Name: Mohammad Amiri
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BSc.

University: Islamic Azad University (Science and Research Branch)
Major: Material Engineering- Ceramic Materials

Thesis: Fabrication of PMC Composite and Compare its Mechanical Properties with Polyethylene Resin
Supervisor:Dr. S. Baghshahi

Msc.

University: Sharif University of Technology
Major: Nanomaterials
Thesis: The Study of Structure and Mechanical Properties of Thermoplastic Starch/Polyethylene Alloy Nanocomposite Reinforced by Nanoclay
Supervisors: Prof. R. Bagheri, Dr. M. A. Faghihi Sani

PhD

Thesis:
Supervisors:

Research Experience:

- Research Assistant in International Nanobiotechnology Group, Harvard Medical School, Harvard-MIT Division of Health Sciences and Technology, Iran University of Medical Sciences. 2013-Present
- Research Assistant in Polymeric Materials Research Group, Sharif University of Technology. 2011-2014.
- Iranian Patent about Fabrication of PMC Composites Reinforced with Fiberglasses. Patent Number: 64320, 2010.
- Presentation of Seminars on "Nanotechnology in Agriculture".College of Agriculture and Natural Resources, University of Tehran. 2014.

Job Experience:

- The best Quality Control Manager in Tehran Province Industries by the Iranian National Standard Organization. 2012.
- Iranian Industrial Patent about Fabrication of Black Refractory Facade Brick. Patent Number: ID-8351, 2013.
- Member of the Codification Committee of "Firebox Brick for Residential Fireplaces-Specifications". Iranian National Standard Organization Number: 18886, 1st. Edition, 2014.

Publications:

-ISI Papers

1) Smart Micro/Nano Particles in Stimulus-Responsive Drug/Gene Delivery Systems. Chemical Society Review, 45, (2016), 1457-1501. DOI: 10.1039/C5CS00798D.

2)Temperature-Responsive Smart Nanocarriers for Delivery of Therapeutic Agents: Applications and Recent Advances. ACS Applied Materials & Interfaces, 8 (33), (2016), 21107–21133.
DOI: 10.1021/acsami.6b00371.

3) Thermoplastic starch/ethylene vinyl alcohol/forsterite nanocomposite as a candidate material for bone tissue engineering. Materials Science and Engineering: C, 69, (2016), 301–310.
DOI: org/10.1016/j.msec.2016.06.043.

4)Carbon nanotubes part I: preparation of a novel and versatile drug-delivery vehicle.Expert Opinion on Drug Delivery, 12(7), (2015), 1071-87. DOI: 10.1517/17425247.2015.1003806.

5)Carbon nanotubes part II: a remarkable carrier for drug and gene delivery. Expert Opinion on Drug Delivery, 12(7), (2015), 1089-105.DOI: 10.1517/17425247.2015.1004309.

- Conferences Articles

1)Evaluating The Effect of OrganomodifiedNanoclay on Mechanical properties of LDPE/Thermoplastic starch blends In Presence of PE-g-MA. 5th International Conference on Nanostructures (ICNS5), 2014– Kish Island, Iran.

2)Study on Physical and Mechanical Properties of Bagasse Fiber/Thermoplastic Starch Biocomposite. The 4th International Conference on Composites Characterization, Fabrication and Application, 2014– Tehran, Iran.

3)Review of Applications of Biodegradable Polymer based Nanocomposites in the Electricity and Energy Industries. 2th Professional Conference of Nanotechnology in the Electricity and Energy Industries, 2014– Tehran, Iran.

4)Study of Mechanical Properties of Thermoplastic Starch/Polyethylene Alloy Nanocomposite Reinforced by Nanoclay. 2th Professional Conference of Advanced Polymers in Food Packaging, 2013– Tehran, Iran.

5)Preparation and Mechanical properties of Thermoplastic Starch/LDPE/Organo-modified Clay Nanocomposite. Composites Week@Leuven, 2013– leuven, Belgium.

6)Quality Improvement of Clay Bricks on the basis of ISIRI7 Quality Control System. 9th Iranian Ceramic Congress (ICerS9), 2013– Tehran, Iran.

7)Production of Fiberglass-Reinforced Composites and Investigation of its Mechanical Properties. 8th Iranian Ceramic Congress (ICerS8), 2010– Tehran, Iran.

-Scientific Research Journals

1) The reinforcing effect of montmorillonite on thermoplastic starch/low density polyethylene matrix nanocomposite. Advances in Nanocomposite Research, Accepted, Onlined.