,2006.

## Tasks and committees Membership of scientific communities

- A management member of the project of "**Introduction New & Up-dating Courses of Materials Science**" funded by **TEMPUS**.
- A trainer in the quality assurance unit of the Faculty of Science in Sohag.
- Responsible of the Art committee in Faculty of Science (Sohag).
- A member of the committee of graduate and research Affairs.
- Sixteen workshops of Faculty and Leaders Development.
- Share in the training program of Improving Higher Education Workforce ICT Skills.

## **Construction works**

- 1- Participate in writing specifications of apparatuses for Center of Advance Materials and Nano Engineering CAMNE in Najran University and selection them.**
- 2- Taking part in the installation and operation of Panalytical and Bruker XRD in Center of Advance Materials and Nano Engineering CAMNE in Najran University.**
- 3- Taking part in the installation and operation of four and two points probe for DC resistivity measurements in Center of Advance Materials and Nano Engineering CAMNE in Najran University.**
- 4- Taking part in the installation and operation LCR meter and fabrication sample holder and Furnace for high temperature measurements in Center of Advance Materials and Nano Engineering CAMNE.**
- 5- Installation Laboratory for sample preparation using solid state reaction and chemical methods in Center of Advance Materials and Nano Engineering CAMNE in Najran University (Design and fabrication die with different sizes and shapes).**

## Publication list

- 1- Magnetocaloric Effect, Electric, and Dielectric Properties of  $\text{Nd}_{0.6}\text{Sr}_{0.4}\text{Mn}_x\text{Co}_{1-x}\text{O}_3$  Composites, I. A. Abdel-Latif, A. M. Ahmed, H. F. Mohamed, S.A. Saleh, J. A. Paixão, Kh. A Ziq, M. Kh. Hamad, E. G. Al-Nahari, M. Ghozza, S. Allam, Journal of Magnetism and Magnetic Materials, 457 (2018) 126-134.
- 2- Structural and Optical Properties of Nanostructured Fe-Doped  $\text{SnO}_2$ , S.A. Saleh, A.A. Ibrahim, S.H. Mohamed, Acta Phys. Polo. A 129 (2016) 1220-1225.
- 3- Effect of Fe doping on the electrical and magnetic properties of  $\text{Sn}_{1-x}\text{Fe}_x\text{O}_2$  nanoparticles, S.A. Saleh, A.M. Abdel Hakeem, E.M.M. Ibrahim, Eur. Phys. J. Appl. Phys. 73 (2016) 30401.
- 4- Enhancement of the power factor of  $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$  ( $0.00 \geq x \geq 0.08$ ) alloys, S.A. Saleh, Philo. Mag. 94 (2014) 3183-3194.
- 5- Growth and opto-electro-structural properties of nanocrystalline PbSe thin films, H. M. Ali, S.A. Saleh, Thin Solid Films 556 (2014) 552-559.
- 6- Preparation of degenerate *n*-type  $\text{Sb}_{65}\text{Ge}_x\text{Se}_{35-x}$  alloys with a small grain size and their thermoelectric properties, S.A. Saleh, J. Physics 2 (2013) 4-11.
- 7- Raman spectroscopy and structural properties of  $\text{In}_x\text{Bi}_{40-x}\text{Se}_{60}$  system, S.A. Saleh, E. M M Ibrahim, M.M. Wakkad, J. Vib. Spec. 67 (2013) 22-26.
- 8- The optical and electrical properties of  $\text{Bi}_{40-x}\text{In}_x\text{Se}_{60}$  thin films, S.A. Saleh, I. A. Abdel-Latif, A. Al-Hajry, J. Physics 1 (2012) 9-14.
- 9- Effect of iron doping on the physical properties of europium manganites, I. A. Abdel-Latif, S.A. Saleh, J. Alloys & Comp., 530 (2012) 116-120.
- 10- Structural, Electrical and Optical investigations of  $\text{Bi}_{40-x}\text{In}_x\text{Se}_{60}$  films, S.A. Saleh, International Conference on Materials Science and its Applications, Taif University (13-15 Feb.2012).
- 11- The effect of nano-crystallite size on physical and chemical properties of neodymium cobaltate, I. A. Abdel-Latif, M.M. Rahaman, S.A. Saleh, S.B. Khan, M. Faisal, International Conference on Materials Science and its Applications, Taif Uni. (13-15 Feb.2012) (Poster).



- 12- Structure, Electrical and Dielectric Properties of Strontium Europium Ferrimanganites, A. A. Hendi, I. A. Abdel-Latif, S.A. Saleh, International Conference on Materials Science and its Applications, Taif Uni. (13-15 Feb.2012).
- 13- Optical properties of Ge doped eutectic SbSe thin films, S.A. Saleh and A. Al-Hajry, AIP Conf. Proc. 1370 (2011) 75-80.
- 14- Studies on physical properties of  $\text{Bi}_{40-x}\text{In}_x\text{Se}_{60}$  thin films, S.A. Saleh, A. A. Hendi, I. A. Abdel-Latif, J. American Science 7 (2011) 923-928.
- 15- Structural and Optical Properties of  $\text{Sb}_{65}\text{Se}_{35-x}\text{Ge}_x$  Thin Films, S.A. Saleh, A. Al-Hajry, H. M. Ali, Physica Scripta 84 (2011) 015604.
- 16- Synthesis and characterization of  $\text{Sb}_{65}\text{Se}_{35-x}\text{Ge}_x$  alloys, S.A. Saleh, Materials Science and Applications 2 (2011)950-956.
- 17- Thermoelectric power factor of  $\text{RuSr}_2\text{GdCu}_2\text{O}_8$ , S.A. Saleh, E. M M Ibrahim, Philo. Mag. 91 (2011) 841–849.
- 18- Investigations on physical properties of SbGeSe films, S.A. Saleh, The Fifth Saudi Physical Society Conference (SPS5), Abha, (KSA), 25-27 Oct., 2010.
- 19- The thermoelectric properties of Bi-2223 superconductors sintered at different conditions, E.M.M. Ibrahim, S.A. Saleh, and S.A. Ahmed, Supercond. Sci. Technol. 21 (2008) 075001.
- 20- A Study on Thermoelectric Power and Electrical Properties of Bi-2223 Superconductors Sintered for Different Time Periods, S.A. Saleh, and S.A. Ahmed, E.M.M. Elsheikh, J. Supercond. Nov. Magn. 21 (2008) 187–192.
- 21- The effect of annealing process on the physical properties of  $\text{La}_{1-x}\text{Na}_x\text{MnO}_y$ , A.M. Ahmed, S.A. Saleh, E.M.M. Ibrahim, E. Bontempi, H.F. Mohamed, J. Magn. Magn. Mate. 320 (2008) L43-L49.
- 22- Electrical and thermoelectric properties of PbSe doped with Sm, M.M. Ibrahim, S.A. Saleh, E.M.M. Ibrahim, A.M. Abdel Hakeem, J. Alloys & Comp., 452 (2008) 200-204.
- 23- Influence of sintering temperature on excess conductivity in Bi-2223 superconductors, E. M. M. Ibrahim, S. A. Saleh, Supercond. Sci. Technol., 20 (2007) 672–675.

- 24- Sm-substitution effects on structural and transport properties of PbSe, M. M. Ibrahim, E. Kh. Shokr, S.A. Saleh, E.M.M. Ibrahim, A. M. Abdel Hakeem, Non Crystalline Solids 353 (2007) 2125-2130.
- 25- Studies on sintering effect on the transport properties of  $Pb_{1-x}Sm_xSe$ , M.M. Ibrahim, S.A. Saleh, E.M.M. Ibrahim, A.M. Abdel Hakeem, Physica Scripta 75 (2007) 660-665.
- 26- Influence of sintering temperature on thermopower and hardness of  $RuSr_2GdCu_2O_8$ , S.A. Saleh, S M Khalil, E. M M Ibrahim, Supercond. Sci. Technol., 20 (2007) 372.
- 27- Synthesis and Characterization of Semimagnetic Semiconductor  $Pb_{1-x}Sm_xSe$ , M.M.Ibrahim, E.M.M. Ibrahim, S.A. Saleh, A.M. Abdel Hakeem, J. Alloys & Comp., 429 (2007)19-24.
- 28- Electrical conduction of  $SnBi_4Se_7$ , S.A. Ahmed, E.M.M. Ibrahim, S.A. Saleh, Appl. Phys. A 85, (2006) 177-184.
- 29- Studies on sintering effect on the structural and transport properties of (2223) phase, S.A. Saleh, Physica C, 444 (2006) 40-44.
- 30- Crystal structure and some transport properties of Na-doped  $LaMnO_y$ , A.M. Ahmed, S.A. Saleh, E.M.M. Ibrahim, H.F. Mohamed, J. Magn. Magn. Mater., 301 (2006) 452.
- 31- Studies on physical properties of Sm doped PbSe, M. M. Ibrahim, E. M. M. Ibrahim, S. A. Saleh, and A. M. Abdel Hakeem, The First International Conference of Advanced Materials and their Applications, National Research Centre, (12-14 December 2005).
- 32- Coexistence of ferromagnetism and high temperature superconductivity in Dy doped  $BiPbSrCaCuO$ , H. Berger, D. Ariosa, R. Gaal, A. Saleh, G. Margaritondo et al., Surface Review and Letters 9 (2002) 1109.
- 33- On detection of the Fermi edge in in-situ grown thin films of high  $T_c$  oxides, M. Abrecht, D. Ariosa, S.A. Saleh, S. Rast, G. Margaritondo, M. Onellion, D. Pavuna, Physica C, 364-365, (2001) 538.
- 34- Improved structural properties and crystal coherence of superconducting  $NdBa_2Cu_3O_{7-\delta}$ , M. Abrecht, D. Ariosa, T. Schmauder, S.A. Saleh, S. Rast, D. Pavuna, J. Phys. D: Appl. Phys. 33, Iss 21, (2000) 2699-2702.