

Curriculum vitae

Asem El Sayed Metawa Ali

Associated professor - physics Department- Faculty of Science - Baha University,
Saudi Arabia from 17/10/2017

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I-Personal Information's

Name : Asem El Sayed Metawa Ali
Gender : Male
Nationality : Egyptian
Date of Birth : 19 /11/ 1979
Marital Status: Married
Mobile : (0537823640)

II-Education

Degrees : Ph .D (2012) from Al Azhar University
Specialization : (Electrical characteristics of gas discharge and some of
Its Applications)
Degrees : M. Sc (2008)) from Al Azhar University
Specialization : (Electrical characteristics of gas discharge and some of
Applications)
Degree : Bs.C of science (Excellent with Honor 2003)) from Al Azhar
University .
Specialization : special physics

III-Academic Experiences

-Demonstrator – faculty of science - Al Azhar University , Egypt from 14/7/2004
-Assistant lecturer- faculty of science - Al Azhar University , Egypt from 22/9/2008
- lecturer- faculty of science - Al Azhar University , Egypt from 21/5/2012

IV-Teaching Experiences Crosses

- Electrical and magnetism
- General physics 1,2
- Thermal and thermodynamics
- Electronics 1 , 2

- Circuits of alternated current**
- Solid State Physics**
- Plasma physics and gas discharge**
- Modern physics**
- Thin film deposition**
- quantum mechanics 2**
- nuclear physics 2**

V-Techniques

- **Good knowledge, analysis and characterization of plasma by the following techniques single probe , double probe , magnetic probe, faraday cub and optical emission spectroscopy**
- **analysis and characterization of the samples by the following techniques:FTIR, XRD, DTA , UV-VIS Spectrophotometer, TEM, SEM,**
- **training course in Quality Assurance :-**

Student Evaluation - Effective Presentation Skills – Self institution Assessment – Curriculum Mapping and Course Description – Research Design Skills

VI-Conferences

- international conference on physics ,material science and engineering held on luxor ,Egypt 23-25March 2017**
- An organizer at the first Arab Conference of Plasma Physics – Cairo-2005**
Shared and participate in Workshop , Training school and the international conference of Plasma physics held in Egypt -2005 under the supervision of (AUCPT)
- An organizer at the first Arab Conference of Plasma Physics – Cairo-2007**
Shared and participate in Workshop, Training school and the international conference of Plasma physics held in Egypt -2007 under the supervision of (AUCPT)
- Participate in ICPP 2008 in triam.kyushu- University Japan by Abstract with title name " Electrical Characteristics of DBD and Bioapplications "**
(article in press)

VII-Publications

1- Abdou Garamoon, Asem Metawa, Nasser N. Morgan "Coplanar Atmospheric Pressure Dielectric Barrier Discharge for Ozone Production" *Al-Azhar Bull. Sci* (2009)

2- Abdou Garamoon , Asem Metawa, Nasser N. Morgan " Direct and Indirect Plasma Yeast Sterilization " *FIZIKA A* (2010)

3- Khairy M. Tohamy , Islam E. Soliman , Asem E. Motawa , Mohamed A. Aboelnaser "synthesis , characterization and bioactive study of borosilicate sol-gel glass " *Nature and science* vol. 13 , N.18 (2015)

4-Mohamed El-GOHARY1*, Asem METAWA" Cleaning of architectural bricks using RF plasma "Metallic Stains " *INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE* Volume 7, Issue 3, July-September 2016

Publications in 2018

5 - A.E.Metawa, E. F. Kotp, A.M. Hassan and E. R. Shaaban " Optical Emission Spectroscopy Study of DC Ar - N₂ Hollow Cathode Discharge Used For Thin Films Deposition" *International Journal of New Horizons in Physics* 2018

6 - Islam E. Soliman, Asem E. Metawa, Mohamed A. Aboelnasr, and Khairy M. T. Eraba "Surface treatment of sol-gel bioglass using dielectric barrier discharge plasma to enhance growth of hydroxyapatite" *Korean Journal of Chemical Engineering* . December 2018, Volume 35, Issue 12, pp 2452–2463

7- E. R. Shaaban, A. E. Metawa, A. Almohammedi, H. Algarni A. M. Hassan, Gomaa A. M, A. Ashour " Investigation of structural and optical properties of near surface of CdTe film induced by nitrogen plasma immersion ion implantation" *Materials Research Express* MRX2-100813.R1 2018

8- A.E. Metawa, F.M. El-Hossary, M. Raaifc,d, M. SalahEl-Deen, A.A. Abd El-Moula "Langmuir probe and optical emission spectroscopy studies for RF magnetron sputtering during TiON thin film deposition" *Chinese Journal of Physics* 68 (2020) 168–177

9- A.M. Hassan a,*, F. Diab b, E.F. Kotp a, G. Al-Kashef b, E.R. Shaaban a, A.E. Metawa "Implantation of Cu onto ZnTe thin film using plasma focus device for optoelectronic applications " *Optical Materials* 117 (2021) 111182

Supervising on Thesis

1-"Study the physical and biocompatibility properties of glass and glass

ceramic with sol-gel method"

Master thesis on biophysics 2014 by Mohamed A. Aboelnaser

2- " Study of pulsed hollow cathode discharge and thin film deposition "

Master thesis on plasma physics and applications 2014 by Mohamed mahmoud