Somia Awad

Physics Department, Faculty of Science
Minia University Minia Egypt 61111

E-mail: somiaawad@mu.edu.eg
Website: https://scholar.google.com.eg/citations?user=kO-W160AAAAJ&hl=en
Phone: 0096654188240

WORK EXPERIENCE

Umm Alqura University , Alqunfudaha University College — Sep 2013 — Present

Assistant Professor of applied nuclear Physics

- Built strong rapport with students through class discussions and academic advisement.
- Performed research to be utilized in academic writing for publication.
- Maintained classroom structure and student engagement.
- Collaborated with faculty members on research project.
- Planned appropriate and engaging lessons for both classroom and distance learning applications.
- Successfully improved student participation in the classroom through integration of creative role-playing exercises.
- Facilitated group sessions and provided one-on-one support.

Minia University Physics Department — Jan 2000 — Present

Assistant professor of applied nuclear physics

- Built strong rapport with students through class discussions and academic advisement.
- Performed research to be utilized in academic writing for publication.
- Maintained classroom structure and student engagement.
- Collaborated with faculty members on research project.
- Planned appropriate and engaging lessons for both classroom and distance learning applications.
- Successfully improved student participation in the classroom through integration of creative role-playing exercises.
- Facilitated group sessions and provided one-on-one support.

Chemistry Department University of Missouri Kansas city — Oct 2009 — Oct 2011

Research Assistant

Participating and doing in research in Different in the Slow Positron beam Lab under supervision of Dr. Jerry Jean with the following responsibilities
1- Publishing a number of papers in polymeric nanocomposites
2- Documented procedures and results with a high degree of accuracy and precision
3- Recorded data and maintained source documentation following good documentation practices
4- Performed statistical, qualitative and quantitative analysis
5- Prepared materials for reports, presentations and submission to peer-reviewed journal publications
6- Supervised undergraduate students working on research projects.

QUALIFICATIONS

I have obtain a number of certifications
1- ICDL
International computer driving licence

2- Radiation safety regulations Certificate to work in Nuclear Labs from Radiation safety unit in University of Missouri Kansas city

3- Certificate of how to deal with chemical hazard materials from Radiation safety unit in University of Missouri Kansas city

4- I have obtained around 20 certificate from the accreditation and quality unit from Minia University in different quality subjects

EDUCATION

BS.C of Science — 1996 — 2000

Minia University

I have obtained BS.C of Science majored in Physics

Master of Physics — 2003 — 2006

Minia University

I have obtained master degree of physics with title:
Study polymeric materials using positron annihilation technique

Ph.D of Physics — 2009 — 2012

Minia University

I have obtained my Ph.D in physics majored in applied nuclear physics and its its applications in material science
with title: Study new materials using positron annihilation spectroscopy

INTERESTS

RESEARCH FIELDS

I'm interested in studying and developing nanomaterials for fuel cell applications in addition to study the polymeric nanocomposites using Positron annihilation techniques.

MATERIALS SCIENCE PEM FUEL CELLS POLYMER SCIENCE, ENGINEERING AND TECHNOLOGYPOLYMERS, POLYMER COMPOSITES AND NANOMATERIALS

**** Publons Verified Record PREPARED BY PUBLONS ON NOVEMBER 18TH 2018**

**** Somia Sayed Fareed Awad https://publons.com/a/1410853**

**** I Have Performed 1 review for journals including Polymers for Advanced Technologies; placing in the 32nd percentile for verified review contributions on**

Publons up until November 2018.

**** I have been chosen to be an associate editor of the Academic Journal of polymer Science https://juniperpublishers.com/ajop/editorialboard.php**

1- I work in teaching physics courses to university students including introductory physics courses to nuclear and radiation physics.

2- I have organized teaching professional with more than 20 years of instructing expertise. Great enthusiasm for teaching complex science concepts to students. Hardworking Teacher familiar with planning and implementing lessons in physics. Excellent communication and planning skills.

Language skills
Good speaking writing and reading of English
Mother language Arabic

Hobbies
Reading

REFERENCES

Dr. David Vanhorn

Chemistry department University of Missouri Kansas city USA
vanhornd@umkc.edu

Dr. Jerry Jean

Chemistry department University of Missouri Kansas city USA
jeany@umkc.edu

PUBLICATIONS

I have a list of publications

1- Free volume evolution in polyoxymethylene studied by positron annihilation spectroscopy, EE Abdel-Hady, HFM Mohamed, SS Fareed
Radiation Physics and Chemistry 76 (2), 138-141,2007

2- Temperature dependence of the free volume holes in polyhydroxybutyrate biopolymer: A positron lifetime study EE Abdel-Hady, HFM Mohamed, SS Fareed, physica status solidi c 4 (10), 3907-3911, 2007

3- Positron Annihilation Spectroscopy as a Novel Interfacial Probe for Thin Polymeric Films and Nano-Composites, S Awad, H Chen, G Maina, LJ Lee, X Gu, YC Jean, APS Meeting Abstracts, 2010

4- Positron Annihilation Studies In Polymer Nano-Composites
HM Chen, S Awad, YC Jean, J Yang, LJ Lee, AIP Conference Proceedings 1336 (1),

444-447,2011

5 - Free Volumes, Glass Transitions, and Cross-Links in Zinc Oxide/Waterborne Polyurethane Nanocomposites S Awad, H Chen, G Chen, X Gu, JL Lee, EE Abdel-Hady, YC Jean ,Macromolecules, 2011

6 - Determination of Free-Volume Properties in Polymers Without Orthopositronium Components in Positron Annihilation Lifetime Spectroscopy, KS Liao, H Chen, S Awad, JP Yuan, WS Hung, KR Lee, JY Lai, CC Hu, ...Macromolecules, 2011

7- Characterizing free volumes and layer structures in polymeric membranes using slow positron annihilation spectroscopy
YC Jean, H Chen, S Zhang, H Chen, LJ Lee, S Awad, J Huang, CH Lau, ...
Journal of Physics: Conference Series 262 (1), 012027,2011

8 - Positron Annihilation Spectroscopy of Polystyrene Filled with Carbon Nanomaterials, S Awad, HM Chen, BP Grady, A Paul, WT Ford, LJ Lee, YC Jean, Macromolecules, 2012

9 - Tailor-made thin film nanocomposite membrane incorporated with graphene oxide using novel interfacial polymerization technique for enhanced water separation,GS Lai, WJ Lau, PS Goh, AF Ismail, YH Tan, CY Chong, ...,Chemical Engineering Journal 344, 524-534, 2018

10- Characterization and evaluation of commercial poly (vinylidene fluoride)-*g*-sulfonatedPolystyrene as proton exchange membrane, EE Abdel-Hady, MO Abdel-Hamed, S Awad, MFM Hmamm, Polymers for Advanced Technologies 29 (1), 130-142, 2018

11- Free volume properties of the zinc oxide nanoparticles/waterborne polyurethane coating system studied by a slow positron beam
S Awad, A Al-Rashdi, EE Abdel-Hady, YC Jean, JD Van Horn
Journal of Composite Materials, 0021998318809526, 2018

MEMBERSHIP

I have been a member in
1- American Chemical Society ACS
2- American Physical Soceity APS
3- Egyptian Nuclear Society
4- member in the committee of choosing the research assistant and teaching assistant in physics department Alqunfudaha Unversity college girls branch Umm Alqura University

4- member of the examinations committee tasks in Alqunfudaha University college girls branch Umm Alqura University

- **Other IDs**

Scopus Author ID: 36815648000 (https://www.scopus.com/authid/detail.uri?authorId=36815648000)
ResearcherID: F-8071-2018 (http://www.researcherid.com/rid/F-8071-2018)

Publons:

SUMMARY OF RESEARCHER IDS

ResearcherID: F-8071-2018
Other Names: Somia S. Fareed
URL: http://www.researcherid.com/rid/F-8071-2018
Subject:
Materials Science; Nuclear Science & Technology; Physics; Polymer Science
Keywords:
polymer nanocomposites, ; nanostructural materials; fuel cell catalyst

Publons: https://publons.com/a/1410853

ORCID: http://orcid.org/0000-0003-3300-7551
My Institutions
Primary Institution:
Minia university faculty of science
Physics
Role: Faculty
Joint Affiliation:
Umm Al Qura University faculty of applied science
Dept: physics
Role:Faculty