CURRICULUM VITAE

Prof. Dr / Ahmed Sedky Mohamed Abdel- Maksoud Youssef



Date of Birth 29/12/1960

Place of Birth Menoufia, Egypt

Material Status Married and I have five children

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1- University Degrees:

1- B.Sc. in physics from Menoufia University in May 1983.

2- M.Sc. in physics from Assiut University in 8/12/1991.

"Some Properties of Rotating Plasma"

- 3- PhD in physics from Jamia Millia University in 10/3/1999.
- "Effect of substitution and Columnar Defects on the Electrical and Magnetic Properties of High Temperature Superconductors"
- 4- Associate Prof. of Physics from Assiut University in 20/2/2005.
- 5- Prof. Dr of Experimental Solid State Physics (condensed matter) from Assiut University in 27/11/2010.

2- Previous Employments:

- 1-Demonstrator of radiation physics at Assiut University from 26/12/1983 up to 25/3/1985.
- 2- Demonstrator of physics at Assiut University from 26/3/1985 up to 10/1/1992.

- 3- Assistant Lecturer of physics at Assiut University from 11/1/1992 up to 21/7/1995.
- 4- Ph.D Scholarship of physics from India at Jamia Millia University from 21/7/1995 up to 13/3/1999.
- 5-Assistant lecturer of physics at Assiut University from 15/3/1999 up to 28/8/1999.
- 6- Lecturer of physics at Assiut University in 29/8/1999.
- 7- Assistant Prof. of physics at Assiut university from 20/2/2005 up to 24/11/2010.
- 8- Prof. of Physics at Assiut university from 25/11/2010 till now.
- 9- Working at Physics Department, Faculty of Science, King Faisal University from 1/7/2002 up to 30/6/2013.

3- Teaching and Research:

Teaching the courses of Physics for BSc and MSc levels such as General Physics, Modern Physics, Nuclear Physics, Biophysics, Electromagnetism, Electrodynamics, Physical Optics, Astronomy, Solid State Physics, Methods of Solid State Physics, Selected Topics, Physics Self Learning, Plasma Physics, Special Topics and Advanced Materials.

4- Conferences:

- 1- Attending First Spring School on Current Activities of Material Science, Assiut, Egypt, April 1999.
- 2-Attending First Spring School on Current Activities of Material Science, Assiut, Egypt, April 2000.
- 3- Attending International Conference in Basic Science and Technology, Assiut, Egypt, November 2000.
- 4- Attending International Workshop on Superconductivity and Magnetic Materials, Oita University, Japan, May 2001.
- 5- Attending the Second Saudi Science, King Abdul-Aziz University, Gada, Saudi Arabia, March 2004.
- 6- Attending and presented paper the Saudi Physics Meeting, Om Elkory University, Maka, June 2005.

- 7- Attending and presented paper in the Saudi Meeting for Physical Science, King Soad University, Riyadh, Jun. 2006.
- 8- Attending and presented paper in the Saudi Third Conference for Physical Science, King Soad University, Riyadh, March 2007.
- 9- Attending and presented paper the Saudi Meeting for Physical Science, King Abdel-Aziz City for science and Technology, Riyadh, 11-12/11 /2008.
- 10- Attending and presented paper in the International Conference on Condensed Matters and Materials Physics, Vinci, Italy, 27-29/4 /2011.
- 11- Attending and presented paper in the International Conference on Materials Science and its Application, Taif, Saudi Arabia, 13-15/2 /2012.
- 12- Attending and presented paper in the International Conference on Condensed Matters and Materials Physics, Amsterdam, Netherland, 13-14/5 /2012.
- 13- Attending and presented paper in the International Conference for Young Scientists in Basic Science, Assiut University, Egypt 29-30/4/2014.
- 14- Attending and presented paper in the International Conference of Egyptian Society of Material Research, Hurggada, Egypt 6-9/1/2015.
- 15- Attending and presented paper in the 3rd Annual International Conference on Physics, 20-23 July 2015, Athens, Greece.
- 16- Attending and presented paper in the First International Conference on Multidisciplinary research, 28-31 October 2015, Porto Sokhna, Ain Sokhna, Egypt.
- 17- Attending and presented two articles in the Fifth International Conference for Young Scientists in Basic and Applied Sciences, 29/10-1/11/2016, Faculty of Science, Assiut University, Assiut, Egypt.
- 18- Attending and presented paper in the the First International Conference on Multidisciplinary research by Faculty of Science, Assiut University, 28-31 January 2018, Hurggada, Egypt.
- 19-Attending and presented paper in the First International Conference on Particles, Materials and Energy: Advanced Medical and Industrial Applications, (2-6) Decamber (2018) Ain Shams University, Cairo, Egypt (FICPME2018).

5- (a) Arabic Books:

- 1- Ahmed Sedky, General Physics, Al-Hussian Publishing, Saudi Arabia First Edition (2007).
- 2- Ahmed Sedky, Superconductivity, Presented as a Project of Authoring Book, King Faisal University, Saudi Arabia (2008).
- 3- Ahmed Sedky, Introduction on Solid State Physics, Presented as a Project of Authoring Book, King Faisal University, Saudi Arabia (2008).
- 4- Ahmed Sedky, Physics and Technology, Presented as a Project of Authoring Book, King Faisal University, Saudi Arabia (2009).
- 5- Ayman Sawalha and Ahmed Sedky, Electromagnetism, King Faisal University Publishing, , Saudi Arabia (2010).
- 6- Ahmed Sedky, Introduction to Astronomy, Presented as a Project of Authoring Book, King Faisal University, Saudi Arabia (2010).
- 7- Ahmed Sedky, Physics of Solid State, Dar-alfajr Publishing (2018).
- 8- Ahmed Sedky, Principles of General Physics, Dar-alfajr Publishing (2018).
- 9- Ahmed Sedky, Astronomy and the Universe: Foundations and Concepts, Dar-alfajr Publishing (2019).

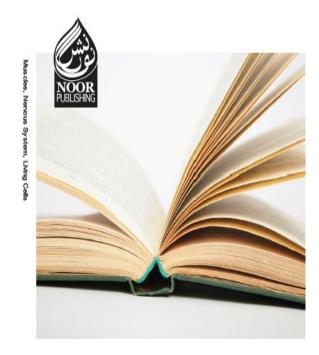
5- (b) English Short Books:

- 1- Ahmed Sedky, Concepts of Modern Physics, Noor Publishing (2016).
- 2- Ahmed Sedky, Biophysics: An Introduction, Noor Publishing (2016).

Biophysics: An Introduction

Biophysics has a prominent role to play in tackling these and other biological problems. Biophysics makes use of physical concepts and techniques to address problems in biology. Physics has been very successful at illuminating fundamental aspects of biological problems at the molecular level such as X-ray diffraction or nuclear magnetic resonance to determine the structures of biological molecules. Biophysics: an introduction by Ahmed Sedky and Mohamad Rashad consists of 9 Chapters presented as follows: Equilibrium and stability of the human Body in Chapter 1, Muscles and elbow of the human body in Chapter 2, Energy and heat of the human body in Chapter 3, Vision sense of the human body in Chapter 5, The Circulating system of the human body in Chapter 6, Nervous system of the human body in Chapter 8 and Biophysical applications of the human body in Chapter 8 burnan body in Chapter 6, Nervous delir of the human body in Chapter 8 and Biophysical applications of the human body in Chapter 8 and Biophysical applications of the human body in Chapter 8.

Prof.Dr Ahmed Sedky, Professor of Physics at the University of Assiut. He has about seventy published articles and wrote some scientific books for undergraduate students. He is member of the Promotion Committee for Physics and a reviewer international journal. He particepated in scientific programms for graduate students and get some outstanding publishing awards.



Ahmed Sedky

Biophysics: An Introduction

Muscles, Nervous System, Living Cells

NOOR PUBLISHING



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6-Academic Accreditation and Assessment:

- 1-Attending Training Program on Educational Qualification, Assiut University, 8-15 May 1999.
- 2- Attending Training Program on Design and Preparation of Course, Assiut University, 24-27 July 2005.
- 3- Attending Training Program on Teaching for Large and Small Numbers, Assiut University, 7-9 July (2007).
- 4- Attending Training Program on Evaluation of Course, Assiut University, 7-9 July 2007.
- 5-Attending Training Program on Economics of Marketing and Financing of Scientific Research, Assiut University, 10-12 July 2007.

- 6-Attending Training Program on Management of the Research Team, Assiut University, 23-25 July 2008.
- 7-Attending Training Program on Strategies and Teaching Skills of Effective Electronic, King Faisal University, 27 March 2008.
- 8- Attending Workshop on Strategy of the University Scientific Research for the next Decade Years, King Faisal University, 2 June 2010.
- 9- Attending Training Program on Crated Hours, Assist University, 13-15 July 2010.

7- Members and Prize:

- 1- Selected for one year from American Society for Advanced Science and Technology.
- 2- The prize of Best Paper in Physics from Assiut University (2002).
- 3- Scientific Publishing outstanding reward from King Faisal University, (2010-2014).
- 4- Physical Society of Saudi Arabia and Egyptian Society of Material Research.
- 5- Head of Scientific Research Committee of Physics Research Lab., King Faisal University.
- 6- Committee of Course distribution, Assiut and King Faisal Universities.
- 7- Coordinator of Higher Education Programmer (Master Level), King Faisal University.
- 8- Physics evaluation Committee of Faculty of Science, Assiut University Magazine since 2015.
- 9- Project evaluation Committee for research projects and scientific degrees in most of Arabic Universities.
- 10- Egyptian Committee of associate Prof. and Prof. Degrees of Physics (2016-2019).
- 11- External examiner for MSC Thesis of Haifa El- Kady on "Effect of Hydrogen on the critical Current Density and Pinning Force of Superconducting System, Dammam University, Saudi Arabia (2006).
- 12- Internal examiner for MSC Thesis of Bander Abu Zaid on ""Mechanical and Transport Properties of Some Superconducting Systems", King faisal University, Saudi Arabia (2009).

- 13- Internal examiner for MSC Thesis of Ohood El-Sohail on "" Crystal Structure and Electrical Properties of Some Ceramic Varistor ", King faisal University, Saudi Arabia (2010).
- 14- External Examiner for MSC Thesis of Nagla El- Melham on title "Study of Mechanical Properties of Sn-Zn and Sn-Zn-Cu", King Faisal University, Saudi Arabia (2010).
- 15- Internal examiner for MSC Thesis of Wafa El-Battat on "" Effect of Rare Earth Element Addition on the Properties of Bi (Pb) :2212 Superconducting System ", King faisal University, Saudi Arabia (2013).
- 16- External Examiner for MSC of Mona El- Ofey on "Structural and Optical Properties of ZnO Thin Films", Taief University, Saudi Arabia (2013).
- 17- External Examiner for MSC Thesis of Nermeen Shadowy on "Study of some Physical Properties of Pre-treated Single Cabin Nanotubes Loaded Polymer Nan composites, Cairo University, Egypt (2017).
- 18- External Examiner for MSC Thesis of Assma Baker on "Study on Nano-Polymer Composites for Greenhouse Applications, Banha University, Egypt (2017).
- 19- External Examiner for MSC Thesis of Mohamed Abdel Hamid on "Synthesize and Characterization of Polymer Based Nano-composite Solar Cells", Sohag University, Egypt (2018).
- 20- External Examiner for MSC Thesis, Synthesize and Characterization of Polymer Based Nanocomposite Solar Cells, Banha University, Egypt (2018).
- 21- External Examiner for MSC Thesis, Physical and optical properties of nano-ferrites doped by laser dyes, Tanta University, Egypt (2019).
- 22- Internal Examiner for MSC Thesis "Characterization and Measuring of Some Properties of High Temperature Superconducting Materials", Assiut University, Egypt (2021).
- 23- External Examiner for PhD Thesis, "Physical Properties and Efficiency of Polymer Based Solar Cells Treated by Chemical and Plasma Techniques", Sohag University, Egypt (2021).

8- Projects from Scientific Research of King Faisal University:

- 1- No: 6033 "Structural and Transport Properties of the La: 214 Superconducting System".
- 2- No: 6021 "On the Two Band Model in Pure and Doped BSCCO Superconductors".
- 3- No: 6022 "Dielectric Measurements of Pure and Doped PVC in powder Form at Microwave Frequency".
- 4- No: 7034 "Melting Point Effect Superconductivity in Bi (Pb):2212 Superconductivity System".
- 5- No: 7048 "Impact of Bi₂O₃ addition on the Normal Properties of Bi_{3.4}Pb_{0.3}Sr₂Ca_{1.3-x} RE_xCu₂O_y Ceramics".
- 6- No: 7033 "Electrical Conductivity Study in Pure and Doped ZnO Ceramic System".
- 7- No: 7072 "On the Influence of Rare- Earth Substitution for Ca in Superconducting System".
- 8- No: 8071 "On the Absence of Superconductivity in Pr:123 Compounds".
- 9- No: 8070 "Order Parameter Dimensionality Study in Copper Oxide Superconductors".
- 10- No: 90069 "Enhancement of Electrical Conductivity by Al doped ZnO Ceramic".
- 11- No: 90080 "The Effect of Radiation on the Sn-Swt%Bi Solder Alloys".
- 12- No: 10089 " Correlation Between Sintering Temperature and Electrical Properties of Ceramic Varistor ".
- 13- No 10090: "Mechanical and Magnetic properties of ZnO/Fe₂O₃ Ceramic Varistors".

- 14- No: 10092 " Effect of Hole carriers On Excess conductivity of $Y_{1-x}Pr_x$:123 Superconductor".
- 15- No 130189 " Structural and Behavior of Flux Pinning in Sm Doped Bi:2212 Superconductors".
- 16- No 130179 " Effect of Y Addition on the Superconducting Properties of Bi:2212 Superconductors ".
- 17- No 140073 " An Investigation for Two Nonlinear Regions in the I-V Characteristics of ZnO Ceramic Varistors Doped by Bi₂O₃ Nanoparticles "
- 18- No 140082 " An Investigation for Ceramic Varistors from $Zn_{0.95}M_{0.050}$ (Mn = Zn. Co, Fe, Ni, Mn) Working with High Efficiency at High Temperature "

9- Projects awarded from King Abdl-Aziz City for science and Technology:

- 1- New Polymer-Carbon Nanotubes Solar Cells (2009 2011).
- 2- Fabrication and Characterization of ZnO Nanosize for Practical Sensors (2010 2012).
- 3- Development of Lithium ion Batteries Based on Nanocrystalline lithium Garnet Materials (2011 2013).
- 4- Enhancement of Figure of Merit of Diluted Magnetic Oxide Semiconductors Nanoparticles for Thermoelectric Generator" (2014-2016).

10- Scientific Supervisions:

- 1- Bander Mohamed Abass Buzaid, Mechanical and Transport Properties of Some Superconducting Materials, MSc Thesis in Physics, Physics Department, King Faisal University, Saudi Arabia (2009).
- 2- Ehood Abdullah, Structural and Nonlinear Properties of Some Ceramic Varistors, MSc Thesis in Physics, Physics Department, King Faisal University, Saudi Arabia (2010).
- 3- Wafa Abdel- Aziz, Effect of Rare Earth Element on Mechanical and Transport Properties of Bi: 2212 Superconductors, MSc Thesis in Physics, Physics Department, King Faisal University, (2013).

- 4- Mohamed Bisam Arafa Rased, Characterization of Some Biological samples using Physical Technique, MSc registration in Physics, Physics Department, Assiut University, (2014).
- 5- Amna Salah Mahmood, Studying Some Properties of High Temperature Superconductors", MSc registration in Physics, Physics Department, Assiut University, (2017).

11- Published Papers:

- 1- A.Abbas, T.Basha and <u>A. Sedky</u>, Rotation of D.C Discharge Plasma, International Conference on Phenomena in Ionized gases, (17-22) July (1997), Toulouse, France.
- 2-V.P.S.Awana, J.Horvat, S.X.Dou, <u>A. Sedky</u> and A.V.Narlikar, Impact of Pr on Structural, Superconduing and Magnetic properties of $Y_{(1-x)}$ Pr_(x) Ba Sr Cu ₍₃₎O₍₇₎ System, Journal of Magnetism and Magnetic Materials 182, L280 (1998).
- 3-**A.Sedky**, Anurag Gupta, V.P.S Awana and A.V.Narlikar, Structural and Superconducting Properties of $R_{(1-x)}Ca_{(x)}Ba_{(2)}Cu_{(3)}0_{(7)}$, Physical Review B,58, 18,12495 (1998).
- 4-A.Gupta, <u>A. Sedky</u>, S.B.Samanta, Md. Shahbuddin and A.V.Narlikar, Ac Susceptibility and STM Studies on Bi:2212 Superconducting Single crystals with Columnar Defects, NIR in Physics Research B.156, 35 (1999).
- 5-A.Gupta, R. Lal, <u>A. Sedky</u>, A.V.Narlikar and V.P.S. Awana ,Correlation Between Superconducting Critical Temperature and Normal State Resistivity Parameters From the Co-Doped ErBa ₍₂₎ Cu _(3-x-y) Zn _x Fe_y O₍₇₎, Physical Review B 61, 17, 1 (2000).
- 6-V.P.S Awana et. al , <u>A. Sedky</u>, A.V. Narlikar, Claudio A. Cardoso, O.F.De Lima, S.K.Malik, and W.B. Yelon , Effect of Zn Substitution on Para Ferro.Magnetic Transition in $La_{(.67)}$ $Ca_{(.33)}$ $Mn_{(1-x)}$ $Zn_{(x)}$ $O_{(3)}$ CMR Materials, J. Applied Physics, 87 , 5034 (2000).
- 7- V.P.S Awana et.al , <u>A. Sedky</u>, and A.V. Narlikar , Strong Ionic Size Dependence of Superconducting Transition Temperature T(c) in R Ba Sr $Cu_{(3)}O_{(7)}$, Modern Physics Letters B, 14, 10, 361 (2000).
- 8- V.P.S Awana et.al , <u>A. Sedky</u>, and A.V. Narlikar , Rare Earth Ionic Size Dependence of T(c) in R Ba Sr Cu₍₃₎O ₍₇₎ (R = Y, Dy, Nd and La) Superconducting Series , physica C, (341-348), 627 (2000).

- 9- V.P.S Awana et.al , <u>A. Sedky</u>, and A.V. Narlikar , Structural Studies on $Er_{(1-x)}Ca_{(x)}Ba_{(2)}Cu_{(3)}O_{(7)}$ Superconductors: Oxygen Vacancies in Cu-O₂ Planes , physica C, (341-348), 557 (2000).
- 10- V.P.S Awana et. al, <u>A.Sedky</u>, S.B. Samanta and A.V. Narlikar, Neutron Diffraction and STM Studies on $Er_{(1-x)}Ca_{(x)}Ba_{(2)}Cu_{(3)}O_{(7)}$ Superconducting System: Possible Oxygen Vacancies in Cu-O₂ Planes, Physica C 338, 197 (2000).
- 11-<u>A.Sedky</u>, Structural and Normal State Properties of Pr Ba $_{(2-x)}$ La $_{(x)}$ Cu $_{(3)}$ O $_{(7-y)}$ Compound with $(0.00 \le x \le 1.00)$, J. Physics : Condensed Matter 13, 4447 (2000).
- 12- V.P.S Awana et. al, <u>A.Sedky</u>, S.B. Samanta and A.V. Narlikar, Neutron Diffraction and STM Studies on Er_(1-x)Ca_(x)Ba₍₂₎Cu₍₃₎O₍₇₎ Superconducting System: Possible Oxygen Vacancies in Cu-O₂ Planes, Physica C 338, 197 (2000).
- 13-<u>A.Sedky</u>, On the Effect of Flux Creep in High Temperature Superconductors, Presented in International Workshop on Superconductivity and Magnetic Materials, Oita, Japan, 10-11 May (2001).
- 14- <u>A.Sedky</u> and M.I. Youssef, Low Field ac Susceptibility study of Critical Current Density in Eu: 123 and Bi: 2223 Superconductors, J.of Magnetism and Magnetic Materials, 237, 22 (2001).
- 15-Aunrag Gupta, <u>A.Sedky</u> and A.V.Narlikar, Effect of Argon Heat Treatment on Oxygenated Deficient $R_{(1-x)}C_{(x)}$ $Ba_{(2)}Cu_{(3)}O_{(7)}$ Superconducting System, R =(Y and Sm), J. Material Science, 37, 1557, (2002).
- 16-<u>A.Sedky</u> and A.M. Ahmed, Energy Gap of Bi -Pb- Sr-Ca-Cu Superconductors with (0.00 < x < 0.50), Chinese Journal of Physics 41, No. 5, 1 (2003).
- 17- M. El- Maghraby, <u>A.Sedky</u> and A. Yehia, The Effect of Zn Substitution on the Anomalous Resistance of La_{1-x} Ca_x Mn_{1-y} Zn_y O₃, Journal of low temperature physics 133, No. 516, 387 (2003).
- 18-<u>A.Sedky</u>, M.I. Youssif and S.M. Khalil, Ion Size Effect on Transport and Magnetic Properties of R: 123 high Temperature Superconductors, Presented in Physics meeting King Khaled University, Saudi Arabia (2003).
- 19-<u>A.Sedky</u>, On the Muller Study in High Temperature Superconductors, Journal of Magnetism and Magnetic Materials 277,293 (2004).
- 20-Anurag Gupta, <u>A.Sedky</u> and A.V. Narlikar, Suppression of Superconductivity and Normal State Electrical Transport in $Y_{(1-x)}$ $Pr_{(x)}$ Ba Sr Cu $_{(3)}O_{(7)}$ and $Y_{(1-x)}$ $Pr_{(x)}$ Ba₂Cu $_{(3)}O_{(7)}$ Systems, Phys. Status Solidi (b) 241, No. 4, 395, (2004).

- 21-<u>A.Sedky</u> and M.I. Youssif, Correlation between Superconducting Volume Fractionand Critical Current Density in Copper Oxide Superconducting Systems, Physica C 403, 297 (2004).
- 22 -S.M. Khalil and <u>A.Sedky</u>, Superconductivity at 100 K by Annealing in Bi: 2212 Superconducting System, Presented in Second Saudi Science Conference, King Abdulaziz University, Gada, Saudi Arabia (15-17) March (2004).
- 23-S.M. Khalil and <u>A.Sedky</u>, Annealing Temperature Effect on the Properties of Bi: 2212 Superconducting System, Physica B 357, 299 (2005).
- 24-<u>A.Sedky</u>, Structural and Superconductivity in Y-doped Bi (Pb):2223 Superconducting System, presented in Saudi Physics Meeting, Om Elkory Univ., Saudi Arabia, (2005).
- 25-<u>A.Sedky</u> and M. Abu-Abdeen and Abdel- Azaz Al-Moulhem Non-Linear I-V Characteristic in doped ZnO Ceramic Varistor System, Physica B 388, 266 (2007).
- 26- <u>A.Sedky</u>, M.I. Youssif, S.M. Khalil and Ayman Sawalha, On the Correlation Between Order Parameter, Superconducting volume fraction and Critical Current Density in R:123 Superconductors, Solid State Commun. 139, 126 (2006).
- 27-<u>A.Sedky</u>, Abdel- Azaz Al-Moulhem and Sobhy S Ibrahim, Structural and Transport Properties of the La: 214 Superconducting System, Smart Material and structures 15, N99 (2006).
- 28-<u>A.Sedky</u>, M.Abu-Abdeen and Ayman Sawalha, Electrical Conductivity Study in pure and Doped ZnO Varistor, Saudi Meeting for Physical Science, King Abdel Aziz City for Science and Technology, Riyadh, 18-20/12 (2006).
- 29-<u>A.Sedky</u>, Fluctuation- Induced Excess Conductivity in R_{1-x}Ca_x: 123 Superconductors, J. Low Temp. Phys. 148, 53 (2007).
- 30- **A.Sedky**, An Investigation for New Type of Varistor based on BSCCO System, Physica B 400,1, (2007).
- 31-<u>A.Sedky</u>, Melting point Effect Superconductivity in Bi: 2212 Superconductors, presented in Saudi Third Conference for Physical Science 10-13/3 (2007).

- 32- M. Abu-Abdeen, Abdel- Azaz Al-Moulhem and <u>A.Sedky</u>, Study of the Mechanical Behavior and Microhardness of Swelled Natural Rubber Loaded With Carbon Black, Journal of Applied Polymer Science 109, 3361 (2008).
- 33-<u>A.Sedky</u>, On the Influence of Rare- Earth Substitution for Ca in Superconducting System, Physica C 468,1041 (2008).
- 34- <u>A.Sedky</u>, Ayman Sawalha and Amal Yaseen, Electrical Conductivity study in Al doped ZnO Ceramic Varistors, Egyption J. Solids 31, 2, 205 (2008).
- 35- Abdullah Aljaafari, <u>A.Sedky</u> and Ayman Sawalha, Impact of Bi₂O₃ Addition on the Normal State and superconducting Properties of Bi_{3.4}Pb_{0.3}Sr₂Ca_{1.3-x} RE_xCu₂O_y Ceramics, J. Physics and Chemistry of Solids 69, 2919 (2008).
- 36- <u>A.Sedky</u>, Ayman Sawalha and Amal Yaseen, Enhancement of Electrical Conductivity by Al doped ZnO Ceramic Varistors, Presented in Saudi Conference for Physical Science 11-12/11 (2008).
- 37- Ayman Sawalha, Abdel- Azaz Al-Moulhem and <u>A.Sedky</u>, The Influence of Cu and Mg Dopant on the Microwave Properties of PVC, Ferroelectrics 386,118 (2009).
- 38-<u>A.Sedky</u>, The Impact of Y Substitution on the 110 K High T_c Phase in a Bi (Pb):2223 Superconductors, J. of Physics and Chemistry of Solids 70, 483 (2009).
- 39- Ayman Sawalha, M.Abu-Abdeen and <u>A. Sedky</u>, Electrical Conductivity Study in pure and Doped ZnO Ceramic System, Physica B 404, 1316 (2009).
- 40- <u>A.Sedky</u>, Ayman Sawalha and Amal Yaseen, Enhancement of Electrical Conductivity by Al doped ZnO Ceramic Varistors, Physica B 404, 3519 (2009).
- 41-<u>A.Sedky</u>, Effect of Melting Time on the Superconductivity in Bi_{1.7}Pb_{0.3}Sr₂CaCu₂O₈ Superconducting System, J. Alloys and Compounds 499, 238 (2010).
- 42-<u>A.Sedky</u> and E.El-Suheel, A Compartive Study Between the Effects of Magnetic and Nonmagnetic Dopants on the Properties of ZnO varistors, Physics Research International 2010, 1 (2010).
- 43-<u>A.Sedky</u> and Bander Abu- Ziad , New Investigation for T_c Depression by Ca in Y_{1-x} Ca_x: 123 Superconducting Systems, Physica C 470, 659 (2010).

- 44- <u>A.Sedky</u> and B.Abuziad , Enhancement of T_c by Ar Heat Treatment on Oxygenated Y1-x Cax : 123 Superconductors, International Conference on Condensed Matter and Materials Physics ICCM, 27-29 May, Italy (2011).
- 45-<u>A.Sedky</u>, T. A El- Trabolosy and S.B.Mohamed Correlation Between Sintering Temperature and Properties of ZnO Ceramic Varistors, J. of Physics and Chemistry of Solids 73, 505 (2012).
- 46- <u>A.Sedky</u> and Ayman Sawalha, On The Two Band Model in Pure and Doped BSCCO Superconductors, Thermoelectric Power, William P. Dempsey, Nova Science Publishers, Inc. New York, Chapter 8, page 237 (2012).
- 47-<u>A.Sedky</u>, On the Absence of Superconductivity in Pr: 123 Compounds, International Conference on Materials Science and Its Application, Taif, Saudi Arabia, (13-15) Feb. (2012).
- 48-<u>A.Sedky</u> and E.El-Suheel, Nonlinear Conduction Study in Pure and Doped ZnO Varistors, International Conference on Condensed Matter and Materials Physics, Netherlands (13-14) May (2012).
- 49-<u>A.Sedky</u> and Kh. A. Ziq, Mechanical and Magnetic properties of ZnO/Fe₂O₃ Ceramic Varistors, Superlattice and Microstructures 52, 99 (2012).
- 50- A.Sedky and E.El-Suheel, Structural and I-V Characteristics in Pure and Doped ZnO Varistors, Chinese Physics B 21, 11, 116103 (2012).
- 51- <u>A.Sedky</u> and W. Al-Batat, Effect of Y Substitution at Ca Site on Structural and Superconducting Properties of Bi: 2212 Superconductors, Physica B 410, 227 (2013).
- 52- <u>A.Sedky</u>, Oxygen Purity Effect Oxygen Deficiency by Argon Heat Treatment on Y:123 Superconductors, Physica B 410, 233 (2013).
- 53- <u>A.Sedky</u>, S.A. Amin and S.M. Khalil, Annealing Time Effect Fluctuation Induced Excess Conductivity in Bi (Pb):2223 superconductors, Chinese J of Physics 51, 4,778 (2013).
- 54- <u>A.Sedky</u>, Paraconductivity Study in $ErBa_2Cu_{3-x}M_x$ $O_{7-\delta}$ (M = Zn and Fe) Superconductors, Chinese Physics B 22, 11, 117401(2013).
- 55-<u>A.Sedky</u> and H. Mahfoz Kotb_, Possible Two Nonlinear Regions in the I-V Characteristics of ZnO Ceramic Varistors Doped by Bi₂O₃ Nanoparticles, Current Applied Physics 13, 2117 (2013).

- 56- <u>A.Sedky</u> and S.B. Mohamed, Effect of Temperature on the Electrical Properties of $Zn_{0.95} M_{0.05}O$ (M = Zn, Fe, Ni), Material Science Poland 32, 1, 16 (2014).
- 57-<u>A.Sedky</u> and W.Al-Batt, Possible High T_c in BSCCYO Superconductors, presented in International Conference for Young Scientists in Basic and Applied Science, Assiut University, 29-30/4/2014.
- 58- <u>A.Sedky</u>, Effects of Bi_2O_3 addition in micro and nano scale on the structural and electrical properties of $Zn_{1-x}Bi_xO$ varistors, Brazilian J physics 44, 4, 305-414 (2014).
- 59- Ayman Kamel and <u>A.Sedky</u>, New Possible Formulas for Irregular Arc Length Determination, European Journal of Academic Essays 1,9, 35 (2014).
- 60- Ayman Kamel and <u>A.Sedky</u>, Modification of Relativistic Lorentz Coefficient, European Journal of Academic Essays 1,9, 30 (2014).
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