

Dr. Parvin Alizadeh

CV

1- Personal information

Name: Parvin Alizadeh

Associate Professor of Ceramic Engineering

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2- Educational background

- PhD. in Ceramic major, from Materials & Energy Research Center, 1999
- Master of Science degree, in Chemistry, from Sharif Tech. University, 1991
- Bachelor of Science degree, in Chemistry, from Tabriz University, 1987

3- Work history

- Associate Professor at Tarbiat Modares University, School of Engineering, department of Materials; From 2009
- Assistant Professor at M.E.R.C, Department of ceramic, 1998-2005

4- Papers published in international and domestic journals

1. Characterization of Electrochemically prepared Ni/Al₂O₃/Al Coated Catalyst, Tahghigh Bulletin of the NIOC, Research Institute of Petroleum Industry, Vol.2(6), 1992, 48-62.
2. Effect of Carbonates on Wall Tile Bodies, American Ceramic Society Bulletin, Vol.75 (5), 1996, 84-86.
3. Investigation of Mechano-Chemical Effects and Kinetics of Amorphisation of Sanitary Ware Formulation during Dry Milling, British Ceramic Transactions, Vol.97 (5), 1998, 227-231.
4. Slip Casting of Zircon, Industrial Ceramics, Vol. 18 (2), 1998, 87-90.

5. **Characterization and Properties of Amorphous Silica Powder Prepared by the Vycor method, Industrial Ceramics, Vol.18 (3), 1998, 155-158**
6. **Effect of Nucleating Agents on the Crystallization Behavior and Microstructure of SiO₂-MgO-CaO (Na₂O) Glass-Ceramics, Journal of the European Ceramic Society, Vol.20, 2000, 775-782**
7. **The Effect of Compositional Changes on the Crystallization Behavior and Mechanical Properties of Diopside-Wollastonite Glass-Ceramics in the SiO₂-CaO-MgO (Na₂O) System, Journal of the European Ceramic Society, Vol.20, 2000, 765-773.**
8. **Mechanical Properties and Bioactive Characteristics of Wollastonite-Diopside Glass-Ceramics in the Presence of WO₃+ Fe₂O₃Nucleants, American Ceramic Society Bulletin, Vol.81(3), 2002, 21-26.**
9. **Abnormal Shrinkage Behavior of an Iron-Calcarious Clay, Industrial Ceramics, Vol.21 (3), 2001, 159-162.**
10. **Study of Bulk Crystallization in MgO-CaO-SiO₂-Na₂O Glasses in the Presence of CaF₂ and MoO₃Nucleants, Journal of the Materials Science, Vol.38(7), 2003, 1367-1588.**
11. **Painting and Decoration of Pottery, Daily News Paper HAMSHAHRI, (2694)19-20.**
12. **Effect of Fe₂O₃ Addition on the Sinterability and Machinability glass-ceramic in the system MgO-CaO-SiO₂-P₂O₅, Journal of the European Ceramic Society, Vol.24(13), 2004, 3529-3533.**
13. **The Effect of B₂O₃, P₂O₅ on the Sintering and Machinability of Fluormica Glass-Ceramic, Journal of the European Ceramic Society, Vol.25 (6), 2005, 899-902.**
14. **The influence of TiO₂, Cr₂O₃ and ZrO₂ on the Sintering and Machinability of Flurphologopite Glass-Ceramic, British Ceramic Transactions, Vol.103 (5), 2004, 235-237.**
15. **Effect of CaF₂ and Cr₂O₃ on the Crystallization and Mechanical Properties of Glasses in SiO₂-CaO-Fe₂O₃-(Al₂O₃) System, Glass Technology, Vol. 46(5), 2005, 347-350.**
16. **Sintering Behavior of SiO₂-CaO-MgO(Na₂O) Glass- Ceramics System, Journal of Ceramics International, Vol. 33, 2007, 767-771.**

17. Floor Tile Glass-Ceramic Glaze for Improvement of Glaze Surface Properties, *Journal of the European Ceramic Society*, Vol. 26(16), 2006, 3809-3812.
18. Synthesis of Glass-Ceramic Glazes in the ZnO-Al₂O₃-SiO₂-ZrO₂ System, *Journal of the European Ceramic Society*, Vol. 27(5), 2007, 2311-2315.
19. Sintering Behaviour and Mechanical Properties of the Mica-DiopsideMachinable Glass-ceramics, P. Alizadeh, B. Eftekhari, T. Javadi, *Journal of the European Ceramic Society*, Vol. 28(8), 2008, 1569-1573.
20. Crystallization and Electrical Properties of [(Pb1-xSrx)TiO3][(2SiO2,B2O3)][K2O] Glass-Ceramics, P. Alizadeh, A. Bahrami, Z. Namati, M. Bolandi, *Journal of Materials Processing Technology*, Vol. 206(1-3), 2008, 126-131.
21. Optimization of the synthesis of a Nano-Sized Mica-Hematit pearlescent pigment, M. Tohidifar, E. Tahari, P. Alizadeh, *Journal of Materials Chemistry and Physics*, Vol. 109(1), 2008, 137-142.
22. Processing and Properties of a Mica-Apatite Glass-Ceramic Reinforced with Y-PSZ Particles, M. Montazarian, P. Alizadeh, B. Eftekhari, *Journal of the European Ceramic Society*, Vol. 28(14), 2008, 2693-2699.
23. Synthesize of ZnO Nano Powder by a Gel Combustion Method, N. Riahi, R. Saraf, P. Alizadeh, A. Mehdikhani, *Ceramic Processing Research*, Vol. 9(3), 2008, 246-249
24. Pressurless Sintering and Mechanical Properties of Mica Glass-Ceramic Y-PSZ Composite, *Journal of the European Ceramic Society*, Vol. 28(14), 2008, 2687-2692.
25. Synthesis and Characterization of Diopside Glass-Ceramic Matrix Composite Reinforced with Aluminum Titanate, M. Yousefi, P. Alizadeh, B. Eftekhari, F. Molaie, N. Ghafariyan, M. Montazarian, *Journal of Ceramics International*, Vol. 35(4), 2009, 1447-1452.
26. Synthesis of white Pearlescent Pigments using the Surface Response Method of Statistical Analysis, N. Bayat, S. Baghshahi, P. Alizadeh, *Journal of Ceramics International*, Vol. 34(8), 2008, 2029-2035

27. Composite Wasteform based on SiO₂-PbO-CaO-ZrO₂-TiO₂-(B₂O₃-K₂O) Parent Glass with Zircon as the Second Component, M. Malek, M. Khani, P. Alizadeh, H. Kazamian, *Journal of Ceramics International*, Vol. 35(4), 2009, 1689-1692
28. Pressureless sintering and mechanical properties of SiO₂-Al₂O₃-MgO-K₂O-TiO₂-F- (CaO-Na₂O) machinable glass-ceramics, B. Ashouri Rad, P. Alizadeh, *Journal of Ceramics International*, Vol. 35, 2009, 2775-2780
29. Preparation of Machinable Bioactive Mica-Diopside-Fluoroapatite Glass-Ceramics, P. Alizadeh, B. EftekhariYekta, T. Javadi, *Advances in Applied Ceramics*, Vol. 109(1), 2010, 56-61
30. Fuzzy Modeling of Soil Water Distribution using Buried Porous Clay Capsule irrigation from a Subsurface Point Source, H. A. Bahrami, H. Ghorbani, P. Alizadeh, F. Nasiri, Z. Mahallati, *Sensor Letters*, Vol. 8(1), 2010, 75-80
31. Effect of frit size on sintering, crystallization and electrical properties of wollastonite glass-ceramics, M. Mohammadi, P. Alizadeh, Z. Atlasbaf, *Journal of Non-Crystalline Solids*, Vol. 357, 2011, 150-156
32. Fabrication of aluminum nitride coatings by electrophoretic deposition: Effect of particle size on deposition and drying behavior, H. Abdoli, M. Zarabian, P. Alizadeh, S. K. Sadrnezhad, *Ceramics International*, Vol. 37, 2011, 313-319
33. Precursor content assessment and its influence on the optical interference of a nano-sized mica- hematite pearlescent pigment, M. R. Tohidifar, E. Taheri-Nassaj, P. Alizadeh, *Powder Technology*, Vol. 204, 2010, 194-197.
34. Preparation and Characterisation of Diopside- based Glass-ceramic Foams, S. Hasheminia, A. Nemati, B. EftekhariYekta, P. Alizadeh, *Ceramics International*, 38 (2012) 2005-2010.
35. Sol- gel Preparation and Characterization of nano- crystalline Mica Glass-ceramic, M. R. Tohidifar, P. Alizadeh, P. Riello, B. EftekhariYekta, A. R. Aghaei, *Ceramics International*, 38 (2012) 2813-2821.
36. Nucleation and crystallization behaviors of nano-crystalline lithium-mica glass-ceramic prepared via sol-gel method, M. R. Tohidifar, P. Alizadeh, P. Riello, *Materials Research Bulletin*, 47 (2012) 1374-1378.
37. Electrophoretic deposition of (Mn,Co)₃O₄ spinel nano powder on SOFC metallic interconnects, H. Abdoli, P. Alizadeh, *Materials Letters*, 80 (2012) 53-55.

38. Controlling the sol–gel process of nano-crystalline lithium-mica glass-ceramic by its chemical composition and synthesis parameters, M. R. Tohidifar, P. Alizadeh, A. Aghaee, *Materials Characterization*, **99** (2015) 61-67.
39. Effects of thermal aging on thermo-mechanical behavior of a glass sealant for solid oxide cell application, H. Abdoli, P. Alizadeh, A. Karsten, D. Boccaccini, *Journal of European Ceramic Society*, **34** (2014) 2525-2534.
40. Fabrication and sealing performance of rare-earth containing glass-ceramic seals for intermediate temperature solid oxide fuel cell applications, H. Abdoli, P. Alizadeh, A. Karsten, *Ceramics International*, **40** (2014) 7545-7554.
41. Fracture toughness of glass sealants for solid oxide fuel cell application, H. Abdoli, P. Alizadeh, A. Karsten, D. Boccaccini, *Materials Letters*, **115** (2014) 75-78.
42. Optical properties of transparent glass-ceramics containing lithium-mica nanocrystals: crystallization effect, V. Khani, P. Alizadeh, M. Shakeri, *Materials Research Bulletin*, **48** (2013) 3579-3584.
43. Mechanical properties of optically transparent glass-ceramics containing lithium mica nanocrystals, V. Khani, P. Alizadeh, *Physics and Chemistry of Glasses, EUROPEAN JOURNAL OF GLASS SCIENCE AND TECHNOLOGY PART B*, **54** (2013) 104-108.

4- Lectures and Seminars:

- 1) **Effect of Carbonates on Wall Tile Bodies, at the second congress of Iranian Ceramic Society, in Iran university of Science and Technology, 1995**
- 2) **Bioglasses, Annual Seminar, Atomic Energy Organization of Iran, 1996**
- 3) **Investigation of Mechano-Chemical Effects of Sanitary Ware Formulation during Dry Milling, The third congress of Iranian Ceramic Society; The research center of Azar Refractory Products Inc. 1998**
- 4) **Synthesis of Cadmium Sulpho-Selenide zircon red pigment; Annual Seminar; Materials & Energy Research Center, 2001**
- 5) **Effect of nucleating agents on crystallization and microstructure of glass-ceramics in the SiO₂-MgO-CaO system; The fourth congress of Iranian Ceramic Society; Mashhad Glaze Co. 2002**
- 6) **Synthesis of Lustrous pigments; Annual Seminar; Materials & Energy Research Center, 2002**

- 7) **Synthesis of gold Lustrous pigments; The fifth congress of Iranian Ceramic Society; in Iran university of Science and Technology, 2004**
- 8) **Synthesis of pearly pigments by titration method; The fifth congress of Iranian Ceramic Society; in Iran university of Science and Technology, 2004**
- 9) **Fabrication of glass-ceramic glaze, for surface hardness improvement of floor tile; The fifth congress of Iranian Ceramic Society; in Iran university of Science and Technology, 2004**
- 10) **Investigation of Mechanical properties of Mica-Apatite – Diopside Bioactive glass-ceramics, P. Alizadeh, B. Eftekhari, T. Javadi, XXI International Congress on Glass, Strasbourg – France 2007**
- 11) **Sintering behavior and mechanical properties of mica-diopside machinable glass-ceramics, T. Javadi, P. Alizadeh, B. Eftekhari Yekta, The sixth Congress of Iranian Ceramic Society, 2007**
- 12) **Investigation of effective parameters on synthesis of mica-hematite lustrous pigments, M. Tohidifar, E. Taheri, P. Alizadeh, The sixth Congress of Iranian Ceramic Society, 2007**
- 13) **Investigation of ZrSiO₄ influence on PbO-SiO₂-B₂O₃-K₂O-TiO₂-ZrO₂-CaO glass-ceramic, P. Alizadeh, M. Malek, H. Kazamian, M. Khani, The eleventh Congress of Iranian Metallurgy Engineering Society, Iran, Esfahan 2007**
- 14) **Optimum Parameters in coating Process of Mica-Particles by Nano Fe₂O₃ with Statistical Methods, M. Tohidifar, E. Taheri, P. Alizadeh, The third Congress of Nano Technology- Iran, Shiraz 2007**
- 15) **Comparison between gel combustion and precipitation of Nano Powder of Zinc Oxide, N. Riahi, R. Saraf, P. Alizadeh, A. Hadean, H. Mehdikhani, The Second International Conference on Nano Structures – Iran, Kish 2008**
- 16) **Preparation and Mechanical Properties of Machinable Mica / Diopside glass-ceramics; P. Alizadeh, B. Ashori, Second International Conferences on Ceramics, in Verona, Italy, 2008**
- 17) **Viscose flow Sintering of Mica glass-ceramic Composite, M. Montazarian, P. Alizadeh, B. Eftekhari, Second International Conferences on Ceramics, in Verona, Italy, 2008**

- 18) Viscose Sintering and Mechanical Properties of Mica-Apatite glass-ceramic reinforced with Zirconia Particles, M. Montazarian, P. Alizadeh, B. Eftekhari, Second International Conferences on Ceramics, in Verona, Italy, 2008**
- 19) Influence of different nucleants on sintering behavior of SiO₂-CaO-MgO(Na₂O)glass-ceramics, P. Alizadeh, M. Yousefi, F. Molaei, VI congress on basic science, Iran, 2007**
- 20) Sintering and crystallization of wollastonite glass-ceramics in the system of SiO₂-CaO-Na₂O-WO₃-Fe₂O₃, M. Mohammadi, P. Alizadeh, The seventh congress of Iranian Ceramic Society, shiraz, Iran, 2009**
- 21) Microstructure investigation of mica-wollastonite glass-ceramics produced by sintering method, B. Ashori Rad, P. Alizadeh, The seventh congress of Iranian Ceramic Society, shiraz, Iran, 2009**
- 22) Effect of glass addition in SiO₂-CaO-Na₂O system on sintering and mechanical properties of machinable glass-ceramics, B. Ashori Rad, P. Alizadeh, The seventh congress of Iranian Ceramic Society, shiraz, Iran, 2009**
- 23) A new high-temperature glass for hermetic sealing in planar SOFC stacks, H. Abdoli, H. R. Savabieh, P. Alizadeh, International forum on Advanced Materials and Commercialization, China, 2011**
- 24) Fabrication of wollastonite glass-ceramic scaffolds by new method, P. Alizadeh, D. Abadkar, Colloids and Nanomedicine, Amestrdom, Netherlands, 2012**