



## Reza Lotfi Mayan Sofla

Assistant Professor

College: Faculty of Polymer Engineering

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	On Contract	Full Time	5

### Papers in Journals

1. Elaheh Mehrbakhsh , Mostafa Rezaei , Reza Lotfi Mayan Sofla , Amin Babaie,Physical and thermo-mechanical properties of PCL/PEG based shape memory polyurethane for orthodontic ligature application,International Journal of Polymeric Materials and Polymeric Biomaterials,2024/3/3.
2. Erfan Sarkari et al.,Synthesis of recyclable polyurethane-based pseudo-vitrimer: comparison of properties with conventional polyurethane,Journal of Polymer Research,2023/9.
3. Mohammad Hossein Akbari Nasser et al.,Synthesis of diamond nanoparticles/urethane-based bio-adhesive and investigation of its morphology and thermal, physicomechanical, and biological properties,International Journal of Polymeric Materials and Polymeric Biomaterials,2023/6/20.
4. Mahdi Sakhavi , Reza Lotfi Mayan Sofla , Mostafa Rezaei , Mohammad Reza Miralvar,Synthesis of chemically-crosslinked multi-arm star-shaped polyurethane with triple-shape memory effect,Journal of the Mechanical Behavior of Biomedical Materials,2023/5/1.
5. Physical and thermo-mechanical properties of shape memory polyurethane containing reversible chemical cross-links,journal of the mechanical behavior of biomedical materials,2021/4/1.
6. Mahdi Elyasi Kojabad , AliAkbar Babaluo , Akram Tavakoli , Reza Lotfi Mayan Sofla, Haniyeh Golizadeh Kahnemouei,Comparison of acidic and basic ionic liquids effects on dispersion of alumina particles in Pebax composite membranes for CO<sub>2</sub>/N<sub>2</sub> separation: Experimental study and molecular simulation,Journal of Environmental Chemical Engineering,2021/10/1.
7. Polydimethylsiloxane-based polyurethane/cellulose nanocrystal nanocomposites: from structural properties toward cytotoxicity,Silicon,2021.
8. Maryam Jalili Marand , Mostafa Rezaei , Amin Babaie , Reza Lotfi,Synthesis, characterization, crystallinity, mechanical properties, and shape memory behavior of polyurethane/hydroxyapatite nanocomposites,Journal of Intelligent Material Systems and Structures,2020/8.
9. Neda Nour , Mostafa Rezaei , Reza Lotfi Mayan Sofla , Amin Babaie,Synthesis of reduced octadecyl isocyanate-functionalized graphene oxide nanosheets and investigation of their effect on physical, mechanical, and shape memory properties of polyurethane nanocomposites,Composites Science and Technology,2020/7/7.

10. Amin Babaie , Mostafa Rezaei , Reza Lotfi Mayan Sofla, Investigation of the effects of polycaprolactone molecular weight and graphene content on crystallinity, mechanical properties and shape memory behavior of polyurethane/graphene nanocomposites, *Journal of the mechanical behavior of biomedical materials*, 2019/8/1.
11. Reza Lotfi Mayan Sofla , Mostafa Rezaei , Amin Babaie, Investigation of the effect of graphene oxide functionalization on the physical, mechanical and shape memory properties of polyurethane/reduced graphene oxide nanocomposites, *Diamond and Related Materials*, 2019/5/1.
12. Parinaz Khadivi et al., Fabrication of microphase-separated polyurethane/cellulose nanocrystal nanocomposites with irregular mechanical and shape memory properties, *Applied Physics A*, 2019/11.
13. Reza Lotfi Mayan Sofla , Mostafa Rezaei , Amin Babaie , Mortaza Nasiri, Preparation of electroactive shape memory polyurethane/graphene nanocomposites and investigation of relationship between rheology, morphology and electrical properties, *Composites Part B: Engineering*, 2019/10/15.