Milad Sharbafiun

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Gender : Male   Place of Birth : Isfahan, Iran
Date of Birth : 22.05.1994   Phone : (+98)9132703152
Nationality : Iranian   Skype : milad sharbaf

Education

2016-18   **Master of Science,** Condensed Matter Physics, University of Isfahan
             Thesis : *Study of the effect of disorder on the quantum transport of Phosphorene Nanoribbons*
             Supervisor : Dr. Mohsen Amini

2012-16   **Bachelor of Science,** Solid State of Physics, Qom University of Technology
             Project : *Band Structure of Photonic Crystals*
             Advisor : Dr. Mehdi Soleimani

Languages

Persian, Native Language
English, Excellent

Teaching Experience

2017-Present   **Teaching Assistant,** Basic Physics I
                  Basic Physics II
                  Quantum Mechanics I

Professional Training

2018   IPM (Institute for Research in Fundamental Sciences),
            Subject: *New Advanced Materials*
            Description : Advanced school on recent progress in condensed matter physics is planned by and held at the school of Nano Sciences.

2018   Isfahan University of Technology (IUT)
            Iranian-Swiss Joint Research Collaboration Workshop

2017   Pars Optics Department ,Tehran (Iran)
            Simulation of Photonic Crystals

Publications

Journal Papers in Review

2019   "*Vacancy-induced Fano resonances in zigzag phosphorene nanoribbons*"
M. Amini, M. Soltani, M. Sharbafiun
Physical Review B 99,085403 – Published 5 February 2019
https://doi.org/10.1103/PhysRevB.99.085403

2019   "*Two-impurity-entanglement generation by electron scattering in zigzag Phosphorene nanoribbons*"
M. Amini, M. Soltani, E. Ghanbari-Adivi, M. Sharbafiun
Quantum Information Processing
https://doi.org/10.1007/s11128-018-2170-9

2019   "*Tunable transmission due to defects in zigzag phosphorene nanoribbons*"
M. Amini, M. Soltani, E. Ghanbari-Adivi, M. Sharbafiun
EPL (Europhysics Letters) 125 (6), 67001
http://doi.org/10.1209/0295-5075/125/67001

Conference Papers

2017   "*The effect of vacancy disorder on the conductance of both topological and chiral edge states of zigzag phosphorene nanoribbon*"
M. Sharbafiun ,M. Amini
Iranian Conference on Physics 2017

Computer Skills

Programming
Python , Fortran , Matlab , C++ , Mathematica , HTML , CSS

Applications
Pycharm , Photoshop , Xcrysden , Lumerical , Matlab

Platforms
Linux , Windows

Memberships

2019-Present   **Member** of the Iran's National Elite Foundation (INEF)
2017-Present   **Member** of the Physics Society of Iran

Other

Interests and Hobbies

- Designing website
- Reading
- Basketball
- Photography