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Education

- ✓ B.Sc, Solid State Physics, Shahid Chamran University of Ahvaz - 1994
- ✓ MS, Solid State Physics, Tabriz University - 1997
- ✓ PhD, Nanosciences and Technology - Nanophysics, malaya - 2017

Courses

- | | |
|--|------------------------------|
| 1. Physics 1 | 2. Basic Physics 2 |
| 3. Basic Physics 3 | 4. Seminar |
| 5. Methods of Analyzing Nanostructures | 6. Advanced Electrodynamics1 |
| 7. Waves and vibrations | 8. Electronics1 |

Thesis

Master Thesis

1. Synthesis and Characterization of Titanium Dioxide Loaded Reduced Graphene Oxide Composite

مریم بابائی, [Majid Azarang, Ahmadreza Daraei]

نیمسال دوم سال تحصیلی 99-00

2. Synthesis and characterization of graphitic-carbon nitride decorated with MnFe₂O₄ nanoparticles

زینب کیخاثراد, [Majid Azarang, Mousa Aliahmad, Mohsen Saadat, Soodeh Zarepour]

نیمسال دوم سال تحصیلی 99-00

3. Synthesis and characterization of N- graphene nanosheets decorated with nickel doped zinc oxide nanoparticles

ستاره خسروی بنجار, [Majid Azarang, Mousa Aliahmad]

نیمسال اول سال تحصیلی 99-00

4. Synthesis and characterization of copper doped magnesium oxide nanoparticles

محمد بلوچ, [Mousa Aliahmad, Majid Azarang]

نیمسال اول سال تحصیلی 99-00

5. Synthesis and characterization of N- graphene nanosheets decorated with nickel doped zinc oxide nanoparticles

ستاره خسروی بنجار, [Majid Azarang, Mousa Aliahmad]

نیمسال دوم سال تحصیلی 98-99

6. Synthesis and characterization of molybdenum disulfide nano sheets decorated with silver nano particles

لاله صیاداربابی, [Abdol Mahmood Davarpanah, Majid Azarang]

نیمسال دوم سال تحصیلی 98-99

7. Synthesis and characterization graphene nanosheet decorated with iron doped zinc oxide nanostructures

محمدسلیم ریگی کوته, [Mousa Aliahmad, Majid Azarang, Ahmadreza Daraei, Zihab Sohbatzadeh, Naser Hatefi Kargan]

نیمسال دوم سال تحصیلی 98-99

8. Synthesis, Characterization And Comparison of Fe₃O₄ And Fe₂O₃ loaded Reduced Graphene Oxide composites

الهام رحمانی فر, [Mousa Aliahmad, Majid Azarang]

نیمسال دوم سال تحصیلی 97-98

9. Synthesis And Characterization of Cerium Oxide Silver Loaded Reduced Graphene Oxide Composite

معصومه پیران زانی, [Mousa Aliahmad, Majid Azarang]

نیمسال دوم سال تحصیلی 97-98

10. Spin transport properties through ferromagnetic /single molecule/ ferromagnetic structure: Influence of molecule to electrodes interface structure

زهرا حسین ابادی, [Mojtaba Ashhadi, Fatemeh Heydari nasab, Majid Azarang, Naser Hatefi Kargan]

نیمسال اول سال تحصیلی 97-98

11. Study of the Photonic Modes of Toroidal Microcavity for Sensing Applications

مهرناز ریسی کوهستانی, [Ahmadreza Daraei, Naser Hatefi Kargan, Majid Azarang, Mousa Aliahmad, Seyed Alireza Alavi]

نیمسال دوم سال تحصیلی 96-97

12. Investigating the performance of a plasmonic graphene photodetector

رویا فتوحی, [Naser Hatefi Kargan, Ahmadreza Daraei, Mousa Aliahmad, Majid Azarang, Seyed Alireza Alavi]

نیمسال اول سال تحصیلی 96-97

13. Green Synthesis and characterization of nickel oxide silver loaded Reduced Graphene Oxide composite

سمیه سعیدی مهر, [Mousa Aliahmad, Majid Azarang, Abbas Rahdar]

نیمسال اول سال تحصیلی 96-97

Journals Papers

2024

1. Metal oxide/g-C₃N₄ nanocomposites chemiresistive gas sensors: A review on enhanced performance

Vahid Khoramshahi, Majid Azarang, Morteza Nouri, Abbas Shirmardi, Ramin Yousefi

Talanta Open Volume: (9) 100290-1 - 100290-29

2. Efficient photodegradation of Rhodamine B dye assisted by Pigskin-Gel via sustainable synthesis of Fe₂O₃@rGO nanocrystals with magnetically separable properties

Elham Rahmanifar, Majid Azarang, Mousa Aliahmad

JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY Volume: (111) 671 - 688

2021

3. Green gelatin-assisted: Synthesis of Co₃O₄NPs@rGO nanopowder for highly efficient magnetically separable methylene orange dye degradation

Majid Azarang, Arazoo Bakhteyarenea, Reza Rakhshani, Abdol Mahmood Davarpanah, Mousa Aliahmad,

ADVANCED POWDER TECHNOLOGY Volume: (32) 504 - 514

2018

4. Zn-doped PbO nanoparticles (NPs)/fluorine-doped tin oxide (FTO) as photoanode for enhancement of visible-near-infrared (NIR) broad spectral photocurrent application of narrow bandgap nanostructures SnSe NPs as a case study

Majid Azarang, Mousa Aliahmad, Ghorban Shiravizadeh, H. R. Azimi, yousefi ramin

JOURNAL OF APPLIED PHYSICS Volume: (124) 123101 -

5. Nitrogen doped graphene supported zinc sulfide nanorods as efficient Pt free for visible-light photocatalytic hydrogen production

Majid Azarang, mehran sookhakian, Mousa Aliahmad, Masoumeh Dorraj, Basirun Wan Jeffrey, Goh Boon Ton

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY Volume: (43) 14905 - 14914

2017

6. Prussian blue-nitrogen-doped graphene nanocomposite as hybrid electrode for energy storage applications

, , , , Majid Azarang, , ,

ELECTROCHIMICA ACTA Volume: (230) 316 - 323

2016

7. Effect of annealing temperature and graphene concentrations on photovoltaic and NIR-detector applications of PbS/rGO nanocomposites

, , , , , Majid Azarang

CERAMICS INTERNATIONAL Volume: (42) 15209 - 15216

8. Layer-by-Layer Electrodeposited Reduced Graphene Oxide-Copper Nanopolyhedra Films as Efficient Platinum-Free Counter Electrodes in High Efficiency Dye-Sensitized Solar Cells

, , , , Majid Azarang, ,

JOURNAL OF THE ELECTROCHEMICAL SOCIETY Volume: (163) D154 - D159

9. Electrodeposition of flower-like platinum on electrophoretically grown nitrogen-doped graphene as a highly sensitive electrochemical non-enzymatic biosensor for hydrogen peroxide detection

, , , , , Majid Azarang, ,

APPLIED SURFACE SCIENCE Volume: (386) 418 - 426

2015

10. Crystalline quality assessment photocurrent response and optical properties of reduced graphene oxide uniformly decorated zinc oxide nanoparticles based on the graphene oxide concentration

Majid Azarang, Ahmad Shuhaimi, M. Sookhakian

RSC Advances Volume: (5) 53117 - 53128

11. Enhanced visible-light photocatalytic activity of strontium-doped zinc oxide nanoparticles

, , , , , , Majid Azarang

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING Volume: (32) 152 - 159

12. Significantly improved photocurrent response of ZnS-reduced graphene oxide composites

, , , , , , , Majid Azarang

JOURNAL OF ALLOYS AND COMPOUNDS Volume: (632) 201 - 207

13. One-pot solgel synthesis of reduced graphene oxide uniformly decorated zinc oxide nanoparticles in starch environment for highly efficient photodegradation of Methylene Blue

Majid Azarang, , ,

RSC Advances Volume: (5) 21888 - 21896

2014

14. Effects of graphene oxide concentration on optical properties of ZnO/RGO nanocomposites and their application to photocurrent generation

Majid Azarang, , ,

JOURNAL OF APPLIED PHYSICS Volume: (116) 084307-1 - 084307-6

15. Synthesis and characterization of ZnONPs/reduced graphene oxide nanocomposite prepared in gelatin medium as highly efficient photo-degradation of MB

Majid Azarang, , , ,

CERAMICS INTERNATIONAL Volume: (40) 10217 - 10221

2012

16. Growth and optical properties of ZnOIn₂O₃ heterostructure nanowires

, , , Majid Azarang

CERAMICS INTERNATIONAL Volume: (39) 5191 - 5196

Conferences Papers

2019

1. Synthesis of Graphene Oxide nanosheets doped with Cobalt Oxide nanoparticles and investigation on their magnetic properties

Arazoo Bakhteyarenea, Abdol Mahmood Davarpanah, Majid Azarang

2018

2. Synthesis and characteristics of reduced Graphene Oxide nanosheets attached to Nickel

Morteza Shahraki, Abdol Mahmood Davarpanah, Majid Azarang