

CURRICULUM VITAE

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EDUCATIONAL HISTORY

- PhD in Materials Science and Engineering (1996-2002), Materials & Energy Research Center (MERC), Alborz/ Iran
- M.Sc. in Materials Engineering (Ceramics), (1993-1996), Materials & Energy Research Center (MERC), Alborz/Iran.
- B.Sc. in Materials Engineering (Ceramics), (1987-1993) Iran University of Science & Technology, Tehran/Iran.

AWARDS & OFFERS

- Highly commended award" pigments & Resins Technology", July 2008, Emerald Publications, England.
- First Class Honors, PhD Student, MERC.

PROFESSIONAL EXPERIENCES

- **PhD Program**
Properties of AlN-Al₂O₃ Composites: Effect of Microstructure & composition.
July 1998-Aug 2002, Materials & Energy Research Center, Alborz/Iran and
Technical University of Clausthal, Clausthal-Zellerfeld Germany.
Supervisors: Prof. F. A. Moztarzadeh, Prof. Y. G. Heinrich
- **M.Sc. Program**
The Effect of Copper Slag on Properties of Unglazed Floor Tiles.
June 1994 - Sep1996, Materials & Energy Research Center, Alborz/Iran.
Supervisor: Prof. V. K. Marghousian.

RESEARCH ASSISTANTSHIP

- Determination of Hydroxyapatite lattice constant by Cohn method and FOXPRO software, 1997.
- Preparation of luminescence pigments on the basis of silicates & aluminates, 2006.
- Injection mold casting method to build ceramic shell equipment in laboratory scale, 2007.
- Manufacture of dense alumina parts with Injection Molding Method, 2007.
- Manufacturing of solid zirconia electrolytes used as Oxygen Gas Sensor, 2005.

EMPLOYMENT HISTORY

| | |
|---------------|--|
| 2002- Present | Faculty member, Ceram. Div., MERC |
| 2015-2017 | Vice President; Technology, MERC |
| 2010-2012 | Director of Graduated Studies, MERC |
| 2009-2012 | Industrial Consultant, Turbine Blade Engineering Co., MAPNA Group, Tehran, Iran. |
| 2006-2007 | Industrial Consultant, Chinandegan Refractory Co., Marand, Iran. |
| 2004-2005 | Industrial Consultant, Sina Tile & Sanitary Porcelain Co, Saveh, Iran |
| 1993-2002 | Research Assistant, Ceram. Div., MERC |
| 1990-1991 | Lab Manager, Cord Sanitary Porcelain Co., Kermanshah, Iran. |

JOURNAL PUBLICATIONS

1. O.E. Oskouyi, **A. Maghsoudipour**, M. Hasheminasari, Preparation of YSZ electrolyte coating on conducting porous Ni–YSZ cermet by DC and pulsed constant voltage electrophoretic deposition process for SOFCs applications, *Journal of Alloys and Compounds* , Volume 795, 30 July 2019, Pages 361-369.
1. O.E. Oskouyi, M. Shahmiri, **A. Maghsoudipour**, M. Hasheminasari, Pulsed constantvoltage electrophoretic deposition of YSZ electrolyte coating on conducting porous Ni–YSZ cermet for SOFCs applications, *Journal of Alloys and Compounds*, 785,15 May 2019, 220-227.
2. Sh. Moghaddas, **A. Maghsoudipour**, T. Ebadzadeh, "Synthesis of $a\text{Fe}_{1-x}\text{Ni}_x\text{Cu}_x\text{O}_{3-\delta}$ new ceramic composition as solid oxide fuel cell cathode by microwave-assisted solid-statereaction"*Asia-Pacific J.Chem.Eng.*,(2018), <https://doi.org/10.1002/apj.2207>.

3. Z. Khakpour, H. Pourfarahani, **A. Maghsoudipour**, T. Ebadzadeh, " Synthesis and deposition of hematite nanoparticles on Fluorine-doped Tin Oxide (FTO) glass substrates" *Materialstoday PROCEEDINGS*, (2018) 5, 7, Part 3, 15828-15835.
4. Y. Ganjkanlou, V. Crocellà, M. Kazemzad, G. Berlier, T. Ebadzadeh, I. Safaei, A. Kolahi, **A. Maghsoudipour**" Hydrothermal–electrochemical deposition of semiconductor thin films: the case of CuIn (Al)Se₂ compound" *J. Mat. Sci.: Mat.in Electr.* (2017), 28, 20, 15596–15604.
5. R. Irankhah, B. Raissi, **A. Maghsoudipour**, A. Irankhah, S. Ghashghai "NiFe₂O₄ spinel protection coating for high-temperature solid oxide fuel cell interconnect application " *J. Mat. Eng. Per.* (2016)25, 4, 1515-1525.
6. F.S. Torknik, M. Keyanpour-Rad, **A. Maghsoudipour**, G.M. Choi, " Effect of rhodium infiltration on the microstructure and performance of Ni/Ce_{0.8}Gd_{0.2}O_{2-δ} cermet anode for low temperature solid oxide fuel cell" *Iranian J. Mat. Sci. Eng.*, (2016)13,1, 43-49.
7. F. Heydari, **A. Maghsoudipour** ,M. Alizadeh, Z. Khakpour, M. Javaheri "Modeling of thermal expansion coefficient of perovskite oxide for solid oxide fuel cell cathode " *Applied Physics A* ,(2015)120, 4,1625-1633.
8. Y. Ganjkanlou, T. Ebadzadeh, M. Kazemzad, **A. Maghsoudipour**, M. Kianpour-Rad "Effect of pH on the electrodeposition of Cu(In,Al) Se₂ from aqueous solution in presence of citric acid as complexing agent" *Surf. Rev. and Lett*, (2015)22, 05, article ID 1550057.
9. I.A. Borojeni, B. Raissi, **A. Maghsoudipour**, M. Kazemzad, T. Talebi, "Fabrication of solid oxide fuel cells (SOFCs) electrolytes by electrophoretic deposition (EPD) and optimizing the process " *Key Eng. Mat.*, (2015)654,83-87.
10. F. Heydari , **A. Maghsoudipour** , M. Alizadeh, Z. Khakpour, M. Javaheri," Synthesis and evaluation of effective parameters in thermal expansion and evaluation coefficient of Ln_{0.6}Sr_{0.4}Co_{0.2}M_{0.8}O_{3-δ} (Ln=La,Nd and M=Mn,Fe) perovskite oxide, *Bull. Mat. Sci.*, (2015)38, 4, 1009-1014.
11. A. Ahmadi, A.A. Youzbashi, A. Nozad Golikand, T. Ebadzadeh, and **A. Maghsoudipour**" To evaluate the application of alkoxide sol-gel method in fabrication of 3YSZ-MWCNTs nanocomposites, in an attempt to improve Its mechanical properties" *J. of Nanomaterials*, (2014) article ID 867367.
12. R. Irankhah , B. raissi, **A. Maghsoudipour**, A. Irankhah," Co₃O₄ spinel protection coating for solid oxide fuel cell interconnect application" *Iranian J. Hydrogen & Fuel Cell* (2014) 2,121-131.
13. F. S. Torknik, **A. Maghsoudipour**, M. Keyanpour-Rad, G. M. Choi, S. H. Oh, G.Y. Shin" Microstructural refinement of Ni/Ce_{0.8}Gd_{0.2}O_{2-δ} anodes for low-temperature solid oxide fuel cell by wet infiltration loading of PdCl₂ " *Ceram. Int.*, (2014) 40, 8, Part A, 12299-12312.

14. F.S. Torknik, M. Keyanpour-Rad, A. **Maghsoudipour**, G. M. Choi "Effect of microstructure refinement on performance of Ni/Ce_{0.8}Gd_{0.2}O_{1.9} anodes for low temperature solid oxide fuel cell" *Ceram. Int.*, (2014)40, 1, Part B, 1341-1350.
15. Z. Khakpour, A.A. Youzbashi, **A. Maghsoudipour**, " Influence of Gd³⁺ and Dy³⁺ co-doping and sintering regime on enhancement of electrical conductivity of ceria-based solid electrolyte" *Ionics*, (2014)20,10,1407-1417.
16. A. Ahmadi, A.A. Youzbashi, A. Nozad, **A. Maghsoudipour**, T. Ebadzadeh, " To evaluate the applicability of alkoxide sol-gel method in synthesis of YSZ nanopowder through appropriate hydrolysis route" *Iranian J. Mat. Sci. Eng.*, (2014)11,4,55-62.
17. F. Heydari, **A. Maghsoudipour**, Z. Hamnabard, S. Farhangdoust" Evaluation on properties of CaO–BaO–B₂O₃–Al₂O₃–SiO₂ glass–ceramic sealants for intermediate temperature solid oxide fuel cells " *J. Mat. Sci. & Tech.*, (2013)29, 1, 49-54.
18. S. Fadaie, M.M. Kashani-Motlagh, **A. Maghsoudipour**, B. Faridnia, " Effect of dopant concentration and particle size on fluorescence properties of Y₂O₃:Eu³⁺ derived in presence of NIPAM/AAC copolymer" *J. Mat. Sci.: Mat. Electronics*, (2013)24,3,974-978.
19. F. Heydari, **A. Maghsoudipour**, Z. Hamnabard, S. Farhangdoust" Mechanical properties and microstructure characterization of zirconia nanoparticles glass composites for SOFCs sealant" *Mat. Sci. and Eng.: A*, (2012)552, 30,119-124.
20. Z. Hamnabard, Z. Khalkhali, S.S. Alavi, S. Baghshahi, **A. Maghsoudipour**, "Photoluminescence and microstructural properties of SiO₂-ZnO-B₂O₃ system containing V₂O₅ and TiO₂" *Ceram. Int.*, (2012)38, 2, 1663-70.
21. Z. Khalkhali, Z. Hamnabard, S.S. Alavi, S. Baghshahi, **A. Maghsoudipour** "Preparation, phase formation and photoluminescence properties of ZnO-SiO₂-B₂O₃ glasses with different ZnO/B₂O₃ ratios" *Optical Materials*, (2012) 34, 5,850-855.
22. S. S. Alavi, Z. Hamnabard, Z. Khalkhali, S. Baghshahi, **A. Maghsoudipour** "Preparation, heat treatment and photoluminescence properties of V-doped ZnO-SiO₂-B₂O₃ glasses" *J. of luminescence*, (2012)132, 5, 1126-32.
23. Z. Khakpour, A.A. Youzbashi, **A. Maghsoudipour**, K. Ahmadi, "Electrical conductivity of Sm-doped CeO₂ electrolyte produced by two-step sintering " *Solid State Ionics*, (2012)227,29,80-85.
24. Z. Khakpour, A.A. Youzbashi, **A. Maghsoudipour**, K. Ahmadi" Synthesis of nanosized gadolinium doped ceria solid solution by high energy ball milling" *Powder Techno.*, (2011)214,1,117-121.
25. S. Moghadas, **A. Maghsoudipour**, M. Alizadeh, T. Ebadzadeh, " Investigation on rheological behaviour of 8 mol% yttria stabilized zirconia (8YSZ) powder using Tiron" *Ceram. Int.*, (2011)37, 2015–2019.

26. A.M. Arabi, **A. Maghsoudipour**, A. Hoseinnia, A.R. Gardeshzadeh, F.A. Moztarzadeh, "Synthesis of submicron nanocrystalline $Y_2O_3: Eu$ particles via solvothermal approach using surface modifiers" *J. Inorganic and Organometallic Polymers and Materials (JIOPM)*, (2011)21, 2, 269-275.
27. S. Arasteh, **A. Maghsoudipour**, M. Alizadeh, A. Nemati, "Effect of Y_2O_3 and Er_2O_3 co-dopants on phase stabilization of bismuth oxide" *Ceram. Int.*,(2011)37,8,3451-3455.
28. M.M. Kashani-Motlagh, **A. Maghsoudipour**, L.M. Gorjani, F.Hashemzadeh, " Synthesis and characterization of cubic yttria-stabilized zirconia (8YSZ) nanoparticles by a modified sol-gel route using sucrose and pectin as organic precursors" *Int. J. Phy. Sci.*, (2011)6,10,2518-2525.
29. M. Alizadeh, K. Ahmadi, **A. Maghsoudipour**" Powder x-ray diffraction data of new bismuth yttrium gadolinium oxide, $Bi_{1.8}Y_{0.1}Gd_{0.1}O_3$ " *Powder Diffraction*, (2010)25, 1, 75-76.
30. **A. Maghsoudipour**, M.H. Sarrafi, F.A. Moztarzadeh, A. Aghajani, " Influence of boric acid on properties of $Sr_2MgSi_2O_7:Eu^{2+}$, Dy^{3+} phosphors " *Pigment & Resin Techno.* (2010)39, 32-35.
31. S. Farhikhteh, B. Raeesie, **A. Maghsoudipour**, " Synthesis of nanocrystalline YSZ ($ZrO_2-8Y_2O_3$) powder by polymerized complex method" *J. Alloys. Comp.* (2010)1,491,402-405.
32. T. Talebi, M. Haji, B. Raeesie, **A. Maghsoudipour**, " YSZ electrolyte coating on NiO-YSZ composites by electrophoretic decomposition for solid oxide fuel cells (SOFCs)" *Int. J. Hydrogen Energy*,(2010)35,17,9455-9459.
33. S. Farhikhteh, **A. Maghsoudipour**, B.Raeesie, " The Role of addition of water to non-aqueous suspension in electrophoretically deposited YSZ films for SOFCs" *Int. J. Hydrogen Energy*, (2010)35, 9434-9439.
34. T. Talebi, M.H. Sarafi, M. Haji, B. Raeesie, **A. Maghsoudipour**, "Investigation on microstructures of NiO-YSZ composites and Ni-YSZ cermet for SOFCs" *Int. J. Hydrogen Energy*, (2010)35, 9440-9447.
35. S. Fadaei, M.M. Kashani, **A. Maghsoudipour**, B. Faridnia" Synthesis of yttria nanoparticles using NIPAM/AAC copolymer " *Pigments & Resin Techno.* (2010)39,214-222.
36. T. Talebi, B. Raeesie, M. Haji, **A. Maghsoudipour**, "The role of electrical conductivity of substrate on the YSZ film formed by EPD for solid oxide fuel cell" *Int. J. Hydrogen Energy*, (2010)35, 9405-9410.
37. S. Farhikhte, **A. Maghsoudipour**, B. Raeesie, b. Mozafari, "Synthesis of high specific surface area YSZ ($ZrO_2-8Y_2O_3$) nanocrystalline powder by modified polymeized complex method" *J. Sol-gel Sci. & Techno.*(2009)49,1,60-65.

38. I. Azarian, B. Raeesi, **A. Maghsoudipour**, M. Kazemzadeh, E. Marzban, " Aging behavior of yttria stabilized zirconia (YSZ) in non aqueous suspensions for electrophoretic deposition application "Key Engineering Materials (2009)412,279-285.
39. T. Talebi, B. Raeesie, **A. Maghsoudipour**, "Electrophoretic deposition of YSZ electrolyte on porous NiO-YSZ substrate for solid oxide fuel cell" Key Engineering Materials (2009)412,215-220.
40. F. Hashemzadeh, M.M. kashani, **A. Maghsoudipour**, "A comparative of hydrothermal and sol-gel methods in the synthesis of MnO₂ nanostructure" J. Sol-Gel Sci.Tech., (2009)51,169-171.
41. H. Badii, **A. Maghsoudipour**, B. Raeesi, " The Use of Iranian steel slag for the production of ceramic floor tiles" Adv. Appl. Ceram., (2008), 17, 22,111-115.
42. M. Alizadeh, **A. Maghsoudipour**, F. A. Moztarzadeh, K. Ahmadi, M. Saremi, "Sintering behaviour of Y₂O₃ doped Bi₂O₃ ceramics" Sci. Sinter. (2007)39,215-221.
43. B. Faridnia, M.M. Kashani Motlagh, **A. Maghsoudipour**, "Optimizing synthesis conditions for long lastin SrAl₂O₄ phosphor" Pig. & Resin Techno. (2007),36,4,216-223.
44. **A. Maghsoudipour**, M.A.Bahrevar, J.Heinrich, F.A.Moztarzadeh, "Reaction sintering of AlN-AlON composites" J. Eur. Ceram. Soc., (2005)25,1067-1072.
45. **A. Maghsoudipour**, F.A.Moztarzadeh, M.Saremi, J.Heinrich, " Oxidation behavior of AlN-Al₂O₃ composites" Ceram. Int., (2004)30,773-783.
46. A. Aghajani, A. mirhabibi, M.H. Sarrafi, F. Moztarzadeh, M. Solati, **A. Maghsoudipour**, " Studies of luminescence property of long after glow Eu²⁺, Dy³⁺ activated Sr₂MgSi₂O₇ phosphor" Pigm. & Resin Techno.(2004)33,4,220-225.
47. V. Marghousian, **A. Maghsoudipour**, " Fabrication of unglazed floor tiles containing Iranian copper slags" Ceram.Int. (1999)25,9-11.

REFEREED CONFERENCE PROCEEDINGS PAPAERS

1. Z. Khakpour, H. Pourfarahani, **A. Maghsoudipour**, T. Ebadzadeh," Effect of Ti^{4+} and Sn^{5+} additives on synthesis and coating of hematite particles on glass via hydrothermal processing"4th Hydrogen & fuel Cell Conf., May2017, Theran, Iran.
2. M. Foroughi, Z. Khakpour, **A. Maghsoudipour**, Effect of pH on synthesis of $BaZr_{(0.8)}Y_{(0.2)}O_3$ via gel combustion 4th National Conf. Chem. Petrochem. Nano, Nov 2016, Tehran, Iran.
3. Z. Khakpour, **A. Maghsoudipour**, A. A. Youzbashi," Investigation on electrical properties of $CeO_2-Sm_2O_3-M_2O_3$ (M=Dy,Yb) solid electrolytes for SOFCs. 3th Hydrogen & fuel Cell Conf, May 2015, Tehran, Iran.
4. Z. Khakpour, A. A. Youzbashi, **A. Maghsoudipour** "Influence of Dy^{3+} on microstructure and sintering of ceria based electrolytes,"9th Cong. Iranian Ceram. Soc. Congress. May 2013, Theran, Iran.
5. S. Moghadas, **A. Maghsoudipour**, "Optimization of strip casting process for the production of solid oxide fuel cell components" 2nd National Conf. Hyd. Fuel Cells, May 2012, Tehran, Iran.
- 6.S. S. Alavi, Z. Hamnabard, Z. Khalkhali, S. Baghshahi, **A. Maghsoudipour**, "Effect of composition and heat treatment on microstructure and luminescence properties of Zinc borosilicate glass – ceramics" 8th Cong. Iranian Ceram. Soc., May2011, Tehran, Iran.
7. H. Salehi, H. Nouranian, **A. Maghsoudipour**, S. Otroj," Provide a new method to evaluate the thermal shock of refractories," 8th Cong. Iranian Ceram. Soc., May 2011, Tehran, Iran.
8. H. Tamadon, **A. Maghsoudipour**, "Evaluation on the effect of grinding time on the solid-state synthesis of lanthanum manganate doped with strontium as solid oxide fuel cell cathode" 8th Cong. Iranian Ceram. Soc., May 2011, Tehran, Iran.
9. S. Sadeghi, M. A. Faghihisani, **A. Maghsoudipour**, "Synthesis of $ZrO_2-8\%Y_2O_3$ by hydrothermal method" National Conf. Chem. Eng., March 2010, Tehran, Iran.
10. M. Masoumi, M. Mohebi, **A. Maghsoudipour**, "Fabrication of polymer-piezoceramic composites" 2nd Int. Conf. Composites: Characterization, Fabrication and Application (CCFA-2) Dec 2010, Kish Island, Iran.
11. M. H. Sarafi, T. Talebi, **A. Maghsoudipour**, M. Haji, "Behavior of YSZ nanoparticles created by the EC meeting shall electrophoretic for SOFCs" Seminar on nanotechnology appl. ind. dev., Apr 2010, Ghazvin, Iran.
12. M. H. Sarafi, T. Talebi, **A. Maghsoudipour**, M. Haji, "Electrophoretic deposition of YSZ nanoparticles on NiO-YSZ using various methods to create electrical conductivity for fuel cell applications", Seminar on nanotechnology appl. Ind. Dev., Apr 2010, Ghazvin, Iran.

13. F. Heydari, **A. Maghsoudipour**, Z. Hamnabard, "Effect of zirconia nanoparticles on the thermal behavior, mechanical properties and Sinterability of glass sealing for SOFCs" ,8th Student Conf. Nanotechnology Nov 2010, Mashhad, Iran.
14. F. Heydari, **A. Maghsoudipour**, Z. Hamnabard, "Preparation of solid oxide fuel cell sealing glass composites containing zirconia nanoparticles" Seminar on nanotechnology appl. ind. development, April 2010, Ghazvin, Iran.
15. F. Heydari, **A. Maghsoudipour**, Z. Hamnabard, "Preparation and properties of glass -ceramic sealing solid oxide fuel cell" 2nd National Conference of fuel & energy, Apr 2010, Kermanshah, Iran.
16. R. Nikpey, M. M. Kashani, **A. Maghsoudipour**, "Microwave – induced combustion synthesis and electrical properties of Yb₂O₃-doped CeO₂ nano powders" 12thConf. Inorganic Chemistry, Gilan University, Sep 2010, Iran.
17. F. S. Torknik, **A. Maghsoudipour**, M. Kianpour, "Ni-GDC Cermet as Anode for Intermediate Temperature solid oxide fuel cell" 4th Seminar on Fuel Cell, Dec 2010, Tehran, Iran.
18. N. Mirkazemi, **A. Maghsoudipour**, M. Tamizifar, S. Baghshahi, "Synthesis and coating of Yttria stabilized zirconia on porous substrate via sol-gel Method for use in fuel cells"4th Seminar on Fuel Cell, Dec 2010, Tehran, Iran.
19. S. Sadeghnezhad, M. A. Faghihi Sani, **A. Maghsoudipour**, "Synthesis of ZrO₂-8% moleY₂O₃ used in fuel cell by Hydrothermal Method: Mineralizer Effect", 4th Seminar on Fuel Cell, Dec 2010, Tehran, Iran.
20. F. Heydari, **A. Maghsoudipour**, Z. Hamnabard, "Mechanical and electrical properties of solid oxide fuel cell sealing glass composite reinforced with zirconia particles" 4th Seminar on Fuel Cell, Dec 2010, Tehran, Iran.
21. S. Arasteh, **A. Maghsoudipour**, M. Alizadeh, A. Nemati, "Aging Behavior of Solid Electrolytes Based on Bismuth Oxide with Different Amounts of Yttria and Dyspersia"4th Seminar on Fuel Cell, Dec 2010, Tehran, Iran.
22. F.S. Torknik, **A. Maghsoudipour**, M. Kianpour,"Application of doped CeO₂ in Intermediate Temperature solid oxide fuel cell" 4th Seminar on Fuel Cell, Dec 2010, Tehran, Iran.
23. R. Nikpey, M. M. Kashani, **A. Maghsoudipour**, "Synthesis and Identification of CeO₂ Nano-Powder electrolyte Doped with Yb³⁺ and Mg²⁺ and Characterization and ionic conductivity in solid oxide fuel cells", 4th Seminar on Fuel Cell, Dec 2010, Tehran, Iran.
24. M. Alizadeh, **A. Maghsoudipour**, S. Hesaraki, A. Keshavarz, "Effect of organic matter on the properties of ceramic shell molds used in precision casting", 4th Joint Conference on Metallurgical Engineers Society and Iranian Foundry Society, Nov 2010, Tehran, Iran.
25. **A. Maghsoudipour**, S. Farhikhteh, B. Raesie, "Synthesis of Nano-Structured YSZ via Gel-Polymerization" National Seminar on New Materials, May 2010, MERC, Iran.

26. S. Arasteh, **A. Maghsoudipour**, M. Alizadeh, "Structure and ionic conductivity of bismuth oxide solid electrolyte" National Conf. Chem. Eng., March 2010, Tehran, Iran.
27. T. Talebi, B. Raiesi, A. Maghsoudipour, M. Haji, "Effect of creating electrical conductivity Method of Solid Oxide Fuel Cell Anode on Electrophoretic meeting of YSZ Nanoparticles", 6th Student conf. Nanotechnology, Dec. 2009, Tehran, Iran.
28. S. Farhikhteh, **A. Maghsoudipour**, B. Raeisi, " Factors affecting the synthesis of Nano-structured YSZ powder sol-gel" 6th Student conf. Nanotechnology, May 2009, Tehran, Iran.
29. T. Talebi, B. Raesi, **A. Maghsoudipour**, "Study on Microstructure of NiO-YSZ Composite and Ni-YSZ Cermet for SOFCs" 3th Seminar on fuel cell, Oct 2009, Tehran, Iran.
30. **A. Maghsoudipour**, M. Alizadeh, "Study on Phase Transition of Solid Electrolytes based on Bi-Y-Yb-Zr Oxide System" 3th Seminar on fuel cell, Oct 2009, Tehran, Iran.
31. A. Einirad, M. Kashani, **A. Maghsoudipour**, "Synthesis of CeO₂ nanostructured powders doped with Gadolinium and Calcium by optimized combustion synthesis method", Nano-Tech. Conf., Dec 2009, Tehran, Iran.
32. **A. Maghsoudipour**, T. Talebi, B. Raiesi, "Preparation of YSZ Layer on NiO-YSZ by Electrophoretic Method for SOFCs Applications "The First National Conf. Hydrogen & Fuel Cell, Jan 2009, IUST.
33. **A. Maghsoudipour**, T. Talebi, B. Raies "An overview of the challenges of materials for SOFCs components" The First National Conf. Hydrogen & Fuel Cell, Jan 2009, IUST.
34. **A. Maghsoudipour**, A. Fatahi, "Solid oxide fuel cell and its importance for the country" The First National Conference on Hydrogen & Fuel Cell, Jan 2009, IUST.
35. **A. Maghsoudipour**, S. Moghadas, T. Ebadzadeh, M. Alizadeh, "Ytria stabilized zirconia electrolyte prepared by immersion method" The First National Conference on Hydrogen & Fuel Cell, Jan 2009, IUST.
36. **A. Maghsoudipour**, M. Alizadeh, K. Ahmadi, F. A. Moztarzadeh, " Investigation of the high temperature properties of Bi₂O₃-Y₂O₃-Gd₂O₃ system", Int. Seminar High Temperature Materials, Varanasi, India, Feb 2009.
37. **A. Maghsoudipour**, I. Azarian, B. Raiesi, M. Kazemzad, E. MARzbanrad, " Factors affecting the aging suspension containing YSZ coatings using electrophoretic coating" 7th Cong. Iranian Ceram. Soc, 28-29 Apr 2009, Shiraz, Iran.
38. **A. Maghsoudipour**, T. Talebi, B. Raesi, " YSZ electrolyte coatings on NiO-YSZ composite for solid oxide fuel cell by electrophoretic Method" 7th Cong. Iranian Ceram. Soc, 28-29 Apr. 2009, Shiraz, Iran.

39. **A. Maghsoudipour**, S. Moghadas, T. Ebadzadeh, M. Alizadeh "Rheological and coating behavior of Ytria stabilized zirconia (8YSZ) on NiO-YSZ Substrate" 7th Cong. Iranian Ceram. Soc., Apr 2009, Shiraz, Iran.
40. **A. Maghsoudipour**, M. M. Kashani, L. Majidzadeh, "Phase composition and grain size of YSZ synthesized with a precursor Modern organic by sol-gel Method" National Conf. Nanomat.& Nano-Tech., Apr 2009, Isfahan, Iran.
41. **A. Maghsoudipour**, M. M. Kashani, L. Majidzadeh "Synthesis and Purification of Y₂O₃ Stabilized ZrO₂ Nanoparticles" 5th Student Nanotechnology Conference, May 2009, Tehran, Iran.
42. F. S. Torknik, **A. Maghsoudipour**, M. Kianpour," Ceria as a Promising Material for SOFC"3th Seminar on fuel cell, Oct 2009, Tehran, Iran.
44. T. Talebi, M. Sarafi, **A. Maghsoudipour**, B. RAesie, "Effect of sintering temperature on the microstructure and properties of YSZ sintered electrolyte on NiO-YSZ Surface by electrophoretic method for application in solid oxide fuel cell" 3th Seminar on fuel cell, Oct 2009, Tehran, Iran.
45. S. Arasteh, **A. Maghsoudipour**, M. Alizadeh, A. Nemati, "Effect of composition on the stability of the cubic phase bismuth oxide in solid electrolyte system Bi₂O₃-Y₂O₃-Dy₂O₃, 3th Seminar on fuel cell, Oct 2009, Tehran, Iran.
46. **A. Maghsoudipour** S. Farhikhteh, B. Raissi, "Synthesis of Nanocrystalline YSZ Powder by Polymerized Complex Method" Proceedings of the Iran-India Joint Conference in Nano-Technology, April 2008, Tehran, Iran.
47. **A. Maghsoudipour**, M. M. Kashani, L. Majidzadeh "Effect of precursor's properties on the properties of 8YSZ nano particles as an electrolyte for SOFCs" 2nd Seminar on fuel Cell, Oct 2008, Tehran, Iran.
48. **A. Maghsoudipour**, S. Farhikhteh, B. Mozafari, B. Raesie, "Synthesis of nanocrystalline YSZ (ZrO₂-8Y₂O₃) powder by polymerized complex method" 2nd Int. Conf. Nanonotechnology: Future Prospects in the Region, ICN 2008.
49. **A. Maghsoudipour**, S. Farhikhteh, B. Mozafari, B. Raesie "ynthesis of high specific surface area YSZ nanocrystalline powder by modified polymerized complex method" 2nd International Conference on Nanonotechnology: Future Prospects in the Region 2008.
50. M. M. Setodehnia, S. A. Manafi, **A. Maghsoudipour**, F. A. Moztarzadeh, "Selection of best Iranian pitch for imprgnation in the carbon – carbon composite" First international Bitumen conference (IBC) 2008, Oct 2008, Tehran- Iran.
51. **A. Maghsoudipour**, A. H. Arabi, A. Hoseinnia, F. A. Moztarzadeh," Synthesis of Luminescence Nanocrystal Y₂O₃: Eu by solo -thermal method" 6th ICerS. Congress, Apr. 2007, Tehran, Iran.
52. **A. Maghsoudipour**, A. Fatahi, F. A. Moztarzadeh," Structural analysis of Bismuth Oxide co-doped Erbiom & Ytteriom" 6th Cong. Iranian Ceram. Soc, Apr 2007, Tehran, Iran.

53. **A. Maghsoudipour**, B. Mirfakhraie, B. Raeisei, F. A. Moztarzadeh, "Sintering Behaviour of Bi_2O_3 -AgO stabilized with Y_2O_3 " 6th Cong. Iranian Ceram. Soc, Apr. 2007, Tehran, Iran.
54. **A. Maghsoudipour**, A. H. Arabi, A. Hoseinnia, F. A. Moztarzadeh, S. J. Moin "Luminescence Properties of Y_2O_3 : Eu synthesized via solo-thermal and Co-participation Methods", 2nd Student Cong. Nono-Technology, Sep2007, Kashan, Iran.
55. M. Alizadeh, **A. Maghsoudipour** F. A. Moztarzadeh, M. Saremi, K. Ahmadi, "Preparation of Bismuth Oxide with Gd and Yt For Solid Oxide Fuel Cell" 2nd Int. Conf. Power, Sep 2007, Tehran, Iran.
56. **A. Maghsoudipour**, S. H. Badiei, "Copper slag in Production of Floor Tile" Electric Arc Furnace Slag, Processing and Applications, Seminar, Dec. 2007 Isfahan, Iran.
57. **A. Maghsoudipour**, B. Mirfakhraei, B. Raesi, F. A. Moztarzadeh, "Investigation of Yttria Stabilized Bismuth Oxide and its Application in Composite Cathodes" 10th ECerS Conf., Göller Verlag, Baden-Baden, 2007, Germany.
58. **A. Maghsoudipour**, B. Mirfakhraei, B. Raesi, " Investigation on Properties of Yttria Stabilized Bismuth Oxide for Composite Cathodes" Proceeding of the 1st European fuel cell technology and applications Conference 2005 EFC2005.
59. **A. Maghsoudipour**, J. Heinricsh, F. A. Moztarzadeh, M. A. Bahrevar, M. Saremi, "The Effect of Microstructure and Composition on Properties of AlN-AlON composites" 28th Int. Con. & Ex. Adv. Ceram. Composites, 25-30 Jan 2004, Cocoa beach, Florida, USA.
60. **A. Maghsoudipour**, J. Heinricsh, F. A. Moztarzadeh, " Influence of Processing parameters on Microstructure, Oxidation Resistance and Thermal conductivity of AlN/ Al_2O_3 composites" Materials Week, Oct 2001, Munich-Germany.
61. **A. Maghsoudipour**, V. K. Marghousian, " Preparation of Floor Tile by Copper Slag", 3th Cong. Iranian Ceram. Soc, Apr.1998, Tehran, Iran.
62. **A. Maghsoudipour**, M. Solati "Determination of Hydroxyapatite Constant Lattice with Chemical Method" 2nd Cong. Iranian Ceram. Soc., 1995, Tehran, Iran.

EDITED BOOKS

1. A. Maghsoudipour, "Making and curing concrete test lab "National Standard, No581.
2. A. Maghsoudipour (Scientific Editor), J. Hashemi, S. R. Radpour, A. Irankhah, M. Rezaie, M. A. Jafari, N. Bagheri Moghadam, "Fuel Cell and Hydrogen Technology, Theory and Applications" 2007, Elm va adab Publications.
3. Additionally, Lengthy Industrial Reports have been written in the last 20 years.

GRADUATE PROJECTS SUPERVISED

| Project | Degree | Year | student |
|--|--------|------|---------------------------|
| Hydrothermal Synthesis and Deposition of (Ti,Sn)-Doped Hematite Nano Particle | M.Sc. | 2017 | Hojatolah pourfarahani |
| Synthesis , Characterization and Sintering of BaZrO ₃ Proveskites | M. Sc. | 2016 | M. Reza Foroughi |
| Synthesis and evaluation of structural and electrochemical properties of solid oxide fuel cell cathode basis of lanthanum strontium ferrite cobalt | Ph.D. | 2016 | Fatemeh Heydari |
| Electrodeposition of copper indium aluminum diselenide (CuIn(Al)Se ₂) alloys compound for thin film solar cell application | Ph.D. | 2016 | Yadolah Ganjkanlo |
| Investigation of effect titanium carbide on the mechanical properties of mullite matrix composite | Ph.D. | 2016 | Davod Ghahremani |
| Electrophoretic deposition of Mn-Co based spinel coating on metallic interconnect in solid oxide fuel cell | M.Sc. | 2014 | Reza Irankhah |
| Optimization of Ni/GDC Anode and Study the Infiltration Processing with Metallic catalyst Nano Particle | Ph.D. | 2011 | Fateme Torknik |
| Preparation and Properties of Piezoceramic-Polymer Composite | M.Sc. | 2011 | Masoume Masoumi |
| Effect of Grinding Time on Solid State Synthesis of Strontium doped Lanthanum Manganite Nanostructure as SOFC Cathode | M.Sc. | 2012 | Homa Tamaddon |
| Effect of Dopants Addition on the Ionic Conductivity, Microstructure and Sintering Behavior of Ceria Based Solid State electrolytes | Ph.D. | 2011 | Zahra Khakpour |
| Investigation on Mechanical Behavior of Synthesized Porous Bioactive Glass | M.Sc. | 2010 | Abolfazl Mohamadi oshnari |
| Effective Parameters of Eleectrophoretically Deposited YSZ Coating on NiO-YSZ Composition for Solid Oxide Fuel Cells | M.Sc. | 2009 | Tahere Talebi |
| Investigation and Characterization of Glass Composite Sealant of Solid Oxide fuel Cell Contain Zirconia Nano Particle | M.Sc. | 2010 | Fateme Heydari |
| Synthesis of Nano-Crystalline YSZ Powder by Sol-Gel Process | M.Sc. | 2008 | Shayan Farhikhte |
| Synthesis And Characterization of MnO ₂ Nano Structures and Doping of NiO at These Structure | M.Sc. | 2008 | Fateme Hashemzade |
| Investigation on Rheological Behavior of Suspension Containing Nano Crystalline YSZ for Dip coating Application | M.Sc. | 2009 | Shahab Moghadas |

| | | | |
|--|-------|------|--------------------|
| Fabrication of Yttria Stabilized Zirconia Coating on Nickel Oxide – Yttria Stabilized Zirconia Substrate By Electrophoretic Deposition | M.Sc. | 2008 | Iman Azarian |
| Effect of Additives on Sintering Microstructure and Ionic Conductivity of Bismuth Oxide As a Solid Electrolyte | Ph.D. | 2007 | Masoud Alizadeh |
| Erbium-Yttrium Co-Doped Bismuth Oxide for Application in Solid Oxide Fuel Cells | M.Sc. | 2006 | Ahad Fatahi |
| Selection of Best Matrix for Carbon-Carbon composites | M.Sc. | 2006 | M. Mehdi Sotoudeh |
| Synthesis of Y ₂ O ₃ luminescence Pigments | M.Sc. | 2006 | Amir Masoud Arabi |
| Nano Fluorescence Pigment Synthesis Based on Y ₂ O ₃ | M.Sc. | 2005 | Shahzad Fadaei |
| Investigation on Composite Cathodes Based on Yttria Stabilized Bismuth Oxide for SOFC | M.Sc. | 2005 | Behzad Mirfakhraei |
| Optimization of Phosphorescence Effect in Sr-Mg- Silicate Systems | M.Sc. | 2004 | Ali Aghajani |

MEMBERSHIP IN COMMITTEES AND COUNCILS

| Committee or council | Title | Year | Location |
|---|-----------------------------|------|------------------------------|
| 3 th Seminar on fuel cell | Member Scientific Committee | 2009 | SRTT University, Iran |
| MERC Refractory | Director of Workshops | 2009 | MERC, Iran |
| First National Conference Hydrogen and Fuel Cell Conference | Member scientific Committee | 2008 | IUST, Iran |
| 6th Cong. Iranian ceramic congress | Member | 2007 | MERC, Iran |
| Ceramic Group Council | Member | 2002 | Azad University Meibod, Iran |
| Ceramic Research Council | Member | 2002 | MERC, Iran |
| Iranian Ceramic Society | Board of Directors | 2002 | Tehran, Iran |
| Iranian Ceramic Society | Inspector | 2002 | Tehran, Iran |

ACADEMIC COURSES INSTRUCTED

| Course titles | Certificate | Period | Location |
|---|------------------------|---------------|--|
| Laboratory internal evaluation | ISO/IEC17025 | 6 Days | Tuff Academy- Based on the ISO/IEC17025 |
| Documented quality management | ISO 9000-2000 | 2 Days | Tuff Academy- System according to ISO9000-2000 |
| Method of preparation, Processing Measurement and Calibration | Graduation certificate | 5 Days | MERC |
| Quality Management | Graduation certificate | 2 Days | Institute of Standards |
| Workshop from Powder to Power in Ukranian way | Graduation certificate | 2 Days | IUST |
| Hydrogen Safety | Graduation certificate | 2 Days | New Energy Organization of Iran |
| Slid Oxide Fuel Cell | Graduation certificate | 2 Days | New Energy Organization of Iran |

FORUM MEMBERSHIP

- Ceramic Society of America, Student Registration, 1991-1992. □
- Ceramic Society of Iran (Board member Iranian Ceramic Society). □
- Inspector of Iranian Ceramic Society, 2006-2010.
- Association of nanotechnology, 2007- Now
- Iranian hydrogen and fuel cell association, 2012-NoW