



Amir Zelati

Assistant Professor

College: Basic Science & Islamic Studies

Department: Basic Science

Education

Degree	Graduated in	Major	University
BSc	2005	Physics	Ferdowsi University of Mashhad
MSc	2008	Solid State Physics	Ferdowsi University of Mashhad
Fellowship	2013	Visiting Scholar at Department of Physics	Simon Fraser University
Doctoral	2014	Solid State Physics	University of Birjand

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Department of Basic Sciences	(Assistant Prof. of Physics) Faculty Member	On Contract	Full Time	

Work Experience

Feb.2020 to Present: Assistant Professor of Physics, Birjand University of Technology, Birjand, Iran

Feb.2015 to Sep.2019: Assistant Professor of Physics, Technical Faculty of Ferdows, University of Birjand, Birjand, Iran

Dec.2015 to Feb.2019: Associate Dean for Academic Affairs, Technical Faculty of Ferdows, University of Birjand, Birjand, Iran

Papers in Conferences

1. Amir Zelati و Masoud Majidiyan Sarmazdeh.Using DFT and Lorentz's model to study optical properties of a new phase of SnS₂ Semiconductor.Annual Physics Conference of Iran.-شماره صفحات ۸۱۶-۸۱۹. Isfahan, Iran.۲۰۲۱ ۰۸ ۲۳.
2. Amir Zelati , Masoud Majidiyan Sarmazdeh , Nafiseh Rajaei.Investigation of structural and mechanical properties of Co₂TiGe full-Heusler compound based on the density functional theory.Annual Physics Conference of Iran.شماره صفحات ۸۸۸-۸۹۱. Isfahan, Iran.۲۰۲۱ ۰۸ ۲۳.
3. Ahmad Amirabadizadeh , Zahra Lotfollahi , Amir Zelati.Synthesis, characterization and study of the effect of temperature on magnetic behavior of magnetite ferrofluid.۲۳rd Symposium of Crystallography and Mineralogy of Iran.Damghan, Iran.۲۰۱۶ ۰۱ ۲۷.
4. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Hadi Salamati, Jeff Sonier.Improvement of Superconducting Properties of Bi-۲۲۲۳ Added with Nano Europium Oxide.۴th National Conference on Advances in Superconductivity.Tehran, Iran.۲۰۱۴ ۰۲ ۰۶.
5. Ahmad Amirabadizadeh , Amir Zelati , Seyed Khorshid Hasanain.Studying The Effect of Crossed Flux On Lower Critical Field (H_{C1}) Of Y₁Ba₂Cu₃O_{7-x} Superconductors.Annual Physics Conference of Iran.Isfahan, Iran.۲۰۰۹ ۰۸ ۱۵.
6. Amir Zelati , Mohamad Hoseini , Ahmad Amirabadizadeh.Characterization of the PZT samples prepared by sol-gel and solid state reaction methods by Raman spectroscopy, XRD and SEM.۱۷th Symposium of Crystallography and Mineralogy of Iran.Hamedan, Iran.۲۰۰۹ ۰۷ ۲۳.
7. Amir Zelati و Mohamad Hoseini.Synthesis Pb(Zr_{0.۵۲}Ti_{0.۴۸})O₃ nano powders by the gel- combustion method and characterization of the samples by XRD and SEM.National Conference on Nano Material and Nano Technology.Najafabad, Iran.۲۰۰۹ ۰۳ ۲۷.
8. Amir Zelati, Mohamad Hoseini, Ahmad Kompany, Rouhollah Taghavi Mendi.Synthesis Pb(Zr_{0.۵۲}Ti_{0.۴۸})O₃ nanopowders by the sol-gel method and characterization of the samples by Raman spectroscopy and SEM.۹th Conference on Condensed Matter.Ahvaz, Iran.۲۰۰۹ ۰۲ ۰۳.
9. Amir Zelati ,Influence of Terbium nanoparticles addition on superconducting properties of BPSCCO ,12th Prague Colloquium on f-electron System (PCFES 2018) ,Prague, Czech Rep. ,2018 07 04.
10. Ahmad Amirabadizadeh, Zahra Lotfollahi, Amir Zelati ,Effect of temperature on the magnetic behavior of Magnetite Ferrofluid synthesized by co-precipitation method ,International Symposium on Material Science and Engineering (ISMSE 2017) ,Kuala Lumpur, Malaysia ,2017 01 13.
11. Amir Zelati, Ahmad Amirabadizadeh ,Effect of calcination atmosphere on the structural and magnetic properties of ZnFe₂O₄ nanoparticles prepared by Sol-Gel method ,International Conference on Advances in Functional materials (AFM 2016) ,Jeju Island, South Korea ,2016 08 08.
12. Amir Zelati, Ahmad Amirabadizadeh, Jeff Sonier ,Study the structural and superconducting properties of europium oxide nanoparticle added Bi_{1.6}Pb_{0.4}Sr₂Ca₂Cu₃O_y ,11th Prague Colloquium on f-electron System (PCFES 2014) ,Prague, Czech Rep ,2014 07 02.
13. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Hadi Salamati, Jeff Sonier ,Synthesis and Structural Characterization of Dy₂O₃ Nanoparticles via XRD and TEM ,9th Autumn School on X-ray Scattering from Surfaces and Thin Layers ,Smolenice, Slovak Rep ,2013 09 25.
14. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Zobadeh Momeni Larimi ,Synthesis of BaCO₃ nanopowder by the gel-combustion method at different calcination temperatures and characterization of the samples by TEM and XRD ,International Conference on Chemistry and Chemical Process (ICCCP 2011) ,Bangkok, Thailand ,2011 05 07.
15. Zobadeh Momeni Larimi, Ahmad Amirabadizadeh, Amir Zelati ,Synthesis of Y₂O₃ Nanoparticles by Modified Transient Morphology Method ,International Conference on Chemistry and Chemical Process (ICCCP 2011) ,Bangkok, Thailand ,2011 05 07.

Papers in Journals

1. Maryam Habibi, Saeed Mirzaei, Ali Arman, Stanislav Jurečka, Mohammad Sadeghi, Amir Zelati, Reza Shakoury, Ehsan Tanhaee, Nader Ghobadi, Hamid Ehteram, tefan lu, Microstructure, fractal geometry and corrosion properties of CrN thin films: The effect of shot number and angular position, *Materials Today Communications*, Vol. 32, pp. 104072, 2022 08 01.
2. Maryam Habibi, Mohammad Sadeghi, Ali Arman, Dinara Sobola, Carlos Luna, Saeed Mirzaei, Amir Zelati, Henrique Duarte da Fonseca Filho, tefan lu, Corrosion resistance and surface microstructure of Mg₃N₂/SS thin films by plasma focus instrument, *Microscopy Research and Technique*, Vol. 85, No. 8, pp. 2880-2893, 2022 08 01.
3. Nader Ghobadi, Ali Arman, Mohammad Sadeghi, Carlos Luna, Saeed Mirzaei, Amir Zelati, Reza Shakoury, Optical transitions and photocatalytic activity of NiSe films prepared by the chemical solution deposition method, *The European Physical Journal Plus*, Vol. 137, No. 6, pp. 661, 2022 06 01.
4. tefan lu, Erveton P Pinto, Robert S Matos, Amir Zelati, Shahram Solaymani, Azizollah Shafiekhani, Atefeh Ghaderi, Surface dynamics, fractal features, and micromorphology analysis of kefir biofilms, *Microscopy Research and Technique*, Vol. 85, No. 5, pp. 1964-1975, 2022 05 01.
5. Shahram Solaymani, tefan lu, Negin Beryani Nezafat, Laya Dejam, Azizollah Shafiekhani, Atefeh Ghaderi, Amir Zelati, Optical properties and surface dynamics analyses of homojunction and heterojunction Q/ITO/ZnO/NZO and Q/ITO/ZnO/NiO thin films, *Results in Physics*, Vol. 29, pp. 104679, 2021 10 01.
6. Reza Shakoury, Negin Talebani, Amir Zelati, tefan lu, Ali Arman, Saeed Mirzaei, Azadeh Jafari, The effect of thickness and film homogeneity on the optical and microstructures of the ZrO₂ thin films prepared by electron beam evaporation method, *Optical and Quantum Electronics*, Vol. 53, No. 8, pp. 441, 2021 08 01.
7. A. Zelati, R. Taghavimendi, A. Bakhshayeshi, First-principles investigation of optoelectronic properties of novel SnS₂ with a cubic structure, *Solid State Communications*, Vol. 333, pp. 114344, 2021 07 01.
8. M. Sadeghi, A. Zelati, A. Boochani, A. Arman, S. Mirzaei, Comparing half-metallic, MOKE, and thermoelectric behavior of the CrTiZ (Z=As, P) half-Heuslers: a DFT study, *Material Research Express*, Vol. 8, No. 4, pp. 046302, 2021 04 01.
9. Ahmad Amirabadizadeh, Amir Zelati, Zahra Lotfollahi, Studying the Temperature Effect on the Magnetic Behavior of Fe₃O₄ Water Based Ferrofluid, *Key Engineering Materials*, Vol. 744, pp. 468-472, 2017 07 01.
10. A. Amirabadizadeh, Z. Lotfollahi, A. Zelati, Giant magnetoimpedance effect of Co_{68.15}Fe_{4.35}Si_{12.5}B₁₅ amorphous wire in the presence of magnetite ferrofluid, *Journal of Magnetism and Magnetic Materials*, Vol. 415, pp. 102-105, 2016 10 01.
11. Masoud Majidiyan Sarmazdeh, Roohallah Taghavi Mendi, Amir Zelati, Arash Boochani, Fariba Nofeli, First-principles study of optical properties of InN nanosheet, *International Journal of Modern Physics B*, Vol. 30, No. 19, pp. 1650117, 2016 07 01.
12. R. Taghavi Mendi, M. Majidiyan Sarmazdeh, S. M. Elahi, M. R. Abolhassani, A. Boochani, A. Zelati, Structural and electronic properties of V- and Co-doped single-walled ZnONT (8, 0): Transition from semiconducting to metallic and half-metallic states, *International Journal of Modern Physics B*, Vol. 29, No. 7, pp. 1550068, 2015 03 01.
13. Amir Zelati, Ahmad Amirabadizadeh, Amirhossein Hosseini, A facile approach to synthesize dysprosium oxide nanoparticles, *International Journal of Industrial Chemistry*, Vol. 5, No. 3, pp. 69-75, 2014 12 01.
14. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Hadi Salamati, Jeff Sonier, Critical Current Density and Intergranular Coupling Study of the Dysprosium Oxide Nanoparticle Added Bi_{1.6}Pb_{0.4}Sr₂Ca₂Cu₃O_y Superconductor, *Journal of Superconductivity and Novel Magnetism*, Vol. 27, No. 10, pp. 2185-2193, 2014 10 01.
15. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Hadi Salamati, Jeff Sonier, Effect of Eu₂O₃ Nanoparticles Addition on Structural and Superconducting Properties of BSCCO, *Journal of Superconductivity and Novel Magnetism*, Vol. 27, No. 6, pp. 1379-1369, 2014 06 01.

16. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Hadi Salamati, Jeff Sonier, Effects of Dy₂O₃ Nanoparticles Addition on Structural and Superconducting Properties of BSCCO, Indian Journal of Science and Technology, Vol. 7, No. 2, pp. 123-134, 2014 02 01.
17. Z. Lotfi Mahyari, A. Cannell, C. Gomez, S. Tezok, A. Zelati, E. V. L. de Mello, J. , & Q. Yan, D. G. Mandrus, J. E. Sonier, Zero-field μ SR search for a time-reversal-symmetry-breaking mixed pairing state in superconducting Ba_{1-x}K_xFe₂As₂, Physical Review B, Vol. 89, No. 2, pp. (R)020502, 2014 01 08.
18. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Hadi Salamati, Jeff Sonier, Manufacture and Characterization of Dy₂O₃ Nanoparticles via X-Ray Diffraction, TEM and photoluminescence, Indian Journal of Science and Technology, Vol. 6, No. 12, pp. 1-7, 2013 12 01.
19. Amir Zelati, Ahmad Amirabadizadeh, Ahmad Kompany, Preparation and Characterization of Barium Carbonate Nanoparticles, International Journal of Chemical Engineering and Applications, Vol. 2, No. 4, pp. 299-303, 2011 08 01.