Curriculum Vitae

Personal information

Name: Ahmad Gholizadeh
Birthday Data: 1980
Birth Place: Mazandaran, Iran
Gender: Male
Nationality: Iranian
Martial Status: Married
Cell phone: +98-912-0816781
E-mail: gholizadeh@du.ac.ir , ah_gh1359@yahoo.com

Education:

Visiting Scholar: Department of Physics, University of California, Berkeley, U.S.: Prof. Frances Hellman

Ph.D. (Study opportunity): Institute of Solid State Physics, Vienna University of Technology, Austria: Prof. Roland Grössinger

Ph.D.

Solid State Physics

Faculty of Science, Ferdowsi University of Mashhad, Mashhad, Iran, 1385/2006 - 1390/2011

Thesis: Magnetoelastic properties of RE_3 (Fe, Co, M)$_{29}$ (RE = Tb, Y, Ce, Pr and M = V, Cr, Ti) alloys

Supervisor: Naser Tajabor

Subject Class: 3:29 Intermetallic Compounds

M.Sc.

Solid State Physics

Faculty of Science, Ferdowsi University of Mashhad, Mashhad, Iran, 1382/2003 - 1385/2006

Thesis: Influence of N_2-and Ar-ambient annealing on the physical properties of SnO_2:Co transparent conducting films prepared by spray pyrolysis technique

Supervisor: Mohammad Reza Alinejad

Subject Class: Dilute Magnetic Semiconducting Oxides

B.Sc.

Solid State Physics

Faculty of Science, Kharazmi University, Tehran, Iran, 1378/2009 - 1382/2003

Journal Papers

1. Amini, M., Gholizadeh, A., *Shape control and associated magnetic and dielectric properties of MFe12O19 (M = Ba, Pb, Sr) hexaferrites*, Journal of Physics and Chemistry of Solids Volume 147, December 2020, 109660. (Q2)

2. Morteza Beyranvand, Ahmad Gholizadeh, *Facile and low-cost synthesis of flexible nano-generators based on polymeric and porous aerogel materials*, Current Applied Physics 20 (2020) 226–231. (Q2)

3. Leyla Esmaili; Ahmad Gholizadeh, *The effect of Nd and Zr co-substitution on structural, magnetic and photocatalytic properties of Bi1-xNdxFe1-xZrxO3 nanoparticles.* Materials Science in Semiconductor Processing Volume **118**, 1 November 2020, 105179. (Q1)

4. Fatemeh Soleimani, Mehdi Salehi, Ahmad Gholizadeh, *Comparing Catalytic Activity of MgMnO3 and SrMnO3 Nanocatalyst for Synthesis of Polyhydroquinoline and New Derivatives via Hantzsch Reaction*, Iranian Journal of Science and Technology, Transactions A: Science volume 44, pages1011–1023(2020) https://doi.org/10.1007/s40995-020-00920-5. (Q2)

5. Ahmad Gholizadeh, Morteza Beyranvand, *Investigation on the structural, magnetic, dielectric and impedance analysis of Mg0.3-xBaxCu0.2Zn0.5Fe2O4 nanoparticles*, Physica B: Condensed Matter Volume 584, 1 May 2020, 412079. (Q2)

6. Morteza Beyranvand & Ahmad Gholizadeh, *Structural, magnetic, elastic and dielectric properties of Mn 0.3-x Cd x Cu 0.2 Zn 0.5 Fe 2 O 4 nanoparticles*, Journal of Materials Science: Materials in Electronics volume 31, pages5124–5140(2020). (Q2)

7. Fatemeh Noori, Ahmad Gholizadeh, *Synthesis and investigation of structural, optical, and photocatalytic properties of BiFeO3/reduced graphene oxide nanocomposites*, Iranian Journal of Crystallography and Mineralogy, 28, pp.527, Spring 1399/2020.

8. Fatemeh Noori, Ahmad Gholizadeh, *Structural, optical, magnetic properties and visible light photocatalytic activity of BiFeO3/graphene oxide nanocomposites*, Mater. Res. Express **6** (2019) 1250g1. (Q2)

9. Bahare Sadeghi Far, Gholamhossein Grivani, Aliakbar Dehno Khalaji, Mahdi Khorshidi, Ahmad Gholizadeh, *A new six coordinated oxidovanadium(IV) Schiff base complex: Synthesis, characterization, crystal structure, thermal study and antibacterial activity*, Journal of Molecular Structure Volume **1197**, 5 December 2019, Pages 361-368. (Q2)

10. Fatemeh Soleimani, Mahdi Salehi, Ahmad Gholizadeh, *Synthesis and characterization of new spinel Mn0.5Cu0.5Cr2O4 and degradation of Malachite Green from wastewater in comparison with CuCr2O4*, International Journal of Nano Dimension Volume **10**, Issue 3 Summer 2019 Pages 260-271.

11. Zahra Ramezani, Azim Malekzadeh, Mahnaz Ghiasi, Ahmad Gholizadeh, Elham Ghiasi, Structural, *Magnetic and Catalytic Properties of Non-Stoichiometric Lanthanum Ferrite Nano-Perovskites in Carbon Monoxide Oxidation*, J. Nanoanalysis., **6(1**): 21-32, Winter 2019.

12. Soleimani, Fatemeh, Salehi, Mehdi Ahmad Gholizadeh, *Comparison of visible light photocatalytic degradation of different pollutants by (Zn, Mg)xCu1-xBi2O4 nanoparticles*. Ceramics International **45** (2019) 8926–8939. (Q1)

13. Soleimani, Fatemeh, Salehi, Mehdi Ahmad Gholizadeh, *Synthesize and characterization of Ni0.5Cu0.5Cr2O4 nanostructure for discoloration of Aniline Dye under visible light from wastewater*, Iranian Journal of Chemistry and Chemical Engineering, Volume 39, Issue 2 - Serial Number 100 March and April 2020 Pages 11-19. (Q3)

14. Amir Abharya, Ahmad Gholizadeh, *Structural, optical and magnetic feature of core-shell nanostructured Fe3O4@GO in photocatalytic activity*. Iranian Journal of Chemistry and Chemical Engineering, Volume 39, Issue 2 - Serial Number 100 March and April 2020 Pages 49-58. (Q3)

15. Hojat Khedri, Ahmad Gholizadeh, *A comparative study on structural, magnetic and elastic properties of M0.3Cu0.2Zn0.5Fe2O4 (M = Cu, Mn, Fe, Co, Ni, Mg) nanoparticles*. Applied Physics A (2019) 125:709 https://doi.org/10.1007/s00339-019-3010-1. (Q2)

16. Rozhin Irandoust, Ahmad Gholizadeh, *A comparative study of the effect of the non-magnetic and magnetic trivalent rare-earth ion substitutions on Bismuth ferrite properties: correlation between the crystal structure and physical properties*. Solid State Sciences Volume 101, March 2020, 106142. (Q2)

17. Ahmad Gholizadeh, Azim Malekzadeh, Faiz Pourarian: *Rapid and efficient synthesis of reduced graphene oxide nano-sheets using CO ambient atmosphere as a reducing agent*. Journal of Materials Science Materials in Electronics 29[22] (2018) 19402–19412, DOI:10.1007/s10854-018-0069-y.

18. Nastaran Shamgani, Ahmad Gholizadeh: *Structural, magnetic and elastic properties of Mn0.3-xMgxCu0.2Zn0.5Fe3O4 nanoparticles*. Ceramics International 09/2018; DOI:10.1016/j.ceramint.2018.09.158.

19. Sasan Ganjehie, Ahmad Gholizadeh, Ahmad Ketabi, mehdi kalagar: *Microstructural Properties and Swelling of Hydrogels Poly(acrylic Acid- Acrylamide) Connected With Watermelon Shell Powder and Cucumber Shell Powder-Bentonite or Zeolite* , Journal of Applied Chemistry,14(51) 2018, 63.

20. Ahmad Gholizadeh, S Ahmad Ketabi, Sasan Ganjehie: *Microstructure and Swelling Behaviour of Poly (Acrylamide-co-Acrylic Acid) based Nanocomposite Superabsorbent Hydrogels*, Journal of Nanoanalysis, 5(3): 195-201 Summer 2018.

21. Ahmad Gholizadeh: *Structural and mechanical properties of AFe2O4 (A = Zn, Cu0.5Zn0.5, Ni0.3Cu0.2Zn0.5) nanoparticles prepared by citrate method at low temperature*, Journal Nanoanalysis., 5(1): 7-16 Spring 2018.

22. Ahmad Gholizadeh: *Effect of sintering atmosphere and temperature on mechanical properties of Ni-Cu-Zn ferrite nanoparticles*, Metallurgical Engineering 2018: 20(4): 304-310.

23. Ahmad Gholizadeh, Soulmaz Mahmoudi: *Effect of non-magnetic ions substitution on the structure and magnetic properties of Y3-xSrxFe5-xZrxO$_{12}$ nanoparticles*. Journal of Magnetism and Magnetic Materials 456 (2018) 46–55. (Q1)

24. Ahmad Gholizadeh: *A comparative study of the physical properties of Cu-Zn ferrites annealed under different atmospheres and temperatures: Magnetic enhancement of Cu0.5Zn0.5Fe2O4 nanoparticles by a reducing atmosphere*. Journal of Magnetism and Magnetic Materials 12/2018; 452. (Q1)

25. Leila Esmaili, Ahmad Gholizadeh: *Effect of temperature and concentration of bismuth nitrate mole on structural, magnetic and photocatalytic properties of bismuth ferrite*, Iranian Journal of Crystallography and Mineralogy, 26, pp.1013, Spring 1397/2018.

26. Ahmad Gholizadeh: *The effects of A/B-site substitution on structural, redox and catalytic properties of lanthanum ferrite nanoparticles*. Journal of Materials Research and Technology 12/2018, DOI:10.1016/j.jmrt.2017.12.006. (Q1)

27. Ahmad Gholizadeh, Hamid Yousefi, Zahra MirbeigSabzevari, Azim Malekzadeh: *Structural features of La0.55Ca0.45A0.50Co0.50O3 (A = Mg, Mn) nanoparticles over photo-degradation of methyl blue*, Journal of Nanoanalysis 4(4): 324-333 Winter 2017.

28. Fatemeh Soleimani, Mehdi Salehi, Ahmad Gholizadeh: *Hydrothermal synthesis, structural and catalytic studies of CuBi2O4* nanoparticles, Journal of Nanoanalysis, 4(3): 239-246 Autumn 2017.

29. Ahmad Gholizadeh, Azim Malekzadeh: *Structural and redox features of La 0.7 Bi 0.3 Mn 1− x Co x O 3 nanoperovskites for ethane combustion and CO oxidation*. International Journal of Applied Ceramic Technology, 2017;14:404–412.

30. Ahmad Gholizadeh: *A comparative study of physical properties in Fe 3 O 4 nanoparticles prepared by coprecipitation and citrate methods*. Journal of the American Ceramic Society, 100 [8] (2017) 3577–3588. (Q1)

31. Ahmad Gholizadeh: *La 1− x Ca x Co 1− y Mg y O 3 Nano-Perovskites as CO Oxidation Catalysts: Structural and Catalytic Properties*. Journal of the American Ceramic Society, 2017; 100: 859–866. (Q1)

32. Ahmad Gholizadeh, Elahe Jafari: *Effects of sintering atmosphere and temperature on structural and magnetic properties of Ni-Cu-Zn ferrite nano-particles: Magnetic enhancement by a reducing atmosphere*. Journal of Magnetism and Magnetic Materials 09/2016; 422:328–336. (Q1)

33. Ahmad Gholizadeh, Azim Malekzadeh, Mahnaz Ghiasi: *Structural, magnetic and catalytic properties of Co substituted manganite nano-perovskites*. Bulgarian Chemical Communications 09/2016; 48(3):430.

34. Mehdi Salehi, Fateme Ghasemi, Maciej Kubicki, Asadollah Asadi, Mahdi Behzad Mohammad Hadi Ghasemi, Ahmad Gholizadeh: *Synthesis, characterization, structural study and antibacterial activity of the Schiff bases derived from sulfanilamides and related copper(II) complexes*. Inorganica Chimica Acta 07/2016; 453:238.

35. Ahmad Gholizadeh, Hamid Yousefi, Azim Malekzadeh, Faiz Pourarian: *Calcium and strontium substituted lanthanum manganite–cobaltite [La_{1-x}(Ca,Sr)xMn0.5Co0.5O3] nano-catalysts for low temperature CO oxidation*. Ceramics International 07/2016; 42(10):12055–12063. (Q1)

36. Ahmad Gholizadeh, Azim Malekzadeh, Mahnaz Ghiasi: *Structural and magnetic features of La0.7Sr0.3Mn1-xCoxO3 nano-catalysts for ethane combustion and CO oxidation*. Ceramics International 04/2016; 42(5):5707–5717. (Q1)

37. Hojat Khedri, Ahmad Gholizadeh, Azim Malekzadeh: *Effect of annealing temperature on the structural, optical and catalytic properties of Cu-Zn ferrite nanoparticles*, Iranian Journal of Crystallography and Mineralogy, 24, pp.297, Spring 1395/2016.

38. Ahmad Gholizadeh: *X-Ray Peak Broadening Analysis in LaMnO3+δ Nano-Particles with Rhombohedral Crystal Structure*, Journal of Advanced Materials and Processing, Vol. 3, No. 3, 2015, 71-83.

Conference Papers

۱- محبوبه امینی، احمد قلی زاده، شرایط بهینه ساخت نانوذرات هگزافریت باریم نوع *M* به روش سیترات نیترات، بیست و ششمین همایش ملی بلورشناسی و کانی شناسی ایران – دانشگاه بین المللی امام خمینی - ۳ و ۴ بهمن ماه ۹۷.

۲- احمد قلی‌زاده، سخنرانی کلیدی مفاهیم اندازه بلورک، اندازه دانه و اندازه دانه مغناطیسی و روش‌های تعیین آن‌ها، بیست و پنجمین همایش ملی بلورشناسی و کانی‌شناسی ایران – دانشگاه یزد- ۴ و ۵ بهمن ماه ۹۶.

3- Ahmad Gholizadeh, Soulmaz Mahmoudi, "*Optimal conditions for the production of pure yttrium iron garnet by citrate nitrate method*" 25th Symposium of Crystallography and Mineralogy of Iran, Yazd University, Winter 1396/2018.

4- Ahmad Gholizadeh, Nastaran Shamgani "*Structural properties of Mgx Mn3.0-xCu0.2Zn0.5Fe3O4 (x=0.0, 0.05, 0.01, 0.15, 0.2, 0.25, 0.3) nanopatricles*" 25th

Symposium of Crystallography and Mineralogy of Iran, Yazd University, Winter 1396/2018.

۵- احمد قلی‌زاده، سخنرانی کلیدی بلورشناسی از گذشته تا حال، کنفرانس بلورشناسی و کانی‌شناسی ایران دانشگاه دامغان – دانشگاه شاهرود- ۷ بهمن ماه ۹۵.

۶- امیر ابهریا، احمد قلی‌زاده، روش ساخت نانوساختارهای پوسته-هسته $Fe_3O_4@RGO@ZnO$ – دانشگاه شاهرود- ۷ بهمن ماه ۹۵.

۷- روژین ایراندوست، احمد قلی‌زاده، شرایط بهینه تهیه نانوذرات چندفرویی $BiFeO_3$ به روش سیترات، کنفرانس بلورشناسی و کانی‌شناسی ایران - دانشگاه شاهرود - ۷ بهمن ماه ۹۵.

8- Gholizadeh, Ahmad, "*X-Ray Peak Broadening Analysis in Fe_3O_4 Nano-Particles*" 23rd Symposium of Crystallography and Mineralogy of Iran, Damghan University, Winter 1394/2016.

۹- الهه جعفری، احمد قلی‌زاده، اثر دمای بازپخت بر ویژگی‌های ساختاری، اپتیکی و مغناطیسی نانوذرات فریت نیکل- مس- روی، کنفرانس بلورشناسی و کانی‌شناسی ایران، دانشگاه دامغان – ۷ بهمن ماه ۹۴.

List of Books

۱- احمد قلی‌زاده، ترجمه کتاب*''X-Ray Diffraction Crystallography''*، ''بلورشناسی با پراش پرتو ایکس'' انتشارات دانشگاه دامغان، ۱۳۹۵.

List of Projects

۱- ساخت نانوذرات $La_{0.7}Bi_{0.3}Mn_{1-y}Co_yO_3$ $(y = 0.0, 0.3, 0.6, 1.0)$ به عنوان کاتالیست اکسایش منواکسیدکربن و هیدروکربن‌ها، دانشگاه دامغان، ۱۳۹۳ کد طرح ۹۱/*phys*/۱۱۱/۲۰۵.

۲- ساخت نانوذرات پروسکیت مکعبی

$La_{0.7}Sr_{0.3}Mn_{1-y}Co_yO_3$ و $LaMn_{1-y}Co_yO_3$ $(y = 0.0, 0.25, 0.5, 0.75, 1.0)$

به عنوان کاتالیست اکسایش مونوکسیدکربن و هیدروکربن ها، صندوق حمایت از پژوهشگران و فناوران کشور، ۱۳۹۵ کد طرح ۹۰۰۰۷۲۲۸.

۳- مطالعه مقایسه‌ای رفتار فوتوکاتالیستی سیستم‌های فوتوفنتون Fe_3O_4 و $Fe_3O_4@rGO@ZnO$ در تخریب متیل اورانژ و متیل بلو، صندوق حمایت از پژوهشگران و فناوران کشور، ۱۳۹۸ کد طرح ۹۵۸۰۶۵۱۶.

۴- طرح کاربردی ساخت داخل "دستگاه سرماپا برای اندازه گیری مقاومت در پایین دمای اتاق"، دانشگاه دامغان، ۱۳۹۷.