



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

 Elaheh Mehrbakhsh , Mostafa Rezaei , Reza Lotfi Mayan Sofla , Amin Babaie, Physical and thermomechanical properties of PCL/PEG based shape memory polyurethane for orthodontic ligature application, International Journal of Polymeric Materials and Polymeric Biomaterials, 2024/3/3.
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 bioadhesive 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 Kahnamouei,Comparison of acidic and basic ionic liquids effects on dispersion of alumina particles in Pebax composite membranes for CO2/N2 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.

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Parinaz Khadivi et al.,Fabrication of microphase-separated polyurethane/cellulose nanocrystal nanocomposites with irregular mechanical and shape memory properties,Applied Physics A,2019/11.
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.