

Muzammal Iqbal Shaukat

Assistant Professor

School of Natural Sciences

Email: muzzamal.shaukat@sns.nust.edu.pk

Contact: 00000000

LinkedIn:



About

Dr. Muzammal Iqbal Shaukat is working as Assistant Professor in the School of Natural Sciences. Dr. Muzammal Iqbal Shaukat has a PhD in Quantum Information Theory/Condensed Matter Physics. Dr. Muzammal Iqbal Shaukat has published 7 research articles & conference papers having a citation count of 60, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Quantum Information Theory/Condensed Matter Physics Universidade de Lisboa , Portugal	2015 - 2019
MPhil in Quantum Information Theory Quaid-i-Azam University , Pakistan	2008 - 2010
MSc in Physics Quaid-i-Azam University , Pakistan	2006 - 2008
BSc in Math-A, Math-B, Physics BZU, Multan , Pakistan	2003 - 2005

Experience

Assistant Professor School of Natural Sciences	2025- Present
Assistant Professor School of Natural Sciences	2023 - 2023
Assistant Professor School of Natural Sciences	2021 - 2023
Postdoctoral Researcher Instituto de Telecomunicacoes, , Instituto de Telecomunicacoes, Lisbon, Portugal	2019 - 2021
Assistant Professor University of Engineering and Technology, Lahore (RCET Campus), , University of Engineering and Technology, Lahore (RCET Campus), Gujranwala	2014 - 2015
Lecturer University of Engineering and Technology, Lahore (RCET Campus) , University of Engineering and Technology, Lahore (RCET Campus), Gujranwala	2010 - 2014
Research Associate QuaiD-I-Azam University, Islamabad , QuaiD-I-Azam University, Islamabad	2009 - 2010

Superdense coding for V-shaped channel and cylindrical geometry

2023

Ansha Tayyab Seerat Javed Muzzamal Iqbal Shaukat

Physica Scripta, Volume 98, Issue 9, Article Number 095109

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 2

DOI: <https://doi.org/10.1088/1402-4896/aced26>

Spatial solitons in an electrically driven graphene multilayer medium

2022

Muzzamal Iqbal Shaukat Monatsir Qasymeh Hichem Eleuch

Scientific Reports, Volume 12, Article Number 10931

Impact Factor: 4.996 | **Quartile:** 2 | **Citations:** 6

DOI: <https://doi.org/10.1038/s41598-022-15179-6>

Nonreciprocal quantum correlations and dense coding

2022

Muzzamal Iqbal Shaukat

Physical Review A, Volume 105, Issue 6, Article Number 062426

Impact Factor: 2.971 | **Quartile:** 2 | **Citations:** 4

DOI: <https://doi.org/10.1103/PHYSREVA.105.062426>

Super Dense Coding with Dark-Soliton Qubits

2022

Muzzamal Iqbal Shaukat

International Journal of Theoretical Physics, Volume 61, Article Nnumber: 28

Impact Factor: 1.4 | **Quartile:** 3 | **Citations:** 1

DOI: 10.1007/s10773-022-04996-0

Entanglement sudden death with quasi-static approximation

2022

Muzzamal Iqbal Shaukat

European Physical Journal Plus, Volume 137, Article Number: 205

Impact Factor: 3.911 | **Quartile:** 1 | **Citations:** 3

DOI: 10.1140/epjp/s13360-022-02411-5

Slow sound in matter-wave dark soliton gases

2019

Muzammal Iqbal Shaukat Eduardo V. Castro Hugo Tercas

Physical Review B, Volume 99, Issue 20, Article Number 205408

Impact Factor: 3.575 | **Quartile:** 2 | **Citations:** 5

DOI: 10.1103/PhysRevB.99.205408

Quantum dark solitons as qubits in Bose-Einstein condensates

2017

Muzammal Iqbal Shaukat Eduardo V. Castro Hugo Tercas

Physical Review A, Volume 95, Issue 5, Article Number 053618

Impact Factor: 2.909 | **Quartile:** 1 | **Citations:** 39

DOI: <https://doi.org/10.1103/PhysRevA.95.053618>