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Education

BSc.

University: University of Tehran
Major: Physics

Msc.

University: Tarbiat Modares University
Major: Solid-state Physics
Thesis: Effect of functionalization of graphene on its mechanical properties: A molecular dynamics study
Supervisors: Prof. Saeivar Iranizad

PhD

University: Institute for Nanoscience and Nanotechnology (INST), Sharif University of Technology
Major: Nano Science and Technology

Research Experience:

- Molecular Dynamics Simulation
- Mechanical Properties
- Machine Learning

Publications:

- **A. Hadizadeh Kheirkhah** et al., Mechanical properties of hydrogen functionalized graphene under shear deformation: A molecular dynamics study, *Solid state communications* 177 (2014) 98
- **A. Hadizadeh Kheirkhah** and E. Saeivar Iranizad, Mechanical properties of hydrogen functionalized graphene: A molecular dynamics study, *Modares Mechanical Engineering*. 13 (2013) 93-99
- **A. Hadizade KheirKhah**, E. saeivar Iranizad, Effect of sp^3 Bonding on the Mechanical Properties of Bilayer Graphene: A Molecular Dynamics Study, International congress on Nanoscience & Nanotechnology 8-10 september 2012, Kashan

- **A. Hadizade KheirKhah**, E. saievar Iranizad, Effect of Functionalization on the Mechanical Properties of Graphene: A Molecular Dynamics Study, Proceedings of the 4th International Conference on Nanostructures(ICNS4) 12-14 march, 2012, Kish Island