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Education

- ✓ B.Sc, Applied Physics, Tabriz University - 1998
- ✓ MS, Solid State Physics, Sistan and Baluchestan University - 2002
- ✓ PhD, Solid State Physics, Ferdowsi University of Mashhad - 2015

Courses

- | | |
|---|---------------------------------------|
| 1. Solid State Physics2 | 2. Physics Laboratory 1 |
| 3. Physics 2 | 4. Solid State Physics1 |
| 5. Basic Physics 1 | 6. General Physics2 |
| 7. Computational Physics of Nanometer Systems | 8. Physics of Semiconductor Devices 1 |

Master Thesis

1. Efficiency enhancement of the nanostructured ultra-thin CIGS/Si solar cell

[Mousa Aliahmad, Zihab Sohbatzadeh,]

نیمسال دوم سال تحصیلی 99-00

2. The effect of dual buffer layers CdS/ZnSe and CdTe/CdS on the performance of the nanostructured CuInGaSe₂ solar cells.

[Mousa Aliahmad, Zihab Sohbatzadeh,]

نیمسال دوم سال تحصیلی 99-00

3. Performance improvement of Cu(In_{1-x}Ga_x)Se₂ thinfilm solar cell by optimization of In₂S₃ buffer layer parameters

[Zihab Sohbatzadeh, Mohsen Saadat]

نیمسال اول سال تحصیلی 99-00

4. Investigation of the contaminant carbon nanotube (CNT) effects on Young's modulus of cubic silicon carbide (3C-SiC)

[Zihab Sohbatzadeh, Sasan Rezaee, Naser Hatefi Kargan, Mohammad Reza Mohammadi, Mahboobe Sayahi]

نیمسال دوم سال تحصیلی 97-98

5. Investigation of the contaminant carbon nanotube (CNT) effects on Young's modulus of cubic silicon carbide (3C-SiC)

[Zihab Sohbatzadeh, Sasan Rezaee, Fatemeh Heydari nasab, Mohammad Reza Mohammadi, Mahboobe Sayahi]

نیمسال اول سال تحصیلی 97-98

6. Synthesis of Cr-doped ZnS nanoparticles and study of magnetic and optical properties

[Mousa Aliahmad, Zihab Sohbatzadeh, Abbas Rahdar]

نیمسال اول سال تحصیلی 96-97

Journals Papers

2021

1. Low thermal conductivity: fundamentals and theoretical aspects in thermoelectric applications

H.A. Eivari, Zihab Sohbatzadeh, P. Mele, M.H.N. Assadi

Materials Today Energy Volume: (21) 100744-1 - 100744-35

2020

2. Mechanical properties of continuous fiber composites of cubic silicon carbide (3C-SiC) / different types of carbon nanotubes (SWCNTs, RSWCNTs, and MWCNTs): A molecular dynamics simulation

Majid Kohestanian, Zihab Sohbatzadeh, Sasan Rezaee

Materials Today Communications Volume: (23) 100922-1 - 100922-15

2018

3. Formation energy and some mechanical properties of hydrogenated hexagonal monolayer of GeC

Zihab Sohbatzadeh, Hossein Asnaashari Eivari, Davoud Vahedi Fakhrabad

PHYSICA B-CONDENSED MATTER Volume: (547) 88 - 91

2015

4. Spin-dependent transport properties of an armchair boron-phosphide nanoribbon embedded between two graphene nanoribbon electrodes

Zihab Sohbatzadeh, , ,

PHYSICA E-LOW-DIMENSIONAL SYSTEMS and NANOSTRUCTURES Volume: (65) 61 - 67

2014

5. Spin-dependent transport characteristics of Fe met-cars

Zihab Sohbatzadeh

STRUCTURAL CHEMISTRY Volume: (25) 551 - 559

2013

6. Preparation of Iron Oxide Ionic Ferrofluid and Study Its Magnetic and Rheological Properties

Hossein Eivari Asnaashari, Zihab Sohbatzadeh, Abbas Rahdar, Hadi Arabi

Advanced Science Letters Volume: (19) 795 - 799