

**1- Dr. Mahmoud HAMMAM**

(1) A.E.Hassanien, H.M.Hashim, G.Kamal,S.Soltan, A.M.Moustafa, M.Hammam and A.Ramadan. "Performance of TransparentConducting Fluorine – Doped Tin Oxide Films for Applications in Energy Efficient Devices". Int. J. Thin Fil.Sci. Tec. 5, No. 1, 55-65 (2016).

**2- Dr. Ayman Mohamed Mahrous**

(1) Transient variations of vertical total electron content over some African stations from 2002 to 2012 A. Shimeis, C. Amory-Mazaudier, R. Fleuryd, A. Mahrous, A. Hassan Advances in Space Research,DOI: 10.1016/j.asr.2014.07.038,2014

(2) Ionospheric disturbance dynamo associated to a coronal hole: Case study of 5-10 April 2010 Fathy, I.; Amory-Mazaudier, C.; Fathy, A.; Mahrous, A.; Yumoto, K.; Ghamry, E. Journal of Geophysical Research: Space Physics, Volume 119, Issue 5, pp. 4120-4133, 2014 DOI: 10.1002/2013JA019510

**3- Dr. Mohamed Nabil Yasseen**

- The Fourth Arab Conference on Astronomy and Geophysics & National Research Institute of Astronomy and Geophysics.20-23 October,2014.
- Study of Higgs Boson decaying to four muons ( $4\mu$ ) at  $\sqrt{s}=14$  TeV search for resonance in muon channel and its impact in gas .arab Journal of Nuclear Sciences and Applications.Nov.2014.
- Translation the book of "Particle Metaphysics" in philosophical science. Edited by: National translation centre.2015/2016.
- The Thermal Performance of a Locally Manufactured Concentrating Solar Power System and its Applications for Heat Energy Generation. Ph.D Published in: 2015.Fayoum University.
- The statistical analysis between instant solar radiation and instant temperature and predicting the solar radiation over different places in Egypt. Journal of Basic Sciences and applied Research\_3759\_15.1(1),5-22,2015.
- Thermal efficiency of a locally manufactured concentrating solar power system located in Fayoum region – Egypt. International Journal of Scientific &Engineering Research .Vol.6,Issue 11,925-930,Nov.2015. <http://www.ijser.org>
- GEM Performance Studies in CMS experiment with Four Muons Final State. Arab J. of Nucl.Scien.and Applic.2015.
- Gas Detectors Performance in CMS and Excited Muon Search Feasibility Study at 14 TeV. Arab J.of Nucl.Sciences and Applications.2015.

### **3- Dr. Mohammed El-sayed Elnagdy**

A- Sensibility of grey particle production system to energy and centrality in 60 A and 200 A GeV  $^{16}\text{O}$ -Nucleus interactions, A. Abdelsalam , M.S.El-Nagdy, B.M.Badawy, W. Osman and M. Fayed, Int. J. Modern Physics E 26, 6, 1670034 (2016), doi:10.1142/S0218301316500348

- B. Assessment of DNA damage in Ehrlrich carcinoma after treatment with doxorubicin encapsulated in nanoscales thermosensitive liposomes in combination with localized hyperthermia, Monira M.Rageh, Medhat W.Shafaa, Mona R.Elhefnawy and Mohamed S.El-Nagdy, Gen. physiol. Biophys. 35, 311 (2016), doi: 10.4149/gpb\_2016005
- C. Electrical and Mechanical Properties of Irradiated Polycarbonate Using Argon Ion Beam, M.S.El-Nagdy, A.M. Abdel Raheem, A.H.Ashour, M.I.A.Abdel Maksoud, Int.J.Curr.Microbiol.App.Sci 5(3), (2016), doi:10.20546/ijcmas
- D. Simulation of Fusion Evaporation of compound Nuclei Created in Ultra Intense Laser Interaction with Carbon Targets, Lotfia El Nadi, M. Ramadan, Mohamed Ezzat, M. El Nagdy and A.Nasr A. El Fetouh, Int.J. Research in Engineering and Science (IJRES), ISSN (online): 2320-9364, ISSN (print): 2320-9356, www.ijres.org 4, 5 May, 29 (2016).
- E. Target Production in forward and backward hemispheres in the interactions of  $^{28}\text{Si}$ -EM at 14.6 A GeV, A.Abdelsalam, M.S.El-Nagdy, A.M. Abdalla and A. Saber, Int. J. Modern Physics E, 24, 11, 1550084 (2015) doi:10.1142/S0218301315500846
- F. Effect of Infrared Radiation on Retinal Rhodopsin and The Possible Protective Role of Antioxidants, M.S.El-Nagdy, M.M.Gamal and K.S.Mohamed, Isotope & Raid. Res., 47(3), 305-314 (2015).ISSN 0021-1907, INIS ISRRAC EG
- G. Study The Effect of X-Ray Radiation on some Polymeric Films and its possible use in Radiation Dosimetry, M.S.El-Nagdy, M.A.El-Ahdal, M.W.Shafaa and M.M.Hassan,Accepted in Isotope and Radiation research 20<sup>th</sup> March 2016
- H. Effect of Extracted Broad Beam on Target Material, A.M.Abdel Reheem, A.H.Ashour, M.S.El-Nagdy and M.I.A.Abdel Maksoud, Accepted in Egyptian Society of Nuclear Sciences and Applications (ESNSA), 10<sup>th</sup> June 2015
- I. Identification of radiation effects on Carcinogenic food estimated by Ames test, Marwa Afifi, Ibrahim Eid, Rafaat Zaher, Hussein Abd El-Karim, Ahmed Abd El-Karim and Mohamed El-Nagdy , Accepted in The Egyptian Society of Nuclear Sciences and Applications (ESNSA) 2015.
- J. Emission characteristics of fast target protons in ultra relativistic  $O^{16}$ -Nucleus collisions ,A abdelsalam , M.S.El-Nagdy , N.Rahed ,B.M.Badawy , W.Osman and M.Fayed,Can.J.phys.,93,361 (2015).

- K. Evaluation of the dynamic conformal arc therapy in comparison to conformal radiation therapy in radio therapy patients ,A.Mahmoud , Ehab M.attalla ,M.El-sayed El-Nagdy and Gihan S'. Kamal , Accepted in Isotope and radiation Research 46(1),117(2014).
- L. Effect of physical parameters in measuring poisonous and radio nuclides in Ground water using ICP-OES : case study in southwest Sinai , Egypt. ,M.S.El-Nagdy,B.H.Ali,A.F.Elwakil and K.A.Gaber , Accepted in Arab Journal (2014).
- M. Study of the parameters affecting Radon gas flux from the stream sediments at seilaArea ,South Eastern Desert, Egypt ., Y.A.Abdel-Razek , M.S.Masoud , M.Y.Hanafi and M.S.El-Nagdy , Arab J of Nuclear science and application 47(4) , 14 (2014);Environ Earth Sci.Doi 10.1007/S12665-014-3958-2 Springer.
- N. Studies on the effect of ICP-OES operating condition on Radioactive and Toxic Element measurements on ground water , A.F.ElWakil ,M.S.El-Nagdy,B.H.Ali , K.A.Gaber ,  
Accepted in Int. J of Research in Engineering and Technology (2014).

## **5- Dr. Said Hussien Mohamed**

E.R. Shaaban, M.El-Hagary, M.Emam-Ismail, A.M.AbdElnaeim, *S.H.Moustafa*, A.Adel, Optical Characterization of Polycrystalline ZnSe<sub>1-x</sub>Tex Thin Films Using Variable Angle Spectroscopic Ellipsometry and Spectrophotmetry Techniques, Materials Science in Semiconductor Processing 39, 735–741 (2015)

## **6- Dr. A.Abd- El Mongy**

Effect of phase abundance and grain size on ionic conductivity of solid state LATP electrolyte. Int.J. of current research, V.8, Issu 03,PP.28385-28388, March 2016, Zaki A.A,Hashem H.M.,Soltan S., Abd El-Mongy A. and RamadanA.A.

## **7- Dr. Abdul-Hamid Hussein Abdul-Hamid El-Kateb**

- a) I. Badawy , A. H. EL-Kateb, R. A. El-Tayebany "Development of Simple Nondestructive Assay Technique for Verification of Nuclear Material in Cylinders" , Symposium on International Safeguard Linking Strategy Implementation and People (IAEA) Vienna, Austria 20 - 24 October (2014)
- b) A. Hassan<sup>1</sup> , A. M. Mahrous<sup>1</sup> , A. H. El-Kateb<sup>1</sup> , A. A. Abdelalim<sup>1,2</sup>, "Phenomenological Study of W' Boson Decaying to Muon and Missing Transverse

Energy at 14 TeV, accepted to appear in Arab Journal of Nuclear Science and Applications (2015).

## 8- Dr. Magdy El-Hagary

### 1- M. Emam-Ismail, E. R. Shaaban, M. EL-Hagary,

*A new method for calculating the refractive index of semiconductor thin films retrieved from their transmission spectra, Journal of Alloys and Compounds 663, pp. 20-29 (2016)*

### 2- D. Prakash, A. M. Aboraia, M. El-Hagary, E. R. Shaaban, K. D. Verma

*Determination of the optical constants and film thickness of ZnTe and ZnS thin films in terms of spectrophotometric and spectroscopic ellipsometry Ceramics International 42 (2), pp. 2676-2685 (2016)*

### 3- E. R. Shaaban, M. Emam-Ismail, G. Abbady, D. Prakash,, M. El-Hagary, N. Afify, K. D. Verma,

*Investigation of optical properties of amorphous Ge<sub>15</sub>Se<sub>85-x</sub>Cu<sub>x</sub> thin films using spectroscopic ellipsometry Solid State Sciences 52, pp. 65-71 (2016)*

### 4- E. R. Shaaban, M. El-Hagary, E. S. Moustafa, H. S. Hassan, Y. A. M. Ismail, M. Emam-Ismail, A. S. Ali

*Structural, linear and nonlinear optical properties of co-doped ZnO thin films*

**Applied Physics A: Materials Science and Processing 122 (1), 20, pp. 1-10 (2016)**

### 5- M. M. El-Nahass, M. Emam-Ismail, M. El-Hagary

*Structural, optical and dispersion energy parameters of nickel oxide nanocrystalline thin films prepared by electron beam deposition technique*

**Journal of Alloys and Compounds 646, 34377, pp. 937-945 (2015)**

### 6- E. R. Shaaban, M. El-Hagary, M. Emam-Ismail, A. M. Abd Elnaeim, S. H. Moustafa, A. Adel

*Optical characterization of polycrystalline ZnSe<sub>1-x</sub>Tex thin films using variable angle spectroscopic ellipsometry and spectrophotmetry techniques*

**Materials Science in Semiconductor Processing 39, 2821, pp. 735-741 (2015)**

**7- J. H. Al-Zahrani, M. El-Hagary, A. El-Taher**

*Gamma irradiation induced effects on optical properties and single oscillator parameters of Fe-doped CdS diluted magnetic semiconductors thin films*

**Materials Science in Semiconductor Processing 39, pp. 74-78 (2015)**

**8- M. Emam-Ismail, M. El-Hagary, E. R. Shaaban, A. Matar, A. El-Taher**

*Influence of  $\gamma$ -irradiation on optical parameters of electrom beam evaporated  $ZnSe_{1-x}Te_x$  nanocrystalline thin films.*

**Radiation Effects and Defects in Solids 169(1), 62-71 (2014)**

**9- Musa Saad M.-E., M. El-Hagary**

*Structural, electronic and magnetic properties of Mo(4d)-based complex proviskites  $Ba_2MMoO_6$  ( $M=Cr$  and  $Fe$ )*

**J. Magn. Magn. Mat. 360, 229-233 (2014)**

**9. Dr. Sherif Yehia**

1-Investigating half-metalllicity in PtX<sub>2</sub>Sb alloys (X=V, Mn, Cr, Co) at ambient and high pressure Enas L. Habbak, Reham M. Shabara, Samy H. Aly, **Sherif Yehia** **Physica B: Condensed Matter**, Volume 494, 2016, Pages 63-70 (2016)

2- “Magnetization curves and probability angular distribution of the magnetization vector in  $Er_2Fe_{14}Si_3$ ” Hala A. Sobh, Samy H. Aly, Reham M. Shabara, **Sherif Yehia** **Journal of Magnetism and Magnetic Materials**, Volume 398, 15 January 2016, Pages 230-234 (2016).

3- “First-principles study of magnetic, electronic, elastic and thermal properties of  $GdFe_2$  ”Gomaa M. Elalfy, Reham M. Shabara, Samy H. Aly, **Sherif Yehia** **Computational Condensed Matter**, Volume 5, December 2015, Pages 24-29 (2015).

4- “On the orientation of the magnetization vector and the associated entropy in  $Nd_2Fe_{14}B$ ”.Hala A. Sobh, Samy H. Aly, Reham M. Shabara, **Sherif Yehia** **Journal of Magnetism and Magnetic Materials**, Volume 381, 1 May 2015, Pages 70-82 (2015).

## **10. Dr. Soltan Soltan**

Higher critical current density achieved in Bi-2223 High-T c superconductors  
MS Shalaby, HM Hashem, TR Hammad, LA Wahab, KH Marzouk, . , S Soltan..  
Journal of Radiation Research and Applied Sciences

2016 Performance of Transparent Conducting Fluorine-doped Tin Oxide Films for Applications in Energy Efficient Devices

AE Hassanien, HM Hashem, G Kamel, S Soltan, AM Moustafa, ...  
Int. J. Thin. Fil. Sci. Tec 5 (1), 55-65

2016 Preparation of a ferromagnetic barrier in  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$  thinner than the coherence length

S Soltan, J Albrecht, E Goering, G Schütz, L Mustafa, B Keimer, ...  
Journal of Applied Physics 118 (22), 223902

2015 Investigation of the structural, optical and magnetic properties of  $\text{CuO}/\text{CuFe}_2\text{O}_4$  nanocomposites synthesized via simple microemulsion method

MM Rashad, S Soltan, AA Ramadan, MF Bekheet, DA Rayan  
Ceramics International 41 (9), 12237-12245

2015 Laser induced infrared spectral shift of the  $\text{MgB}_2/\text{Cr}$  superconductor films

NS AlZayed, IV Kityk, S Soltan, AM El-Naggar, M Shahabuddin  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 136 ...

2015 Growth of Stable Bilayer  $\text{CrO}_2/\text{MgB}_2$  Films by Pulsed Laser Deposition

NS Alzayed, S Soltan, M Shahabuddin, A El-Naggar, IV Kityk, SE Qaid, ...  
Journal of Superconductivity and Novel Magnetism 28 (2), 387-390

2015 Stabilization of the dissipation-free current transport in inhomogeneous  $\text{MgB}_2$  thin films

S Treiber, C Stahl, G Schütz, S Soltan, J Albrecht  
Physica C: Superconductivity and its Applications 506, 1-5

2014 Structural and electronic properties of epitaxial  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}\text{-La}_0.67\text{Ca}_0.33\text{MnO}_3$  bilayers grown on  $\text{SrTiO}_3$  (110) substrates

L Mustafa, N Driza, S Soltan, M Le Tacon, HU Habermeier, B Keimer  
Physica C: Superconductivity 505, 70-73

2014 Role of  $\text{MgB}_2/\text{Cr}_2\text{O}_3$  nano-interfaces in photoinduced nonlinear optical treatment of the  $\text{MgB}_2$  superconducting films

NS AlZayed, IV Kityk, K Ozga, AO Fedorchuk, S Soltan, M Shahabuddin, ...

Physica E: Low-dimensional Systems and Nanostructures 63, 180-185

32014 □ Laser stimulated kinetics effects on the phase transition of the ferromagnetic/superconducting MgB<sub>2</sub>(CrO<sub>2</sub>) bilayer thin films

NS AlZayed, IV Kityk, S Soltan, A Wojciechowski, AO Fedorchuk, ...

Journal of Alloys and Compounds 594, 60-64

52014 □ Revealing the atomic and electronic structure of a SrTiO<sub>3</sub>/LaNiO<sub>3</sub>/SrTiO<sub>3</sub> heterostructure interface

Z Zhang, S Soltan, H Schmid, HU Habermeier, B Keimer, U Kaiser

Journal of Applied Physics 115 (10), 103519

12014 □ Photoinduced operation and diagnostic of superconductivity in the MgB<sub>2</sub> films

IV Kityk, S Soltan, NS AlZayed, R Viennois, C Reibel, M Shahabuddin, ...

Journal of Materials Science: Materials in Electronics 24 (11), 4585-4589