

Malihe Pishvaei

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Research Interests

Emulsion and miniemulsion polymerization (Waterborne resin, Nanocomposite materials...)

Polymer blends and composites (Processing and characterization)

Rheology of polymeric compounds and materials

Educational Background

Université Claude Bernard Lyon1, Lyon, FRANCE Ph.D 2005

Field of study: Polymer chemistry

Amirkabir university of technology (Tehran polytechnic) -Tehran-IRAN M.Sc 2000

Field of study: Polymer Engineering

Amirkabir university of technology (Tehran polytechnic)-Tehran-IRAN B.Sc 1997

Field of study: Polymer Engineering

PhD Dissertation

Experimental and Theoretical Study on the Rheology of Concentrated Monomodal and Bimodal latex

Master Thesis

Study on Preparation and Properties of Thermo Plastic Elastomers Based on NR/PE Using Simple Blending and Dynamic Vulcanisation

Honors and Awards

Rank first out among all undergraduate students of polymer engineering department 1997

Honoured doctorate degree from Lyon1 University of France (Très honorable) 2005

Foreign Languages

Persian: Native language

French: Good oral skill, living in France more than 4 years

English: Fluent

Arabic: Intermediate

German: Elementary

Research Projects

1-Encapsulation of thermochromic dyes with acrylic polymers

2-Preparation of water-based alkyd -acrylic hybrid resins via miniemulsion polymerization

3- Synthesis of water- based acrylic resins/ nano silica

4- Rheological behavior of lithography inks

5- Rheological properties of endodontic sealers

6- Rheological behavior of HEUR associative thickeners

7- Improving the dispersion of titanium dioxide in the base resin for the production of white master-batch in a twin screw extruder

- 8- Feasibility of application of resinous systems to prevent the erosion of stones
- 9- Acrylic base membrane adhesive correction to improve thermal properties
- 10- Modification of a membrane dispersion adhesive by cross-linker monomers

Supervision of Research Projects

- 1- Preparation of polymeric opals
- 2- Synthesis of antibacterial acrylate polymer/nanosilver via in situ miniemulsion polymerization
- 3- Study on the properties of UV cured clear coats in presence of nanoparticles
- 4 - Synthesis of conductive polymeric nanocomposites via emulsion polymerization
- 5- Synthesis of polymeric capsules used in self-healing coatings
- 6- Study on synthesis and viscoelastic properties of UV-cured acrylate based nanocomposites
- 7- Synthesis of Polypyrrole via emulsion polymerization
- 8- Synthesis of Polyaniline via inverse emulsion polymerization
- 9 - Synthesis of Indium tin oxide-conducting polymer via emulsion polymerization
- 10- Miniemulsion polymerization of pyrrole monomer in the presence of TiO₂ nanoparticles
- 11- Synthesis of Acrylic latex and improvement of its thermal properties using Silica aerogel
- 12- The effect of water- based acrylic resin coating on the soil properties
- 13- Investigating the rheological properties of compounds based on PVC resin used in Underbody coating

Teaching Experiences

- Advanced Polymer Reaction Engineering (M.Sc course)
- Advanced Polymer Rheology (M.Sc and Ph.D. course)
- Engineering of Industrial Resins (M.Sc course)
- Design of Polymerization Reactors (M.Sc course)
- Rheology (lab)
- Industrial resins (workshop)
- Chemistry and synthesis of polymers (lab)
- Rheology in paint and coating technology (workshop)

Review Work (ISI)

- Iranian polymer journal
- Progress in organic coatings
- Macromolecular Research
- Nanotechnology
- Polymer composites
- Journal of Reinforced Plastics and Composites
- Micron
- Polymer Bulletin
- Synthetic Metals
- Journal of Elastomers & Plastics
- Journal of Composite Materials

Publications

- 1- Modelling of the Rheological Properties of Bimodal Emulsions (**M. Pishvaei**, Ph. Cassagnau, T. F. McKenna). Polymer Reaction Engineering VI, Robin Hutchinson (Editor) February 2007, WILEY.
- 2- Smart Polymers: Preparation & Application (in Persian) (Chapt. 7: Self-healing polymer and

composites by **M. Pishvaei**, P.Kardar, H.Yari, R.Amini) 2021, Publisher: IPPI, IRAN.

3- Iranian encyclopedia of water- based paints and resins (in Persian) (Chapt. 2: Rheology of water based coatings by **M. Pishvaei**) 2022, Tehran, IRAN.

Journal papers

1- **Pishvaei, M.**; Graillat, C.; Cassagnau, P.; McKenna, T.F.; “Rheological behaviour of highly concentrated polystyrene latex near the maximum packing fraction of particles”; *DECHEMA Monographien* 138 (2004), 499-504.

2- **Pishvaei, M.**; Graillat, C.; McKenna, T.F.; Cassagnau, P.; “Rheological behaviour of polystyrene latex near the maximum packing fraction of particles”; *Polymer* 46 (2005), 1235-1244.

3- **Pishvaei, M.**; Graillat, C.; Cassagnau, P.; McKenna, T.F.; “Modelling the zero shear viscosity of a bimodal high solid content latex: calculation of the maximum packing fraction”; *Chemical Engineering Science* 61 (2006), 5768-5780.

4- **Pishvaei, M.**; Cassagnau, P.; McKenna, T.F.; “Modelling of the rheological properties of bimodal emulsions”; *Macromolecular Symposia*, 243(1) (2006), 63-71.

5- **Pishvaei, M.**; Graillat, C.; McKenna, T.F.; Cassagnau, P.; “Experimental investigation and phenomenological modelling of the viscosity- shear rate of bimodal high solid content latex” ; *J. Rheology* 51(1) (2007), 51-69.

6- **Pishvaei, Malihe**; “Synthesis of methyl metacrylate-co-butyl acrylate polymer used in water-borne paints by emulsion polymerization”; *Journal of Color Science and Technology* (in Persian) second year, Autumn 2(3) (2008), 159- 169.

7- Pakdaman S., Farshchi Tabrizi F., Fadaee M. M., **Pishvaei M.**,” Reaction calorimetry in the production of water based resins by emulsion polymerization process”; *Journal of Color Science and Technology* (in Persian) second year, Autumn 2(4) (2008), 199- 212.

8- **Pishvaei M.**,”Study on organic/inorganic nanocomposites prepared by emulsion polymerization" (in Persian); *Nano world* (Persian journal), 15, Summer (2009), 70-75.

9- Yazdi Mamaghani M., **Pishvaei M.** and Kaffashi B.;" A review of the antibacterial nanoparticles and their applications" (in Persian); *Nano world* (Persian journal), 20-21, Fall-winter (2010), 51-54.

10- Bastani S., **Pishvaei M.**, Jalili M., Sorooshnia Sh.; “The effect of pigment concentration and particle size distribution on the rheological behavior of lithography inks”; *Journal of Color Science and Technology* (in Persian), 4 (2) (2010), 91-103.

11- **Pishvaei M.** and Farshchi Tabrizi F.;" Synthesis of high solid content polyacrylate/nanosilica latexes via miniemulsion polymerization"; *Iranian polymer journal*, 19(9) (2010), 707-716.

- 12- Yazdi Mamaghani M., **Pishvaei M.** and Kaffashi B.; "Synthesis of latex based antibacterial acrylate polymer/nanosilver via *in situ* miniemulsion polymerization" *Macromolecular Research*, Vol.19, No. 3 (2011), 243-249.
- 13- Yousefi A. A., **Pishvaei M.**, Yousefi A., "Preparation of water-based Alkyd/acrylic hybrid resins", *Progress in Color, Colorants and Coatings*, 4 (2011), 15-25.
- 14- Arabi A. M., Ebadzadeh T., Yousefi A. A., **Pishvaei M.**, Marzban rad E., Najafi F.; " The Function of Nano-polystyrene Template and Comb Polycarboxylic Acid Surfactant in Synthesis of ZnS Nanoparticles via Hydrothermal Method "; *Iranian polymer journal*, 20(7) (2011), 559-569.
- 15- Arabi A. M., Ebadzadeh T., Yousefi A. A., **Pishvaei M.**, Marzban rad E., Zamani C.; "Hydrothermal synthesis of highly stabilised ZnS-Polystyrene hybrid nanoparticles"; *Micro & Nano letters*, 6(10)(2011), 844-847.
- 16- Najafi F. and **Pishvaei M.**; "Synthesis and characterization of nonionic urethane-based thickener"; *Progress in Color, Colorants and Coatings*, 4(2011), 71-77.
- 17- Soleimani-Gorgani A., **Pishvaei M.**, "Water fast of inkjet print by using acrylic/ nano-silver ink"; *Progress in Color, Colorants and Coatings*, 4(2011), 79-83.
- 18- Shaghghi M., Yousefi A. A., **Pishvaei M.** , "Synthesis of artificial opals with core-shell morphology via emulsion polymerization technique"; *e- polymer*, (2011) n. 020, 1-4.
- 19- Shaghghi M., Yousefi A. A., **Pishvaei M.**, "Study on synthesis and optical properties of polymeric opals with nanometric core-shell structure"; *Journal of Color Science and Technology* (in Persian), 6 (2012), 165-170.
- 20 - Babaei E., **Pishvaei M.**, Najafi F ."A review on the polymeric self-healing coatings: capsule- based self- healing coatings" (in Persian); *Journal of Studies in Color world* (Persian journal), 3 Fall (2012), 3-10.
- 21- Khedmat S., Momen-Heravi F., **Pishvaei M.**; "Rheological properties of endodontic sealers: the effect of time, temperature and composition "; *Iranian polymer journal* 21(7) (2012), 445-450.
- 22- Shamshiri M R., Yousefi A. A., **Pishvaei M.**, Ameri F.; "Artificial latex-based opals prepared by spin casting of monodispersed nano particles"; *Journal of polymer research*, 19 (7):9912, June. 2012, DOI 10.1007/s10965-012-9912-7.
- 23- Khedmat S., Momen-Heravi F., **Pishvaei M.**; "A Comparison of viscoelastic properties of three root canal sealers"; *Journal of Dentistry of Tehran University of Medical Sciences*, 10 (2) (2013), 147-154.
- 24- Zarshenas E., Bastani S., **Pishvaei M.**, "Curing Behavior Study of UV-Curable Coatings Containing Nano Silica and Different Multi-Functional Monomers via Depth Profiling Assessment" ; *Industrial & Engineering Chemistry Research*, 52 (2013), 16110–16117.

- 25- **Pishvaei M.**, Rouhani Sh., Madadi Sh., "Synthesis of a Fluorescent Nanocomposite of Methacrylate Polymer via miniemulsion polymerization"; *Polymer Bulletin*, 71(7),(2014), 1843-1855.
- 26- Soleimani- Gorgani A., **Pishvaei M.**, Gorji- Kandi S., Najafi F., Yekefallah V., "Solution process organic light-emitting diodes, part I: active layers"; *Journal of Studies in Color world* (in Persian), 5(1), (2014), 75-86.
- 27- Soleimani- Gorgani A., **Pishvaei M.**, Gorji- Kandi S., Najafi F., Yekefallah V., "Solution process organic light-emitting diodes, part II: electrodes", *Journal of Studies in Color world*. (in Persian), 5(1), (2014), 87-96.
- 28- Soltani F., **Pishvaei M.**, "Synthesize of hydrochloric acid doped polyaniline nanoparticles via inverse emulsion polymerization", *Journal of Color Science and Technology* (in Persian). Vol. 9, No. 4, Winter 2016, 333-340.
- 29- Moarref P., **Pishvaei M.**, Soleimani-Gorgani A., Najafi F., "Synthesis of polypyrrole /indium tin oxide nanocomposites via miniemulsion polymerization"; *Designed Monomers and Polymers*, 19(2), (2016), 138-144.
- 30- Khadem F., **Pishvaei M.**, Najafi F., Salami-Kalajahi M. "Study of effective factors on the conductivity of polypyrrole nanoparticles (doped with FeCl₃) synthesized via emulsion polymerization". *Journal of Color Science and Technology* (in Persian), 10(3), (2016), 145-154.
- 31- Khadem F., **Pishvaei M.**, Salami-Kalajahi M., Najafi F., "Morphology Control of Conducting PPy Nanostructures via Operational Conditions in the Emulsion Polymerization", *Journal of Applied Polymer Science*, 134(15), (2017), 44697.
- 32- Rouhani Sh., **Pishvaei M.**, "Photo-Physical Behavior and Fluorescence of Thermo Switchable Nanocomposite Based on Methyl Methacrylate–Spirobenzopyran"; *Journal of Fluorescence*, 27, (2017), 501-507.
- 33- Kazazi H., Khodaiyan F., Rezaei K., **Pishvaei M.**, Mohammadifar M. A., Moieni S., "Rheology and microstructure of kefir and whey protein mixed gels", *Journal of Food Science and Technology*, 54(5), (2017), 1168–1174.
- 34- Karami S., Motahari S., **Pishvaei M.**, Eskandari N., "Improvement of thermal properties of pigmented acrylic resin using silica aerogel", *Journal of Applied Polymer Science*. (2017), DOI: 10.1002/app.45640.
- 35- Saeedi F., Montazeri A., Bahari Y., **Pishvaei M.**, Ranjbar M., "Synthesis and Characterization of Chitosan-Poly Vinyl Alcohol-Graphene Oxide Nanocomposites", *International Journal of Chemoinformatics and Chemical Engineering*, 7 (1), January-June 2018.
- 36- Shirkavand Hadavand B., **Pishvaei M.**, Hosseiniasari M., "The role of nanoclay on surface roughness and characteristics of epoxy polysulfide nanocomposite" *Progress in Organic Coatings*, 131, (2019), 60-66.

- 37- Ghanbari D., Shirkavand Hadavand B., **Pishvaei M.**, “Investigating Viscoelastic Behavior of Resins, Organic Coatings and Nanocomposites” *Journal of Studies in Color world*. (in Persian), 9(1), (2019), 71-87.
- 38- Akbaripoor Tafreshinejad S., **Pishvaei M.**, Soleimani Gorgani A., “Synthesis of antibacterial conductive polypyrrole/ titanium dioxide core- shell nanocomposites” *Polymer Science B*, 62(2), (2020), 137–143.
- 39- Eftekhari B., **Pishvaei M.**,” A Review on the Poly(Vinyl Chloride) Plastisol Coatings and Its Rheology” *Journal of Studies in Color World* (in Persian), 10(3), (2020), 13-28.
- 40- Ghasemzadeh H., Mehrpajouh A., **Pishvaei M.**, Mirzababaei M., “Effects of curing method and glass transition temperature on the unconfined compressive strength of acrylic liquid polymer stabilized Kaolinite” *Journal of Materials in Civil Engineering*, 32(8) (2020) Doi:10.1061/(ASCE)MT.1943-5533.0003287
- 41- Saeedi F., Montazeri A., Bahari, Y., **Pishvaei, M.**; Jannat, B., Rasa M., Saeedi F., “Fabrication and characterization of chitosan-polyvinyl alcohol-graphene oxide nanocomposite scaffold for wound healing purposes” *Human, Health and Halal Metrics* 1(2) (2020), 47-55.
- 42- Ghanbari D., Shirkavand Hadavand B., **Pishvaei M.**, "Morphology and Viscoelastic Properties of UV cured-Polyurethane Acrylate/Silicon Carbide Nanocomposites" *Iranian Polymer Journal*, 30, (2021), 35-45.
- 43- Saeedi, F., Montazeri, A., Bahari, Y., **Pishvaei, M.**, Jannat B., "A study on the viscoelastic behavior of chitosan-polyvinyl alcohol-graphene oxide nanocomposite films as a wound dressing” *Polymers and Polymer Composites*, 29(8) (2021), 1259-1272.
- 44- Ghasemzadeh H., Mehrpajouh A., **Pishvaei M.**,” Effect of glass transition temperature of acrylic polymer on the geotechnical properties of fine grained soils” *Journal of Materials in Civil Engineering*, 33 (5)(2021) Doi:10.1061/(ASCE)MT.1943-5533.0003651.
- 45- Ghasemzadeh H., Mehrpajouh A., **Pishvaei M.**,” Laboratory analyses of Kaolinite stabilized by vinyl polymers with different monomer types”; *Engineering Geology* 280 (2021) 105938.
- 46- Ranjbar Hamghavandi, M.; Montazeri, A.; Ahmadi, A.; **Pishvaei, M.**,” Preparation and characterization of chitosan /graphene oxide nanocomposite coatings on Mg–2 wt % Zn scaffold by pulse electrodeposition process”; *Biomedical Materials*, 16 (2021) 065005.
- 47- Ghasemzadeh H., Mehrpajouh A., **Pishvaei M.**, “Compressive strength of acrylic polymer-stabilized Kaolinite clay modified with different additives” *ACS Omega* 2022, 7, 23, 19204–19215.
- 48- Akbaripoor Tafreshinejad S., Soleimani Gorgani A., **Pishvaei M.**, “Multifunctional screen-printed film using polymer nanocomposite based on Ppy/TiO₂: Conductive, photocatalytic, self-cleaning and antibacterial functionalities” *Iranian Polymer Journal*, 2023,doi.org/10.1007/s13726-023-01153-0.

49- Emrani S. M. H., **Pishvaei M.**, Jamshidi. M., "Investigation of Core-shell Polymer Structures With Application in Paint and Resin Industry" *Journal of Studies in Color world*. (in Persian), 2023.

International conference papers

1- **Pishvaei**, M.; Graillat, C.; McKenna, T.F.; Cassagnau, P. "Rheological behaviour of polystyrene latex near the maximum packing fraction of particles"; 40th International Symposium on Macromolecules, Macro 2004 (IUPAC), Paris-France, July 4-9, 2004.

2- **Pishvaei**, M.; Graillat, C.; McKenna, T.F.; Cassagnau, P. "Rheological behaviour of highly concentrated polystyrene latex near the maximum packing fraction of particles"; 8th International Workshop on Polymer Reaction Engineering, Hamburg- Germany, Oct. 3-6, 2004.

3- **Pishvaei**, M.; Graillat, C.; Cassagnau, P.; McKenna, T.F.; "Prediction the zero shear viscosity of bimodal latex based on the method of maximum packing fractions"; 4th International Seminar on Polymer Science and Technology (ISPST2005), Tehran- Iran, Sept. 27-29, 2005.

4- **Pishvaei** M., Cassagnau Ph., McKenna T.F.L., "Modelling of the rheological properties of bimodal emulsions," Polymer Reaction Engineering VI, Halifax- Canada, May 21-26, 2006.

5- **Pishvaei** M., "Comparing the properties of a nanocomposite latex as a superior coating resin", 2nd International Congress on Nanoscience and Nanotechnology (ICNN2008), Tabriz-Iran, Oct. 28-30, 2008.

6- **Pishvaei**, M.; "Synthesis of high solid content polyacrylate/ silica nanocomposites used as waterborne resins", EPF09: European Polymer Congress, Graz-Austria, July 12–17, 2009.

7- Shirkavand Hadavand B. and **Pishvaei** M., "Polysulfide polymer as a new modifier for bitumen", EPF09: European Polymer Congress, Graz-Austria, July 12–17, 2009.

8- Shirkavand Hadavand B. **Pishvaei** M. and Hossaini H.," Rheological behavior of modified bitumen with aromatic polysulfide" EPF09: European Polymer Congress, Graz-Austria, July 12–17, 2009.

9- **Pishvaei** M., Yousefi A. A., Yousefi A., "Miniemulsion polymerization as an efficient method to yield high solid content hybrid latex of acrylic/ alkyd resins", 9th International Seminar on Polymer Science and Technology: ISPST 2009, Tehran- Iran, Oct. 17-21, 2009.

10- Bastani S., **Pishvaei** M., Jalili M., Sorooshnia Sh., "The effect of pigment concentration and particle size distribution on the rheological behavior of lithography inks", 3rd International Color and Coatings Congress, Tehran- Iran, Nov. 16-18, 2009.

11- Bagheri B., **Pishvaei** M., Motahari S., "The effect of nano silica on the thermal properties of acrylic resins", 3rd International Color and Coatings Congress, Tehran- Iran, Nov. 16-18, 2009.

12- Yazdi Mamaghani M., **Pishvaei** M., Kaffashi B., Arabi A.M, "Preparation of waterborne nanocomposites resins based on nanosilver/ acrylate polymer", 3rd International Color and Coatings Congress, Tehran- Iran, Nov. 16-18, 2009.

- 13- Arabi A. M., Ebadzadeh T., Yousefi A.A., **Pishvaei M.**, Marzban E., Najafi F., "Hydrothermal synthesis of Polystyrene-ZnS core shell particles", 3rd International Color and Coatings Congress, Tehran- Iran, Nov. 16-18, 2009.
- 14- Yousefi A. A., **Pishvaei M.**, Yousefi A., "Preparation of Water-Based Alkyd/Acrylic Hybrid Resins", 3rd International Color and Coatings Congress, Tehran- Iran, Nov. 16-18, 2009.
- 15- Shaghghi M., Yousefi A. A., **Pishvaei M.**, "Synthesis of polymeric opals via stepwise emulsion polymerization", 3rd International Color and Coatings Congress, Tehran- Iran, Nov. 16-18, 2009.
- 16- **Pishvaei M.**, Mamaghani M. Y. , Kaffashi B. ; "Antibacterial effect of modified nanosized silver with a polymeric layer", 3rd International Congress on Nanoscience & Nanotechnology (ICNN 2010), Shiraz- Iran, Nov. 9-11, 2010.
- 17- Soleimani-Gorgani A., **Pishvaei M.**, Nabavi S. V., "Water fast inkjet print using acrylic/nano-silver ink", 3rd International Congress on Nanoscience & Nanotechnology (ICNN 2010), Shiraz- Iran, Nov. 9-11, 2010.
- 18- **Pishvaei M.**, Bagheri B., Motahari S., "Rheological behavior of nanocomposite resins based on nanosilica particles" 3rd International Congress on Nanoscience & Nanotechnology (ICNN 2010), Shiraz- Iran, Nov. 9-11, 2010.
- 19- Arabi A. M., Ebadzadeh T., Yousefi A.A., **Pishvaei M.**, Marzban rad E. "Hydrothermal synthesis of ZnS nanoparticles"; 3rd International Congress on Nanoscience & Nanotechnology (ICNN 2010), Shiraz- Iran, Nov. 9-11, 2010.
- 20- Zarshenas E., Bastani S., **Pishvaei M.**, "Study on interactions between BC/CC in UV curable automotive coating"; 12th RadTech Asia Conference, Yokohama- Japan , June 21-23, 2011.
- 21- **Pishvaei M.**, Mamaghani M. Y. , Kaffashi B.; " Modification of antibacterial properties of acrylate polymer/nanosilver nanocomposites"; IUPAC 9th International Conference on Advanced Polymers via Macromolecular Engineering (APME 2011), Cappadocia-Turkey, Sep. 5-8, 2011.
- 22- **Pishvaei M.**, Farshchi Tabrizi F., Fadaee M. M., Mohammadian Fard B.; "Kinetic effects of emulsifiers and buffer in emulsion polymerization of butadiene"; IUPAC 9th International Conference on Advanced Polymers via Macromolecular Engineering (APME 2011), Cappadocia-Turkey, Sep. 5-8, 2011.
- 23- Farshchi Tabrizi F., **Pishvaei M.**, Fadaee M. M.; "Kinetic effects of co-monomer in emulsion polymerization of butadiene"; IUPAC 9th International Conference on Advanced Polymers via Macromolecular Engineering (APME 2011), Cappadocia-Turkey, Sep. 5-8, 2011.
- 24- Arabi A. M., Ebadzadeh T., Yousefi A.A., Ghahari M., **Pishvaei M.**, Marzban rad E.; " Synthesis of SiO₂@ZnS:Ag core-shell nanophosphors"; 4th International Conference on Nanostructures (ICNS4), Kish Island-Iran, March 12-14, 2012.

- 25- Babaei E., **Pishvaei M.**, Najafi F.; "Synthesis and characterization of urea modified melamine-formaldehyde microcapsules containing healing agent"; 10th International Seminar on Polymer Science and Technology (ISPST 2012), Tehran- Iran, Oct 21-25, 2012.
- 26- Haghanifar M. H., **Pishvaei M.**, Pourmahdian S., Pakdel A. S.; "Synthesis of Nano-Structured Polyaniline by Direct Emulsion Polymerization"; 3rd International Conference on Nanomaterials: Applications and Properties (NAP-2013), Crimea- Ukraine, Sep 16-21, 2013.
- 27- Babaei E., **Pishvaei M.**, Najafi F.; "Encapsulation of epoxy resin using melamine formaldehyde and dual functional surfactant "; 5th International Color and Coatings Congress (ICCC2013), Isfahan-Iran, Dec 18-19, 2013.
- 28- Pakdel A., **Pishvaei M.**, Najafi F., Saeb M. R.; "Tailoring core-shell, PMMA/ZnO particles via Pickering emulsion polymerization"; 5th International Color and Coatings Congress (ICCC2013), Isfahan-Iran, Dec 18-19, 2013.
- 29- Ghanbari D., **Pishvaei M.**, Shirkavand Hadavand B.; "Synthesis and viscoelastic properties of UV cured polyurethane acrylate/silicon carbide nanocomposites"; 5th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA'14), Prague- Czech Republic, Aug 11-13, 2014.
- 30- Khadem F., **Pishvaei M.**, Salami-Kalajahi M., Najafi F.; "The influence of polymerization rate on the conductivity of nanosized polypyrrole synthesized via emulsion polymerization"; 5th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA'14), Prague- Czech Republic, Aug 11-13, 2014.
- 31- Moarref P., **Pishvaei M.**, Soleimani A.; "Synthesis of Indium tin oxide/ Polypyrrole Nanocomposites via Miniemulsion Polymerization"; 5th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA'14), Prague- Czech Republic, Aug 11-13, 2014.
- 32- Karami S., Motahari S., **Pishvaei M.**; "Improving Thermal Barrier Properties of Waterborne Acrylic Paints Using Silica Aerogel"; 11th International Seminar on Polymer Science and Technology (ISPST 2014), Tehran- Iran, Oct. 6- 9, 2014.
- 33- Shirkavand Hadavand B., **Pishvaei M.**, Hossaini Niasari M.; "Preparation of nanoclay/epoxy/polysulfide nanocomposite and study on its properties"; 27th International Symposium on Organic Chemistry of Sulfur,, From fundamental research to application“, Jena-Germany, July 24 – 29, 2016.
- 34- Akbaripoor Tafreshinejad S., **Pishvaei M.**, "Synthesis of Polypyrrole/ Titanium dioxide nanocomposites via miniemulsion polymerization"; The 7th International Color and Coating Congress, Tehran- IRAN, Dec. 19-20, 2017.
- 35- Akbaripoor Tafreshinejad S., Soleimani Gorgani A., **Pishvaei M.**, "Screen printing of Polypyrrole conductive ink" The 13th International Seminar on Polymer Science and Technology (ISPST 2018), Tehran- IRAN, Nov.19-22, 2018.

- 36- Eftekhari B., **Pishvaei M.**, "A rheological study of the aging of poly(vinyl chloride) plastisols", 1th International Conference on Rheology: Tehran- IRAN, Dec.17-18, 2019.
- 37- Akbaripoor tafreshinejad S., Soleimani-Gorgani A., **Pishvaei M.**, " Investigation of rheological behavior of PPy and PPy/ TiO₂ conductive inks imparted for screen printing" 1th International Conference on Rheology: Tehran- IRAN, Dec.17-18, 2019.
- 38- Montazeri A., **Pishvaei M.**, "Effect of multi-walled carbon nanotubes dispersion on the rheological properties of epoxy based nanocomposites" 1th International Conference on Rheology: Tehran- IRAN, Dec.17-18, 2019.
- 39- Ranjbar M., Saeedi F., Montazeri A., **Pishvaei M.**, " Preparation and characterization of chitosan / graphene oxide nanocomposite coatings on Mg–2 Wt. % Zn scaffolds by pulse electro deposition process", 8th International Conference on Nanostructures, Sharif University of Technology, Tehran- Iran, 18-20 Nov.2020.
- 40- Eftekhari B., **Pishvaei M.** "Gel structure of PVC plastisol: Rheological characteristics", The 8th international color and coating congress(ICC2021), Tehran, Iran, 13-14 Oct.2021.
- 41- Dehghani Ahmadabad P., **Pishvaei M.**, Jannesari A., Amiri Hasiri AA., "Silicone /Acrylic blended resin as a stone conservation coating" The 8th international color and coating congress (ICC2021), Tehran, Iran,13-14 Oct.2021.
- 42- **Pishvaei M.**, Eftekhari B.; "Gel structure of PVC plastisol used as automotive underbody coatings" The 2nd International Conference on Rheology(ICOR 2021) , Tehran, Iran, 14 - 15 Dec. 2021.

National patents

- 1- Antibacterial emulsion nanocomposite based on silver nanoparticles, N: 69032.
- 2- Antibacterial paint with a natural additive, N: 76973.
- 3- Waterborne acrylic paint with thermal insulation properties with the presence of micro porous inorganic particles, N: 87093