

Personal Information

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Research Interests

- Hydrogen storage technology
- Solid hydrogen storage materials
- Dilute magnetic semiconductors (DMS)
- Nanostructured magnetic materials
- Giant Magnetoimpedance (GMI)
- Computational condensed matter physics in the framework of the Density Functional Theory (DFT) using ab initio Full Potential and Pseudopotential method, employing WIEN2K and Quantum-ESPRESSO codes

Education

- ❖ **Ph.D.** , University of Birjand, Birjand, Iran (2009-2014)
Major: Solid State Physics
Dissertation: "Mechanism of hydrogen absorption and desorption by AB₅ and AB₂ hydrogen storage alloys materials and investigation of their physical properties ([link](#))", Under supervision of Prof. Hadi Arabi ([link](#)) and Prof. Faiz Pourarian ([link](#))
- ❖ **M.Sc.** , Ferdowsi University of Mashhad, Mashhad, Iran (2007-2009)
Major: Solid State Physics
Thesis: "Synthesis of indium tin oxide (ITO) nanoparticles by sol-gel method and investigation of structural and optical properties", Under supervision of Prof. Naser Shahtahmasebi ([link](#)) and Prof. Mahmood Rezaee Roknabadi ([link](#))
- ❖ **B.Sc.** , University of Birjand, Birjand, Iran (2003-2007)
Major: Physics
Thesis: "Instrumental neutron activation analysis (INAA)", Under supervision of Dr. Mohammad Mehdi Firoozabadi ([link](#))

Journal Publications

1. A. Amirabadizadeh, M. Hassanzadeh, **R. Sarhaddi** and M.R. Rasouli, "Introducing and investigate structural and magnetic properties of ribbons Co_{68.5-x}Fe₄W_xSi_{16.5}B₁₁ (x = 0.8, 2) in amorphous and crystalline states", Iranian Journal of Crystallography and Mineralogy (2019). (Under Review)

2. **R. Sarhaddi** and H. Goharimanesh, "Structural, electronic and magnetic properties of Fe₂TiP full-Heusler compound: A first-principles study", *Journal of Theoretical and Applied Physics* (2019). (Under Review)
3. E. Roohani, H. Arabi, **R. Sarhaddi** and A. Shabani, "Magnetic and structural properties of SrFe_{12-x}Cr_xO₁₉ (x = 0, 0.25, 0.5, 0.75, 1) hexaferrite powders obtained by sol-gel auto-combustion method", *Journal of Superconductivity and Novel Magnetism* 31(5) (2018) 1607-1613. DOI: [10.1007/s10948-017-4351-7](https://doi.org/10.1007/s10948-017-4351-7)
4. E. Roohani, H. Arabi, and **R. Sarhaddi**, "Influence of nickel substitution on crystal structure and magnetic properties of strontium ferrite preparation via sol-gel auto-combustion route", *International Journal of Modern Physics B*, 32(1) (2018), id. 1750271. DOI: [10.1142/S021797921750271X](https://doi.org/10.1142/S021797921750271X)
5. A. Amirabadizadeh, Z. Salighe, **R. Sarhaddi** and Z. Lotfollahi, "Synthesis of ferrofluids based on cobalt ferrite nanoparticles: Influence of reaction time on structural, morphological and magnetic properties", *Journal of Magnetism and Magnetic Materials*, 434 (2017) 78-85. DOI: [10.1016/j.jmmm.2017.03.023](https://doi.org/10.1016/j.jmmm.2017.03.023)
6. E. Roohani, H. Arabi, **R. Sarhaddi** and S. Sudkhah, "M-Type Strontium Hexaferrite Nanoparticles Prepared by Sol-Gel Auto-combustion Method: The Role of Co Substitution in Structural, Morphological, and Magnetic Properties", *Journal of Superconductivity and Novel Magnetism* 30(6) (2017) 1599-1608. DOI: [10.1007/s10948-016-3966-4](https://doi.org/10.1007/s10948-016-3966-4)
7. A. Amirabadizadeh, M.R. Rasouli, R. Mardani and **R. Sarhaddi**, "Investigation of magnetic anisotropy in Co-based microwires", *Iranian Journal of Crystallography and Mineralogy*, 24(3) (2016) 587-594 (In Persian). [link](#)
8. A. Amirabadizadeh, M.R. Rasouli, **R. Sarhaddi** and R. Mardani, "The effect of crossed configuration on giant magneto-impedance properties of cobalt-based amorphous wires", *Journal of Superconductivity and Novel Magnetism*, 29(10) (2016) 2599-2606. DOI: [10.1007/s10948-016-3579-y](https://doi.org/10.1007/s10948-016-3579-y)
9. A. Amirabadizadeh, M.R. Rasouli, **R. Sarhaddi** and R. Mardani, "The influence of series and parallel current flowing through two paralleled Co-based amorphous wires on giant magneto impedance effect", *Indian Journal of Science and Technology*, 9(6) (2016). DOI: [10.17485/ijst/2016/v9i6/79651](https://doi.org/10.17485/ijst/2016/v9i6/79651)
10. E. Roohani, H. Arabi, **R. Sarhaddi**, S. Sudkhah and A. Shabani, "Effect of annealing temperature on structural and magnetic properties of strontium hexaferrite nanoparticles synthesized by sol gel auto-combustion method", *International Journal of Modern Physics B*, 29(27) (2015), id. 1550190. DOI: [10.1142/S0217979215501908](https://doi.org/10.1142/S0217979215501908)
11. A. Amirabadizadeh, **R. Sarhaddi**, Z. Vahedipanah and R. Mardani, "Structural, morphological, electrical and magnetic properties of nanostructured CoFe thin films prepared by spray pyrolysis deposition method", *Surface Review and Letters*, 22(5) (2015), id. 1550068. DOI: [10.1142/S0218625X15500687](https://doi.org/10.1142/S0218625X15500687)
12. **R. Sarhaddi**, H. Arabi and F. Pourarian, "Structural, stability and electronic properties of C15-AB₂ (A = Ti, Zr; B = Cr) intermetallic compounds and their hydrides: An ab initio study", *International Journal of Modern Physics B*, 28(17) (2014), id. 1450105. DOI: [10.1142/S0217979214501057](https://doi.org/10.1142/S0217979214501057)
13. **R. Sarhaddi**, H. Arabi and F. Pourarian, "Structural, morphological, magnetic and hydrogen absorption properties of LaNi₅ alloy: A comprehensive study", *International*

Journal of Modern Physics B, 28(14) (2014), id. 1450079. DOI: [10.1142/S0217979214500799](https://doi.org/10.1142/S0217979214500799)

14. S.M. Zareii (Alavi Sadr), H. Arabi, F. Pourarian and **R. Sarhaddi**, "Physical properties and electronic structure of LaNi_5 compound before and after hydrogenation: An experimental and theoretical approach", Iranian Journal of Hydrogen & Fuel Cell, 1(1) (2014) 27-39. DOI: [10.22104/IJHFC.2014.10](https://doi.org/10.22104/IJHFC.2014.10)
15. **R. Sarhaddi**, H. Arabi and F. Pourarian, "Investigation of hydrogen absorption on structural, thermodynamic and electronic properties of XCr_2 (X= Ti, Zr) binary compounds", Physic-e Rooz, 1 (2013) 52 (In Persian). [PDF](#)
16. A. Amirabadizadeh, M.R. Rasouli and **R. Sarhaddi**, "Structural and magnetic properties of $\text{Co}_{0.5}\text{Ni}_{0.5-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ (x = 0, 0.15, 0.25, 0.35, 0.5) ferrite nanoparticles prepared via sol-gel auto-combustion method", Journal of Advances in Physics, 3(3) (2013) 267-277. DOI: [10.24297/jap.v3i3.2060](https://doi.org/10.24297/jap.v3i3.2060)
17. E. Azhir, R. Etefagh, N. Shahtahmasebi, M. Mohammadi, D. Amiri and **R. Sarhaddi**, "Aspergillus niger biosensor based on tin oxide (SnO_2) nanostructures: nanopowder and thin film", Indian Journal of Science and Technology, 5(7) (2012) 3010-3012. [link](#)
18. M. Mohammadi, N. Shahtahmasebi, M. Karimipour and **R. Sarhaddi**, "Characterization of nanostructured Nd-doped TiO_2 thin film synthesized by spray pyrolysis method: Structural, optical and magneto-optical properties", Indian Journal of Science and Technology, 5(6) (2012) 2912-2915. [link](#)
19. A. Rahdar, H. Asnaashari Eivari and **R. Sarhaddi**, "Study of structural and optical properties of ZnS:Cr nanoparticles synthesized by co-precipitation method", Indian Journal of Science and Technology, 5(1) (2012) 1855-1858. [link](#)
20. S.M. Zareii and **R. Sarhaddi**, "Structural, electronic properties and heat of formation of Mg_2FeH_6 complex hydride: an ab initio study", Physica Scripta, 86(1) (2012) 015701. DOI: [10.1088/0031-8949/86/01/015701](https://doi.org/10.1088/0031-8949/86/01/015701)
21. S.M. Zareii, H. Arabi and **R. Sarhaddi**, "Effect of Si substitution on electronic structure and magnetic properties of Heusler compounds $\text{Co}_2\text{TiAl}_{1-x}\text{Si}_x$ ", Physica B: Condensed Matter, 407(17) (2012) 3339-3346. DOI: [10.1016/j.physb.2012.04.019](https://doi.org/10.1016/j.physb.2012.04.019)
22. **R. Sarhaddi**, N. Shahtahmasebi, M. Rezaee Rokn-abadi and M.M. Bagheri Mohagheghi, "Effect of post-annealing temperature on nano-structure and energy band gap of indium tin oxide (ITO) nano-particles Synthesized by polymerizing-complexing sol-gel method", Physica E: Low-Dimensional Systems & Nano, 43(1) (2010) 452-457. DOI: [10.1016/j.physe.2010.08.028](https://doi.org/10.1016/j.physe.2010.08.028)
23. S. Akbarnezhad, S.M. Mousavi and **R. Sarhaddi**, "Sol-gel synthesis of alumina-titania ceramic membrane: preparation and characterization", Indian Journal of Science and Technology, 3(10) (2010) 1048-1051. [link](#)
1. A. Amirabadizadeh, M. Hassanzadeh, **R. Sarhaddi** and M.R. Rasouli, "Investigation of magnetoimpedance response of cobalt base magnetic ribbons $\text{Co}_{68.15}\text{Fe}_{4.35}\text{Si}_{12.5}\text{B}_{15}$ in the presence of $\text{Fe}_3\text{O}_4/\text{PVA}$ polymer nanocomposites", The 26th Symposium of Crystallography and Mineralogy of Iran (SCM26), Imam Khomeini International University, Qazvin, Iran, January 23-24, 2019 (In Persian). [link](#)

2. H. Goharimanesh and **R. Sarhaddi**, "Investigation of electronic structures, magnetic properties and half-metallicity of full-Heusler compound Ti_2VAI ", The Annual Physics Conference of Iran, Imam Khomeini International University, Qazvin, Iran, August 27-30, 2018 (In Persian). [link](#)
3. A. Amirabadizadeh, M.R. Rasouli, R. Mardani and **R. Sarhaddi**, "The investigation of the effect of circular configuration of cobalt-based amorphous wire on magnetoimpedance", The Annual Physics Conference of Iran, Yazd University, Yazd, Iran, August 28-31, 2017 (In Persian). [link](#)
4. A. Amirabadizadeh, Z. Salighe, and **R. Sarhaddi**, "The effect of reaction time on structural, morphological and magnetic properties of cobalt ferrite based ferrofluid", The Annual Physics Conference of Iran, Yazd University, Yazd, Iran, August 28-31, 2017 (In Persian). [link](#)
5. H. Goharimanesh and **R. Sarhaddi**, "Investigation of structural, electronic and magnetic properties of Fe_2TiP full-Heusler compound", The 11th Condensed Matter Physics Conference of Iran, Shahid Rajaei Teacher Training University, Tehran, Iran, February 1-2, 2017 (In Persian). [link](#)
6. A. Amirabadizadeh, M.R. Rasouli, **R. Sarhaddi** and R. Mardani, "The investigation of the effect of changing the angle between two crossed wires on Magnetoimpedance", The Annual Physics Conference of Iran, Shiraz University, Shiraz, Iran, August 22-25, 2016 (In Persian). [link](#)
7. A. Amirabadizadeh, Z. Salighe, **R. Sarhaddi** and Z. Barzgari, "Synthesis and investigation of magnetic properties of Co-ferrite based ferrofluid", The Annual Physics Conference of Iran, Shiraz University, Shiraz, Iran, August 22-25, 2016 (In Persian). [link](#)
8. A. Amirabadizadeh, J. Ramezany Roudy and **R. Sarhaddi**, "Investigation of annealing temperature on structural and magnetic properties of nickel ferrite thin films prepared by the spray pyrolysis method", The Annual Physics Conference of Iran, Shiraz University, Shiraz, Iran, August 22-25, 2016 (In Persian). [link](#)
9. A. Amirabadizadeh, A. Pishavar, M. Hasanzade, M. Soleimani Moghaddam, Z. Lotfollahi, **R. Sarhaddi** and M. Khorashadizadeh, "A statistical view on status of bismuth and yttrium-based high temperature superconductors in the twenty-first century A.D.", The 5th National Conference on Advances in Superconductivity (NCAS5), Urmia University, Urmia, Iran, May 3-4, 2016 (In Persian). [link](#)
10. **R. Sarhaddi**, S.M. Alavi Sadr, H. Arabi and F. Pourarian, "Study of structural, microscopic and hydrogen properties of $LaNi_5$ and $Mm(Ni,Co,Mn,Al)_5$ hydrogen storage alloys", The 3rd Hydrogen and Fuel Cell Conference (HFCC3), Iranian Research Organization for Science and Technology, Tehran, Iran, May 12-13, 2015 (In Persian). [link](#)
11. S.M. Alavi Sadr, **R. Sarhaddi** and A. Amirabadizadeh, "First principles study of Mg_2FeH_6 hydride by using density functional theory", The 22th Symposium of Crystallography and Mineralogy of Iran (SCM22), Shiraz University, Shiraz, Iran, January 28-29, 2015 (In Persian).
12. S.M. Alavi Sadr and **R. Sarhaddi**, "Effect of Si substitution on structural, electronic and magnetic properties of Heusler compounds $Co_2TiAl_{1-x}Si_x$ ($x= 0-1$)", The 22th Symposium of Crystallography and Mineralogy of Iran (SCM22), Shiraz University, Shiraz, Iran, January 28-29, 2015 (In Persian).

13. A. Amirabadizadeh, Z. Vahedipanah, R. Mardani and **R. Sarhaddi**, "Investigation of atmosphere effect on structural, microscopic, electric and magnetic properties of Co-Fe thin films synthesized by spray pyrolysis", The 22th Symposium of Crystallography and Mineralogy of Iran (SCM22), Shiraz University, Shiraz, Iran, January 28-29, 2015 (In Persian).
14. A. Amirabadizade, M.R. Rasouli and **R. Sarhaddi**, "Effect of calcinations temperature on the structural and magnetic properties off $\text{Co}_{0.5}\text{Mn}_{0.5}\text{Fe}_2\text{O}_4$ ferrite nanoparticles prepared by sol-gel auto-combustion", The 21th Symposium of Crystallography and Mineralogy of Iran (SCM21), University of Sistan and Baluchestan, Zahedan, Iran, March 12-13, 2014 (In Persian).
15. **R. Sarhaddi**, S.M. Zareii, H. Arabi and F. Pourarian, "Design and fabrication of an apparatus for determination of hydrogen properties by volumetric method and study of structural and hydrogen properties of LaNi_5 intermetallic alloy". The First National Conference of Hydrogen, Malek-Ashtar University of Technology, Isfahan, Iran, November 7, 2013 (In Persian). [link](#)
16. **R. Sarhaddi**, H. Arabi, S.M. Zareii and F. Pourarian, "Investigation of hydrogen absorption on structural, thermodynamics and magnetic properties of ZrFe_2 compound", The Annual Physics Conference of Iran, University Of Birjand, Birjand, Iran, August 26-29, 2013 (In Persian). [link](#)
17. **R. Sarhaddi**, S.M. Zareii, H. Arabi and F. Pourarian, "Study of the hydrogen absorption properties of LaNi_5 intermetallic alloy", The Annual Physics Conference of Iran, University Of Birjand, Birjand, Iran, August 26-29, 2013 (In Persian). [link](#)
18. **R. Sarhaddi**, H. Arabi, S.M. Zareii and F. Pourarian, "Investigation of physical properties of ZrFe_2 intermetallic compounds base on density functional theory (DFT)", The Annual Physics Conference of Iran, University Of Birjand, Birjand, Iran, August 26-29, 2013 (In Persian). [link](#)
19. S.M. Zareii, **R. Sarhaddi**, H. Arabi and F. Pourarian, "Investigation of structural, microscopic and magnetic properties of LaNi_5 intermetallic alloy", The Annual Physics Conference of Iran, University Of Birjand, Birjand, Iran, August 26-29, 2013 (In Persian). [link](#)
20. A. Amirabadizade, M.R. Rasouli and **R. Sarhaddi**, "Structural and magnetic properties of $\text{Co}_{1-x}\text{M}_x\text{Fe}_2\text{O}_4$ (M= Mn, Ni; $x= 0, 0.5$) ferrite nanoparticles prepared via sol-gel auto-combustion method", The Annual Physics Conference of Iran, University Of Birjand, Birjand, Iran, August 26-29, 2013 (In Persian).
21. A. Amirabadizade, M.R. Rasouli and **R. Sarhaddi**, "Structural and magnetic properties of $\text{Co}_{1-x}\text{M}_x\text{Fe}_2\text{O}_4$ (M= Mn, Ni; $x=0, 0.5$) ferrite nanoparticles", The 14th Iranian Physics Education Conference (PEC14), Farhangiyan University, Tehran, Iran, September 4-6, 2013 (In Persian). [link](#)
22. **R. Sarhaddi**, H. Arabi and F. Pourarian, "Investigation of hydrogen absorption on structural, thermodynamic and electronic properties of XCr_2 (X=Ti, Zr) binary compounds", The 11th Condensed Matter Physics Conference of Iran, University of Shahrood, Shahrood, Iran, January 26-27, 2013 (In Persian). [link](#)
23. **R. Sarhaddi**, H. Arabi and F. Pourarian, "Preparation and structural, microscopic and magnetic characterization of $\text{Zr}_{0.5}\text{Ti}_{0.5}\text{Cr}_2$ ternary alloy", The 20th Symposium of Crystallography and Mineralogy of Iran (SCM20), Shahid Chamran University of Ahvaz, Ahvaz, Iran, January 30-31, 2013 (In Persian). [link](#)

24. S.M. Zareii, H. Arabi, **R. Sarhaddi** and F. Pourarian, "Effect of Cu substitution on structural and electronic properties of LaNi₅ hydride alloy", The 20th Symposium of Crystallography and Mineralogy of Iran (SCM20), Shahid Chamran University of Ahvaz, Ahvaz, Iran, January 30-31, 2013 (In Persian). [link](#)
25. H. Arabi, F. Pourarian and **R. Sarhaddi**, "Structural and microscopic properties of LaNi₅H_x intermetallic Hydride", The 12th School on Synchrotron Radiation: Fundamentals, Methods and Applications, Grado, Italy, September 16-27, 2013. DOI: [10.13140/RG.2.1.3359.2807](https://doi.org/10.13140/RG.2.1.3359.2807)
26. H. Arabi, **R. Sarhaddi**, E. Roohani, S. Sudkhah, A. Shaabani. M. Komeili and A.R. Mohammadnezad, "The effect of Mn substitution on structural and magnetic properties of strontium hexaferrite nanoparticles", The 15th Iranian Physical Chemistry Conference, University of Tehran, Tehran, Iran, September 3-6, 2012.
27. H. Arabi, A. Shaabani, S. Sudkhah, E. Roohani, **R. Sarhaddi**, M. Komeili and A.R. Mohammadnezad, "Effects of calcination temperature on the structural and magnetic properties of SrFe₁₂O₁₉ nanoparticles synthesized by combustion sol-gel method", 15th Iranian Physical Chemistry Conference, University of Tehran, Tehran, Iran, September 3-6, 2012.
28. S. Akbarnezhad, S.M. Mousavi, M. Pakizeh, N. Shahtahmasebi, **R. Sarhaddi** and Z. Momeni Larimi, "Effect of different calcination temperatures on size and energy band gap of alumina-titania nano particles synthesized by sol-gel method", The 9th Condensed Matter Physics Conference of Iran, Shahid Chamran University of Ahvaz, Ahvaz, Iran, February 3-4, 2009 (In Persian). [link](#)
29. Z. Momeni Larimi, N. Shahtahmasebi, M. Rezaei Roknabadi, M. Karimipour and **R. Sarhaddi**, "Aluminum oxide nano particles preparation with uniform distribution below 10 nm by sol-gel method and study their structural, optical and electrical properties", The 9th Condensed Matter Physics Conference of Iran, Shahid Chamran University of Ahvaz, Ahvaz, Iran, February 3-4, 2009 (In Persian). [link](#)
30. **R. Sarhaddi**, N. Shahtahmasebi, M. Rezaei Roknabadi, A. Kompany, "Synthesis of indium tin oxide nano particles by sol-gel method and effect of post-annealing on size and band gap of nanoparticle", The 4th Nanotechnology Student Conference, Razi University, Kermanshah, Iran, October 8-10, 2008 (In Persian).
31. **R. Sarhaddi**, N. Shahtahmasebi, M. Rezaei Roknabadi, M.M. Bagheri Mohagheghi and Z. Momeni Larimi "Synthesis of indium tin oxide nano particles by sol-gel method and their structural properties", The Annual Physics Conference, University Of Kashan, Kashan, Iran, August 25-28, 2008 (In Persian). [link](#)
32. **R. Sarhaddi**, N. Shahtahmasebi, M. Rezaei Roknabadi, M.M. Bagheri Mohagheghi and Z. Momeni Larimi, "Effects of calcination temperature on indium tin oxide nano particles synthesized by sol-gel method", The 2nd International Congress of Nanoscience and Nanotechnology (ICNN2008), University of Tabriz, Tabriz, Iran, October 28-30, 2008. [link 1](#), [2](#)
33. Z. Momeni Larimi, N. Shahtahmasebi, M.R. Alinejad, M.M. Bagheri Mohagheghi and **R. Sarhaddi**, "Synthesize and study structure and optical of properties Al₂O₃ nano particles", 2nd International Congress of Nanoscience and Nanotechnology (ICNN2008), University of Tabriz, Tabriz, Iran, October 28-30, 2008. [link 1](#), [2](#)

Academic Supervision Activity

M.Sc. Students:

1. Mohammad Amin Lashkari, "Investigation of electronic structures, magnetic properties and half-metallicity of quaternary Heusler compounds $ZrVTiZ$ ($Z = Si, Ge$)", (March 2018-To be continued).
2. Ghasem Naghibifar, "Investigation of the structural, electronic and magnetic properties of the Ti_2VZ ($Z = Al, Si$) Heusler compounds using density functional theory", (Winter 2017). [link](#)
3. Zohre Salighe, "Synthesis and investigation of magnetic properties of ferrofluid based on cobalt ferrite nanoparticles", (Fall 2016).
4. Javad Ramezani Roudy, "Synthesis and investigation of physical properties of $NiFe_2O_4$ ferrite thin film", (Summer 2016). [link](#)
5. Amin Jahangiri, "Investigation of CH_4 interaction with MOF-5 and its implications for the design and development of new MOFs", (Fall 2015).
6. Roohollah Fazeli Abbas-Abad, (Summer 2014). [link](#)
7. Mohammad Reza Rasouli, "Synthesis and investigation of physical properties of $Co_{0.5}Ni_{0.5-x}Mn_xFe_2O_4$ nanostructure", (Summer 2013). [link](#)
8. Saeedeh Sudkhah Mohammadi, "Synthesis of strontium hexaferrite nanoparticles and investigation the effect of cobalt-manganese impurity on their physical and magnetic properties", (Summer 2012). [link](#)

Ph.D. Students:

1. Moazameh Hassanzadeh, "Investigation of magnetoimpedance response of cobalt-based amorphous ribbons containing tungsten", (2018-To be continued).
2. Afsaneh Zareie, "Preparation and investigation of band structure and physico-chemical properties of nanostructured silver molybdate and the effects of dopants on its applications", (2016-To be continued).
3. Mohammad Reza Rasouli, "The effect of different configurations on magneto impedance response of Co-based amorphous magnetic alloys", (Summer 2017).

Membership

- ❖ Member of Physics Society of Iran (PSI) ([link](#))
- ❖ Member of Iranian Nanotechnology Society (INS) ([link](#))
- ❖ Member of Crystallography and Mineralogy Society of Iran (CMSI) ([link](#))
- ❖ Member of Iranian Hydrogen and Fuel Cell Association (IHFCA) ([link](#))
- ❖ Member of Iranian Laboratory Research Association ([link](#))
- ❖ Reviewer of [Physica E: Low-dimensional Systems and Nanostructures](#)
- ❖ Reviewer of [Iranian Journal of Hydrogen and Fuel Cell](#)
- ❖ Reviewer of [Iranian Journal of Crystallography and Mineralogy](#)
- ❖ Reviewer of [International Journal of Materials Research](#)
- ❖ Reviewer of [Nano-Structures & Nano-Objects](#)
- ❖ Reviewer of [Journal of Nanostructures](#)
- ❖ Reviewer of [Journal of Nanostructure in Chemistry](#)
- ❖ Reviewer of [Indian Journal of Science and Technology](#)

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