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Objectives

To contribute scientifically to the advancement of life.

Education

Ph. D Degree, Physics – Full- time Study (January 2020)

Sultan Qaboos University, Title: *Fabrication and Optimization of Monolayer CVD Graphene and the Study of its Potential Applications.*

Master's Degree, Physics – Full- time Study (August 2011)

Sultan Qaboos University, Title: *Assessment of Gamma-Emitting Radionuclides in Soil and Beach Sediments: Musandam Governorate.* Lab research at the Food and Water Laboratories Center (FWLC), Ministry of Regional Municipalities & Water Resources, Oman.

Bachelor of Education. Physics – Full- time Study (1998)

Sultan Qaboos University, bachelor's in education, Physics-Math, Major: Physics.

GENERAL DIPLOMA (1994)

Abu Obeida School Grades 10-12

Experience

Assistant Professor in Physics – (Joined 15 September 2024- Present)

A'sharqiyah University, College of Applied and Health Sciences, Department of Basic Sciences, in Ibra, North A'Sharqiyah.

- Teaching the following courses:
 - * General Physics (PHYS 101E)
 - * Physics I (PHYS101)
 - * Physics 1 Lab (PHYS 181)

A member in: * Teaching and learning committee.

* Community Service.

Assistant Professor in Physics – Part- time (September 2023- July 2024)

A'sharqiyah University, College of Applied and Health Sciences, Department of Basic Sciences, in Ibra, North A'Sharqiyah.

- Postdoctoral Researcher in TRC funded project- BFP/RGP/ICT/23/032. The main role is synthesis and developing new magnetic nanomaterials, characterization, and contribution in the scientific publications. (Feb 2024 – Present)
- Teaching the following courses:
 - * General Physics (PHYS 101E), with weekly total contact hours of 16.
 - * Teaching Physics Electricity and Magnetism (PHYS 201E), with weekly total contact hours of 12.
 - * Teaching Physics (PHYS 182), with weekly total contact hours of 2 hours.
- Coordinator and moderator for some physics courses.
- Contributing in:
 - Developing Physics Lab experiments.
 - Seminar workshops according to the college plans.
 - Examination invigilation for different courses in the college.

* Getting excellent impression from peer observers and HoD, 95 out of 100.

* Students' feedback was between 4 to 4.5 out of 5 for all taught sections.

* Students' achievements grades showed a good fit with Gaussian distribution which indicates a good match between students' achievements and assessment criteria.

Postdoctoral researcher, – Full- time (March 2021- April 2023)

Sultan Qaboos University. College of Science, Physics Department. Member in a strategic research grant project 'Developing Commercially Viable Graphene Based Technologies for selected energy and environmental application in Oman' (SR/SCI/PHYS18/01)

- Advising two research assistants.
- Advising final year project for physics students
- Synthesizing 2D materials using CVD and sol-gel method.
- Characterizing 2D materials using SEM, EDS, TEM, XRD and XPS.
- Research writes up and publication.
- Patents documentation write-up.

Research Assistant, – Full- time- Secondment from Ministry of education- (March 2020- March 2021)

Sultan Qaboos University. College of Science, Physics Department. Main member in research work related to a strategic grant project 'Developing Commercially Viable Graphene Based Technologies for selected energy and environmental application in Oman' (SR/SCI/PHYS18/01)

- Advising final year project for physics students
- Synthesizing 2D materials using CVD and sol-gel method.
- Characterizing 2D materials using SEM, EDS, TEM, XRD and XPS.
- Research writes up and publication.

Mathematics Lecturer for Sciences (FPMT0108), – Part- time- (Sep 2018 – Dec 2018)

Sultan Qaboos University. Center for Preparatory Studies.

Tutorial Lecturer General Physics for Engineering. (Oct 2016 – Dec 2016)

Sultan Qaboos University, College of Science, Physics Department.

Senior Physics Supervisor, (September 2014 – January 2016)

Ministry of education, General Directorate of Education in AdDakhiliyah Governorate.

- Supervising physics, chemistry and biology supervisors in AdDakhiliyah Governorate.
- Analyzing and reporting students' achievements in science courses.
- Monitoring good teachers and teachers who need support and assistance.
- Implementing professional development plans for science teachers.
- Contributing in test preparation committees for various types of general diploma certificate exams.
- Chairing test marking of physics of in AdDakhiliyah marking center and auditing general diploma continuous assessments.
- Contribution in the writing of annual job evaluation reports.
- Contributing in physics teachers' recruitment interviews committee.

Lecturer PHYSI100, – Part- time- (January 2014 – April 2014)

Nizwa College of Technology (NCT), Engineering Department.

Physics Supervisor – (May 2003 – September 2014)

Ministry of education. General Directorate of Education in AdDakhiliyah Governorate.

- Supervising physics teachers in AdDakhiliyah Governorate.
- Monitoring good physics teachers and teachers who need support and assistance.
- Implementing professional development plans for physics teachers.
- Contributing in test preparation committees for various types of general diploma certificate exams.
- Contribution in the write-up of annual job evaluation report.
- Reporting on the implementation of physics curricula in the governorate.
- Contributing in teachers' recruitment interviews committee.
- Contributing in test moderation committees for various types of general diploma certificate exams.
- Contributing in test preparation committees for international exams in physics.
- Main representative member of Al Dakhiliya Governorate in exams reform project committee in Muscat.
- Preparation and moderation of general science exams for grades (5-10).

Physics Teacher, (September 2000 – May 2003)

Abu Obeida School Grades (10-12).

- Teaching physics for grade 11 and 12
- Contributing in exam reform project committee.

Science Teacher, (September 1998 – September 2000)

Moosa Bin Ali School, Grades (5-10)

Community Service

International curriculum expert (Sep 2024 – Present).

Future Pioneers Private School (Part-time Consultant).

Science - Math HoD (Sep 2023 – Present).

Future Pioneers Private School (Part-time Consultant).

Leadership of Physics Postgraduate Simmers (Sep 2017 – Dec 2018).

Sultan Qaboos University. College of Science, Physics Department.

Patents

1- GRAPHENE BASED ELECTRON-HOLE PUDDLES FOR WATER PURIFICATION

Application

Publication/Patent Number: WO2021210994A1

Publication Date: 2021-10-21

Application Number: OM2020/050010

Filing Date: 2020-09-27

Inventor: Al-kamiyani, Salim and Mohiuddin, Tariq

Assignee: SULTAN QABOOS UNIVERSITY

IPC: B01D25/26

2- Graphene fabrication using microchannels.

(April 17, 2019, **Clarivate** ref. no.: 17709, Filing Date: 27/10/2020. Intellectual property at the Ministry of Commerce and Industry OM/P/2020/00396)

3- Application for patent No: 3

Utilization of date palm tree waste in carbon industries.

Publications and Conferences

- Enhancing the Thermal Stability of Skyrmion in Magnetic Nanowires for Nanoscale Data Storage, *Nanomaterials* **2024**, 14(21), 1763; <https://doi.org/10.3390/nano14211763>

- Crude oil-water separation with the aid of carbon-based materials, *Mater. Res. Express* 11 (2024), <https://doi.org/10.1088/2053-1591/ad6dbc>

- Thermal Effects on Domain Wall Stability at Magnetic Stepped Nanowire for Nanodevices Storage. *Nanomaterials* **2024**, 14, 1202. <https://doi.org/10.3390/nano14141202>.

- Vortex Domain Wall Thermal Pinning and Depinning in a Constricted Magnetic Nanowire for Storage Memory Nanodevices. *Nanomaterials* **2024**, 14, 1518. <https://doi.org/10.3390/nano14181518>

- Improving graphene quality using CVD microchannels (Patent Pending- Paper is ready for publication)

-S. Al-Kamiyani and T. Mohiuddin, "Influence of reduced graphene oxide on crude oil - water separation" *Journal of Petroleum Science & Engineering (SPE Prod & Oper* 37 (02) **2022**: 362–369). <https://doi.org/10.2118/209609-PA>

-S. Al-Kamiyani and T. Mohiuddin, " Effect of copper substrate oxidation and crystals orientations on nucleation of triangular graphene domains" *Elsevier, Vacuum* 176 (2020) 109312. <https://doi.org/10.1016/j.vacuum.2020.109312>.

-S. Al-Kamiyani and T. Mohiuddin, "Improved control in elimination of white impurities on graphene by chemical vapor deposition (CVD)," *AIP Advances*, vol. 8, no. Doi: 10.1063/1.5051693, p. 125325, **2018**.

- Oral Contribution in GraphIn2019/ Graphene Industry – Challenges & Opportunities) (Madrid-Spain, February 21-22, 2019)

- Graphene 2018 and 2D Materials International Conference & Exhibition/ June 26-29, 2018, Dresden (Germany)

Leadership or Volunteer Experience in

- **Teacher recruitment interviews committee.**
Future Pioneers Private School (2022-2024).
- **Cambridge mark moderation committee.**
Future Pioneers Private School (2022-2024).
- **Chairing physics test marking committee for the General Diploma.**
Governorate of Ad Dakhiliyah, 2013, 2014 and 2015.
- **Chairing the school projects evaluation committee in student's achievements.**
Governorate of Ad Dakhiliyah, Feb2014.
- **Main member in science exam reform project committee.**
Governorate of Ad Dakhiliyah.
- **Annual teacher recruitment Interviews committee.**
Governorate of Ad Dakhiliyah.
- **Teacher recruitment interviews committee.**
Egypt August 2015 for MOE.
- **Test preparation committee of physics for the General Diploma.**
For six years.
- **Test preparation committee of physics for bilingual General Diploma.**
Private international schools for two years.
- **Test preparation committee of physics for The Royal Guard of Oman Technical Collage.**
- **Teacher assessment mark moderation committee.**
For five years.
- **Advising committee for teacher's research projects.**
- **Test audit committee of physics for the General Diploma.**
For three years.
- **Physics and science trainer for in-service program for physics and science teachers.**

Rewards and Recognitions

- **Certificate of thanks and appreciation from the director of General Directorate of Education in the Ad Dakhiliyah Governorate, (July-2021).**
- **Certificate of thanks and appreciation from the director of General Directorate of Education in the Ad Dakhiliyah Governorate, (Feb-2012).**
- **Certificate of thanks and appreciation from the director of General Directorate of Education in the Ad Dakhiliyah Governorate, (April-2007).**
- **Honor certificate in Teacher's Day from the Ministry of Education, (March-2007).**
- **Certificate of thanks and appreciation from the director of General Directorate of Education in the Ad Dakhiliyah Governorate, (Oct-2006).**

- **Certificate from Scottish Qualification Authority in Examination Reform Project.**
- **Certificate from the Center of Abilities Release, Leaders Creativity, Kuwait, (2005).**
- **Certificate from the Professional Performance Management Consultancy, Trainers Preparation, Ministry of Education, (2004).**
- **Honor certificate in the Teacher's Day from the Ministry of Education, 2003.**

