

# Gholamali FARZI

ASSOCIATE PROFESSOR IN POLYMER ENGINEERING & POLYMER  
NANOCOMPOSITES  
Engineer, M.Sc., Ph.D.

## HSU – SABZEVAR - IRAN

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Office: First floor, Department of Material and Polymer Engineering, Faculty of Engineering, Hakim Sabzevari University, Tohid shahr, Sabzevar, Iran.	Office : +98 51 44012780 Cell phone : +98 (0)9373537388 E-mail : <a href="mailto:Alifarzi@yahoo.com">Alifarzi@yahoo.com</a> <a href="mailto:Farzi@hsu.ac.ir">Farzi@hsu.ac.ir</a>



## EDUCATIONAL BACKGROUND

- 2009 Post-doctoral finalization in the field of CNT-Polymer nanocomposites, university of Claude Bernard Lyon 1, France
- 2007 Ph.D. in polymer engineering, Processes engineering, CPE-LYON- INSA DE LYON
- 2004 Obtaining a scholarship for Ph.D. thesis in France
- 2000 M.sc in Polymer Engineering from Amirkabir University of technology, Tehran, Iran, 18.74/20
- 1996 B.sc in Polymer Engineering from Amirkabir University of technology, Tehran, Iran
- 1993 Baccalaureate in Mathematics from Evi sina High school

## PROFESSIONAL EXPERIENCE

- 2013 Associate professor at Hakim Sabzevari University (HSU)
- 2013 Invited researcher at laboratory of polymer material engineering at university of Lyon 1, France
- 2010 Researcher/professor at university of Sabzevar, Iran, Best researcher of university in 2012, 2013, 2015 (1/350).
- 2009 Researcher/professor at university of Tehran, Iran
- 2007 Post-doctorate at research laboratory of polymer materials engineering at university of Lyon1, France, collaboration with Arcelormittal Company, Two publications.

- 2004 Ph.D. student in the laboratory of chemistry and polymerization process LCPP/CNRS CPE- Lyon, France
- 2000 Researcher on polymer science (resin, Paint and composite) and responsible for R&D in the Gireh Chemical Co. Tehran, Iran
- 1998 Research: Laboratory of resin and composite in Amirkabir University of Technology, Tehran, Iran
- 1998 Teaching at METRA in the field of resins and coatings, Tehran, Iran
- 1997 Research Engineer on paint and resin in the Institute of Paint Research Sinalon Institute, Tehran, Iran
- 1996 Post-Graduate Internship at the Khosh Paint Factory, Tehran, Iran
- 1995 Research: Laboratory of Resin and Coating of the Bajak Farcofy, Saveh, Iran
- 1994 Research: Laboratory of Paint and Resin & laboratory of quality control of coating at the Amirkabir University of Technology

### Publications

1. **G.A. Farzi**, T. F.L. McKenna, E. Bourgeat-Lami, Miniemulsion polymerization using static mixer: a feasibility study using simple inline static mixers, journal of applied polymer science, 2009, 2114, (6), 3875 - 3881.
2. Roland Rahme, **G.A Farzi**, Christian Graillat, Timothy McKenna, Thierry Hamaide, Miniemulsion Polymerizations Using Static Mixers: Towards High Biocompatible Hydrophobe Contents, Macromoleculal chemistry and physics, 2010, 211(21), 2331–2338
3. **G.A. Farzi**, T. F.L. McKenna, E. Bourgeat-Lami, Miniemulsion polymerization using static mixer: Part 2. Co-emulsification and composite materials using SMX static mixers, The Canadian journal of chemical engineering, 2011, 89 (6), 1434-1440
4. S. Akbar, E.Beyou, P.Cassagnu, **G.A.FARZI**, Radical grafting of polyolefin onto MWCNTs: a model compound approach, Polymer, 50, (2009), 2535-2543
5. U. El-Jaby, **G.A. Farzi**, E. Bourgeat-Lami, M. Cunningham, T. F.L. McKenna, Emulsification for Latex Production using Static Mixers, Macromol Symposia 2009, 281, 77–84
6. **G.A.Farzi**, E. Bourgeat-Lami, T.F.L. McKenna, Synthesis of polyacrylic/silica nanocomposite latexes using static mixer, Macromol Symposium, 2010, 289(1), 129-134
7. **G.A.FARZI**, S. Akbar, E.Beyou, P.Cassagnu, Functionalization of carbon nanotubes in the presence of peroxide and dispersion in polypropylene matrix, Polymer, 2009, vol. 50, n°25, pp. 5901-5908
8. M.Mortezaei, **G.A.FARZI**, A.Zabipour, Evaluation of the effect of interfacial layer in polystyrene/silica nanocomposites, journal of applied polymer science, 2011, 119(4), 2039-2047
9. E. Bourgeat-Lami, **G.A.Farzi**, L. David, J-L. Putaux, T.F. McKenna, Miniemulsion polymerization of silica-loaded nanodroplets, Langmuir, 2012, 28 (14), 6021–6031
10. **G.A.FARZI**, M.Mortezaei, A. Badiei, Relationship between droplet size and fluid flow characteristics in emulsification by static mixer, journal of applied polymer science, 2011, 120, 3, 1591-1596.

11. Mehdi Abdollahi, Masoud Rezaei, **G.A.FARZI**, A novel active bionanocomposite film incorporating rosemary essential oil and nanoclay into chitosan, *Journal of Food Engineering*, 2012, 111(2), 343-350
12. Mehdi Abdollahi, Masoud Rezaei, **G.A.FARZI**, Improvement of active chitosan film properties with rosemary essential oil for food packaging, *International Journal of Food Science and Technology*, 2012, 47 (4), 847-853
13. N. Chehata, A. Ltaief, **A. Farzi**, A. Bouazizi, Charge Transfer Properties in MEH-PPV/PS: MWCNTs Nanocomposites, *Journal of Surface Engineered Materials and Advanced Technology*, 2012, 2, 174-181
14. Mehdi Abdollahi, Masoud Rezaei, **G.A.FARZI**, Chitosan/Clay Functional Bionanocomposite Activated With Rosemary Essential Oil: Influence On The Shelf-Life Of Fresh Silver Carp, *International Journal of food science and technology*, 2014, 49 (3), 811-818
15. M. Vakili Azghandi, A. Davoodi, **G.A. Farzi**, A. Kosari, Water-base acrylic terpolymer as a corrosion inhibitor for SAE1018 in simulated sour petroleum solution in stagnant and hydrodynamic conditions, *Corrosion science*, 2012, 64, 44-54.
16. N. Chehata, A. Ltaief, **A. Farzi**, B. Ilahi and A. Bouazizi, Effect of functionalisation of MWCNTs on optical and morphological properties of MEH-PPV/MWCNTs nanocomposites, *Int. J. Nanotechnology*, 2013, Vol. 10, Nos. 5/6/7, 577-586
17. M. Vakili Azghandi, A. Davoodi, **G.A. Farzi**, Corrosion inhibitive evaluation of an environmental friendly water-base acrylic terpolymer on mild steel in hydrochloric acid media, *Metallurgical and Materials Transactions A*, 2013, 44 (12), 5493-5498
18. **G.A.FARZI**, S.NAGHIBI, R. TAYEBI, Influence of coupling agent on dispersion of ZnO nano-particles in organic media, *Journal of nanodimension*, 2014, accepted to publish
19. Mehdi Abdollahi, Masoud Rezaei, Gholamali Farzi: Original article Influence of chitosan/clay functional bionanocomposite activated with rosemary essential oil on the shelf life of fresh silver carp. *International Journal of Food Science & Technology* 2014; 49(3):811-818. DOI:10.1111/ijfs.12369
20. Mehdi Abdollahi, Masoud Rezaei, **G.A.FARZI**, Preparation and characterization of biodegradable nanocomposite for food packaging, *Iranian Food Science and Technology Research Journal* Vol. 7, No. 1, 2011, p. 71-79
21. Amin Imani, Morteza farkhondekalam Ghadim, Gholamali Farzi: Synthesis of PPy–silver nanocomposites via in situ oxidative polymerization. *Journal on nanostructure in chemistry*, 04/2014; 4(2). DOI:10.1007/s40097-014-0101-6
22. Amin Imani, **Gholamali Farzi**, Adnen Ltaief, Facile synthesis and characterization of polypyrrole-multiwalled carbon nanotubes by in situ oxidative polymerization, *International journal of nano letters*, 2013, 3:52,
23. Maryam Mohammadpour Nazarabady, **Gholam Ali Farzi**: Morphology control of silica/poly(methyl methacrylate-co-styrene) hybrid nanoparticles via multiple-mini-emulsion approach. *e-Polymers* 01/2016; 16(2). DOI:10.1515/epoly-2015-0205
24. **G.A. Farzi**, Mehrzad Mortezaei: Acrylic Latexes Prepared Via Miniemulsion Polymerization Technique for Improvement of Soil Behavior. *NanoScience and Technology* 01/2016; 2(1):50-54.

25. **G.A. Farzi**, Niki Rezazadeh, Armin Parsian Nezhad: Homogenization Efficiency of Two Immiscible Fluids in Static Mixer Using Droplet Tracking Technique. *Journal of Dispersion Science and Technology* 11/2015; DOI:10.1080/01932691.2015.1115362
26. **G. A. Farzi**, A. Parsian Nejad: An Image-Based Technique for Measuring Droplet Size Distribution: The Use of CNN Algorithm. *Journal of Dispersion Science and Technology* 11/2015; DOI:10.1080/01932691.2015.1090321
27. Ali Davoodi, Saleh Honarbakhsh, **Gholam Ali Farzi**: Evaluation of corrosion resistance of polypyrrole/functionalized multi-walled carbon nanotubes composite coatings on 60Cu–40Zn brass alloy. *Progress in Organic Coatings* 11/2015; 88:106-115. DOI:10.1016/j.porgcoat.2015.06.018
28. M Shariati, **G A Farzi**, A Dadrasi, M Amiri, R Rashidi Meybodi: An Experimental Study on Toughening Mechanisms of Fillers in Epoxy/ Silica Nanocomposites, *International journal of nanoscience and nanotechnology*, 2015, Vol.11, 193-199.
29. Ali Rajaei, **Gholamali Farzi**: Encapsulation of paclitaxel in ultra-fine nanoparticles of acrylic/styrene terpolymer for controlled release. *Colloid and Polymer Science* 09/2015; 294(1). DOI:10.1007/s00396-015-3752-z
30. AMIN IMANI, **GHOLAMALI FARZI**: VRH investigation of polyaniline–multiwalled carbon nanotube nanocomposite network. *Bulletin of Materials Science* 08/2015; 38(4). DOI:10.1007/s12034-015-0951-7
31. A. Hajibadali, M. Baghaei Nejad, **G. A. Farzi**: Schottky Diodes Based on Polyaniline/Multi-Walled Carbon Nanotube Composites. *Brazilian Journal of Physics* 08/2015; 45(4). DOI:10.1007/s13538-015-0334-y
32. Amin Imani, **Gholamali Farzi**: Facile route for multi-walled carbon nanotube coating with polyaniline: tubular morphology nanocomposites for supercapacitor applications. *Journal of Materials Science Materials in Electronics* 07/2015; 26(10):1-7. DOI:10.1007/s10854-015-3377-5
33. **G. A. Farzi**, N. Rezazadeh, A. Parsian Nejad: Droplet Formation Study in Emulsification Process by KSM Using a Novel In-situ Visualization System. *Journal of Dispersion Science and Technology*, 06/2015; 37(4):150610064228003, DOI:10.1080/01932691.2015.1052144
34. Mahmoud Shariati, **Gholamali Farzi**, Ali Dadrasi: Mechanical properties and energy absorption capability of thin-walled square columns of silica/epoxy nanocomposite. *Construction and Building Materials* 03/2015; 78. DOI:10.1016/j.conbuildmat.2015.01.031
35. Hamid reza Dinmohammadi, Ali Davoodi, **Gholamali Farzi**, Bahman Koroji, Water-based acrylic copolymer as an environment-friendly corrosion inhibitor onto carbon steel in 1 M H<sub>2</sub>SO<sub>4</sub> in static and dynamic conditions, *International Journal of Mechanical and Materials Engineering*, 2014, 9:24,
36. Maryam Lashanzadegan, **Gholamali Farzi**, Nasrin Erfaninia: Synthesis and surface modification of aluminum oxide nanoparticles. *Journal of Ceramic Processing Research* 01/2014; 15(5):316-319.
37. N. Chehata, A. Ltaief, **A. Farzi**, B. Ilahi, A. Bouazizi: Effect of functionalisation of MWCNTs on optical and morphological properties of MEH-PPV/MWCNTs nanocomposites. *International Journal of Nanotechnology* 01/2013; 10(5/6/7):577-. DOI:10.1504/IJNT.2013.053526

38. Amin Imani, **Gholamali Farzi**, Adnen Ltaief: Facile synthesis and characterization of polypyrrole-multiwalled carbon nanotubes by in situ oxidative polymerization. 01/2013; 3(1-1):52. DOI:10.1186/2228-5326-3-52
39. Nadia Chehata, Olfa Dhibi, Adnen Ltaief, **Ali Farzi**, Abdelaziz Bouazizi: Charge Transfer Properties in MEH-PPV/PS:MWCNTs Nanocomposites. Journal of Surface Engineered Materials and Advanced Technology 01/2012; 02(03). DOI:10.4236/jsemat.2012.23028
40. Mehrzad Mortezaei, **Gholamali Farzi**, Mohammad Reza Kalae, Mahmood Zabihpoor: Evaluation of Interfacial Layer Properties in the Polystyrene/Silica Nanocomposite. Journal of Applied Polymer Science 02/2011; 119(4). DOI:10.1002/app.32902
41. Poostforooshan, J., Badii, **A., Farzi**, G., Goldooz, H., & Weber, A. P. Investigation of environmental and concentration effects on fluorescence properties of AlQ3 using mesoporous silica and polyacrylate. Chemical Papers, 1-8.
42. Ghamari, Misagh, and **Gholamali Farzi**. "Frequency and composition dependency of optical and dielectric properties of PMMA/boehmite nano-hybrid prepared via facile aqueous one-pot process." Modern Physics Letters B 31.11 (2017): 1750120.
43. Imani, Amin, and **Gholamali Farzi**. "Low temperature process of electronic charge transport mechanism in PANi/MWCNT nanocomposites: tubular morphology." Journal of Materials Science: Materials in Electronics (2017): 1-9.
44. Matindoust, S., **Farzi, A.**, Nejad, M. B., Abadi, M. H. S., Zou, Z., & Zheng, L. R. (2017). Ammonia gas sensor based on flexible polyaniline films for rapid detection of spoilage in protein-rich foods. Journal of Materials Science: Materials in Electronics, 28(11), 7760-7768.
45. Nazarabady, Maryam Mohammadpour, and **Gholam Ali Farzi**. "Tunable morphology for silica/poly (acrylic acid) hybrid nanoparticles via facile one-pot synthesis." Macromolecular Research 24.8 (2016): 716-724.
46. Imani, Amin, Mahbube Arabi, and **Gholamali Farzi**. "Effect of in-situ oxidative preparation on electrical properties of Epoxy/PANi/MWCNTs nanocomposites." Journal of Materials Science: Materials in Electronics 27.10 (2016): 10364-10370.
47. Dhahri, A., Serghei, **A., Farzi**, G., Baouab, M. H. V., & Beyou, E. (2016). Chitosan-dithiooxamide-grafted rGO sheets decorated with Au nanoparticles: Synthesis, characterization and properties. European Polymer Journal, 78, 153-162.

### **Contribution in Conferences**

1. **G.A.FARZI**, D. Zarei, S.M. Kassiriha, "Preparation and property study of electrical insulating varnishes", 2<sup>nd</sup> international conference of paint and chemicals", Feb 2002, Tehran Iran
2. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, C.Graillat, "Comparative study of miniemulsion polymerization and conventional polymerization of acrylic monomers", Club emulsion 2005, Montpellier, France, 26-27 September 2005.
1. **G.A.FARZI**, E.Bourgeat Lami, T.F.Mckenna, C.Graillat, "Preparation of *SiO<sub>2</sub>/PbuA-Co-PMMA Nanocomposites latex via miniemulsion polymerization* for coating and adhesives applications", Eleventh Meeting of the UK Polymer Colloids Forum, 11-12 September 2006, The University of Manchester, UK

2. **G.A.FARZI**, E.Bourgeat Lami, T.F.Mckenna, C.Graillat, “Stability of silica-loaded nanoparticles, in *miniemulsion polymerization*”, Club emulsion 2006, Strasbourg, France, 18-19 September 2006,
3. **G.A.FARZI**, E.Bourgeat Lami, T.F.Mckenna, C.Graillat, J.L Putaux, *Synthesis of silica /Polyacrylate nanocomposites latexs* by miniemulsion polymerization, 2nd International symposium on nanostructured and functional polymer-based materials and composites, Lyon, France, May 29-31,2006
6. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, Synthesis of polyacrylic waterbase resins via miniemulsion, Strasbourg, France, 2006, Club emulsion,
7. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, Polymeric nanocomposite for drug release control, August, 2006, Tehran, Iran
8. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, Silica/polyacrylate nanocomposite latexes via conventional emulsion and miniemulsion polymerization (A comparison), September, 2007, Lyon, France
9. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, Silica/acrylic hybrid coatings via miniemulsion nanodroplet formation and polymerization, international conference of Hybrid and nano coating, March 2007, Belgium, Brussels
10. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, Miniemulsion polymerization of methylmethacrylate nanodroplets created by a novel homogenization device: static mixer, 8<sup>th</sup> international seminar on polymer science and technology, 2007, Tehran, Iran
11. U. El-Jaby, **G.A. FARZI**, T.F.L. McKenna, Miniemulsification: In-line mixers and rotor stators as emulsification devices, Germany, July, 2007
12. **G.A. FARZI**, T.F. McKENNA, E.BOURGEAT-LAMI, Mechanism of droplet formation in emulsification of the monomer with static mixer, 20th forum of Jacques Cartier, LYON, France,2007.
13. Ula El-Jaby, **G.A Farzi**, Elodie Bourgeat-Lami, Michael Cunningham, Timothy F.L. McKenna, Emulsification for Latex Production using Static Mixers, Prague, Cheque , 2008
14. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, Incorporation of silica into polyacrylate latex for adhesive application through miniemulsion and mixed mode polymerization, Canada, May, 2009,
15. **G.A.FARZI**, T.F. McKenna, E.Bourgaet Lami, Synthesis of polyacrylate/silica nanocomposite latexes using static mixer, Canada, 2009
16. **G.A.FARZI**, E.Beyou, P.Cassagnu, Electrical properties of polypropylene/CNT nanocomposites, UFNM, Tehran, Iran, 2010
17. **G.A.FARZI**, E.Beyou, P.Cassagnu, Preparation of conductive multiwalled carbon nanotube/ Polypropylene nanocomposites, MOLMAT, Montpellier, France, July 2010
18. Mehdi ABDOLLAHI, Masud REZAEI, **Gholamali FARZI**, INCORPORATION OF ROSEMARY ESSENTIAL OIL INTO CHITOSAN, Euromat, Septembre 2011, Montepellier, France.
19. Mehdi ABDOLLAHI, Masud REZAEI, **Gholamali FARZI**, Preliminary study in optimization of bionanocomposite for food packaging, Conference of Fisheries , Tehran, Iran, 2011.
20. **Gholamali FARZI**, Mehrzad Mortezaei, Estimation of droplet size using fluid flow characteristics in emulsification and synthesis of nano-hybrid materials, Nanocomposite 2011, 7-10 Juin 2011, Paris, France

21. W. Aloui, A. Ltaief, **A. Farzi**, A. Bouazizi, Flexible electrodes as anode for organic solar cells, RAM 2011, The First International Conference on "Research to Applications & Markets», Monastir, Tunisia, June 23-25, 2011

22. N. Chehata, A. Ltaief, **A. Farzi**, A. Bouazizi, Charge transfer properties in MEH-PPV/PS:Carbon Nanotubes nanocomposites for photovoltaic application, RAM 2011, The First International Conference on "Research to Applications & Markets», Monastir, Tunisia, June 23-25, 2011

23. **G.A. FARZI**, A. ALIABADI, M.R. Gangali, P. Norozi, A. Darvishi, H. Bahrami, Superabsorbent Polymers for dust control, First international congress on Dust haze, 15-17 February 2012, Ahwaz, Iran

24-**G.A. FARZI**; A. ALIABADI, The use of nano-structure polymers in dust control, First International Forum on Natural Airborn Dust in IRAN, Kermanshah University of Medical Sciences, 23-25 May, 2012, Kermanshah, Iran

25- **G.A. FARZI**, F. Adibian; M.R. Gangali; P. Norozi; A. Darvishi; H. Bahrami; A. Khoshnevis, Evaluation of the Performance of Synthetic Polymers for Dust Stabilization, First international congress on Dust Haze, 5-17 February 2012, Ahwaz, Iran

26. A. Imani, **G.A. FARZI**, Comparison between silicon based and organic based photovoltaic solar cells, 8-11 Oct. 2012, Aix les bains, France

...

27. Maryam Mohammadpour, **Gholamali FARZI**, One-pot synthesis of film-forming core-shell P(acrylic acid-co- 2-ethylhexyl acrylate)/silica nanohybrids and UV-adsorption capacity, 22-24 January 2016, Torino, Italy.

28. Maryam Mohammadpour, Gholamali FARZI, Efficient one-pot synthesis of tough and stretchable dumbbell-like and core-shell p(acrylic acid)/silica nanohybrids, 22-24 January 2016, Torino, Italy.

29. Misagh ghamari and **G.A. FARZI**, A straightforward approach for concurrent particle formation and surface modification of boehmite nanoparticles via in-situ surface modification, ECOSS, (2016) Grenoble France.

30. Ali Rajaei and **G.A. FARZI** The effect of monomer composition in the synthesis of paclitaxel loaded poly (styrene-co-methyl methacrylate) novel nanoparticles for controlled release. (2015) USA.

31. Maryam Mohammadpour, Gholamali FARZI, In vitro Electrochemical and Antibacterial Performance of P(acrylic acid-co- 2-ethylhexyl acrylate)/silica nanohybrids, ECOSS, (2016) Grenoble France.

32. Maryam Mohammadpour, Gholamali, Farzi, One-pot synthesized p(acrylic acid)/silica nanohybrids coatings for protective applications, ECOSS, (2016) Grenoble France.

### **Prizes, awards, fellowships**

1. Short-term research program award, 2013, (3 months research program), Ministry of research, science and technology of Iran, the program has done at university of Lyon1, Lyon, France
2. Short-term research program award, 2014, (6 months research program), Ministry of research, science and technology of Iran, the program has done at university of Lyon1, Lyon, France
3. Winner of prize best academic researcher in 2012 at Hakim Sabzevari University.
4. Post-doctorate fellowship 2008-2009, university of Lyon1, Lyon, France
5. Ph.D. overseas scholarship award, 2004, for studying Ph.D. abroad (42 months), Ministry of research, science and technology of Iran, Ph.D. has done at Insa de Lyon, Lyon, France (Ranking 2 /450)
6. Winner of prize best academic researcher in 2013 at Hakim Sabzevari University.
7. Winner of prize best academic researcher in 2015 at Hakim Sabzevari University.
8. Best lecture in the 6<sup>th</sup> international conference of advanced materials, Italy, 22-24 January 2016.

#### **Invited seminars**

1. Nanotechnology from beginning to 2011, Nov. 2011, University of Shahrod, Iran,
2. Application of nanostructured polymers in dust control for clean environment, Feb. 2012, Ramin University of Khozestan, Iran
3. Introduction to nanotechnology, Oct.2011, University of Sabzevar, Sabzevar, Iran
4. Nanotechnology at a glance, Impact on our life and environment, March 2012, University of Monastir, Tunisia,
5. Polymeric nanocomposites, Synthesis and properties and applications, March 2012, University of Monastri, March 2012
6. Production of water-based polymeric nanocomposite, Juin 2012, University of Tehran, Tehran, Iran
7. Dust control and environment protection with nanostructured polymers, Dec. 2013, Ramin University of Khozestan, Iran

#### **Books**

1. . Mesoporous Silica/Organic Nanocomposites, Jalal Poostforooshan Alireza Badiei, Gholamali Farzi, Alfred Weber
2. Mico and nanopolyaniline, synthesis properties and application, G.A. FARZI, 2012, University of Sabzevar, Sabzevar, Iran

#### **Patents**

Chitosan/nanoclay composite films for food packaging, Mehdi ABDOLLAHI, Masoud REZAEI, Gholamali FARZI, 2011, Iranian patent office

#### **Organisation of events (international conferences, seminars...)**

Seminars: Polymer nanocomposites for photovoltaic cellules, February 2010, university of Tehran, Iran,

#### **Selected teaching courses**

«Fabrication of polymer composites», Master of science, Hakim Sabzevari university, IRAN  
 «Resins and reinforcements», Master of science, Hakim Sabzevari university, IRAN  
 «Polymer composites», Master of science, Hakim Sabzevari university, IRAN



« Polymeric thin films » Ph.D. Level, Hakim Sabzevari University, IRAN  
 « Advanced course in polymer synthesis» Ph.D. Level, Hakim Sabzevari University, IRAN  
 « Encapsulation of nanoparticles» Ph.D. Level, Hakim Sabzevari University, IRAN  
 «Special topics in polymer electronics», Ph.D. level, Electrical engineering faculty, HSU, IRAN  
 « Polymer Composite manufacturing», Master of science, Hakim Sabzevari University, IRAN  
 « Advanced course in nanotechnology» Master of science, Hakim Sabzevari University, IRAN  
 « Transfer phenomena» Bachelor of Science , Hakim Sabzevari University, IRAN  
 « Advanced course in polymer materials» Master of science, Hakim Sabzevari University, IRAN  
 « General chemistry», Bachelor of Science, Hakim Sabzevari University, IRAN  
 « Synthesis of nanostructured materials » Master of science, University of Tehran, IRAN  
 « Polymer Materials» Bachelor of Science, Hakim Sabzevari University, IRAN  
 « Resins, synthesis characterization and properties» Master of science, University of Tehran, IRAN

### Management Experience

2010-2014 Director of technology incubator at Hakim sabzevari university, IRAN  
 2011-2012 Head of Department of Material and polymer engineering, IRAN  
 2010-Present, Director of the Laboratory of polymer nanocomposites (LNP), Sabzevar, IRAN

### International, industrial collaborations, experience in foreign countries

Post-doctoral fellowship for Arcelor Mittal company at university of Lyon1 (Two publications)  
 Invited researcher at laboratory of polymer material engineering @ university of Lyon 1, France (one publication in press)  
 Collaboration with university of Monastir, Tunisia (Two publications)

### Supervised Master Thesis

**Jalal Postfroshan**, Polymer/Silica-8-hydroxyquinoline nanocomposite prepared via emulsion polymerization, university of Tehran, Tehran, IRAN, 2011  
**Mehdi Abdollahi**, The effect of chitosan/nanoclay nanocomposite films enriched with rosmarin essential oil on conserving of Fitofak fish at 4°C, university of Tarbiat modaress, Tehran, IRAN, 2011  
**Mojtaba kavili**, Inhibiting properties of MMA/BuA/AA emulsion terpolymer on carbon steel in various aqueous media, Hakim Sabzevari University, Sabzevar, IRAN, 2012  
**Sara Naghibi nasab**, Surface modification of ZnO nanoparticles and synthesis of ZnO/polyacrylic nanocomposites, Hakim Sabzevari University, Sabzevar, IRAN, 2012  
**Salehe Honarbakhsh**, Synthesis of CNT/Polyaniline and CNT/Polyapyrrole nanocomposites, Hakim Sabzevari university, Sabzevar, IRAN, 2012  
**Amin Imani**, Synthesis of CNT/Polypayrole nanocomposite via oxydaitive in-situ polymerization, Hakim Sabzevari University, Sabzevar, IRAN, 2013  
**Morteza Farkhondelkalam**, Encapsulation of silver nanoparticles in acrylic polymers, Hakim Sabzevari University, Sabzevar, IRAN, 2013  
**Ali Rajae**, Encapsulation of paclitaxel in ultra-fine nanoparticles of acrylic/styrene terpolymer for controlled release, Hakim Sabzevari University, Sabzevar, IRAN, 2014  
**Maysam Mosayebi**, Self-cleaning polymeric coating for steel, Hakim Sabzevari University, Sabzevar, IRAN, 2014  
**Armin Parsian nejad**, Experimental study and modelling of static mixer for emulsification of two phase liquids, Hakim Sabzevari University, Sabzevar, IRAN, 2015

**Mahbobeh Arabi**, Preparation of PANi/MWCNT/Epoxy nanocomposites, Hakim Sabzevari University, Sabzevar, IRAN, 2015

### **Supervised Ph.D Thesis**

**Ali dadrasi**, Experimental study and simulation of mechanical properties of Silica filled epoxy resins, Shahroud university, Sep. 2015.

**Asgar Hajibadali**, Fabrication of schotky diods based on MWCNT/PANI or MWCNT/PPY nanocomposites, Hakim Sabzevari University, Feb. 2016.

**Maryam Mohammadpour**, Synthesis of silica/polyacarylic nanocomposites via simoultanouse polymerization of monomer and sol-gel formation of silica from inorganic precursor. Jan. 2017

**Amin Imani**, The study of polymeric solar cells efficiency based on MWCNT/PANI and/or MWCNT/PPY nanocomposites. May 2017.

### **Ph.D Thesis currently in supervision**

**Misagh Ghamari**, Synthesis of Bohemit/polyacarylic nanocomposites via simoultanouse polymerization of monomer and sol-gel formation of bohemite.

**Hamireza Azim**, Encapsulation of ethanol in polymer for petrol application.

**Mohammad Samiei**, synthesis of core shell inhibitive active material via miniemulsion polymerization

**Samaneh matindoost**, Polymeric ammonia gas sensor for rapid detection of spoilage in protein-rich foods

### **Languages**

French- Fluent

English- Fluent

Persian - Native language

Turkish- Bilingual

Arabic- Intermediate