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## Publications

### Journals

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- Saadati, Maryam and Akhavan, Omid and Fazli, Hossein and Nemati, Shiva and Baharvand, Hossein, "Controlled differentiation of human neural progenitor cells on molybdenum disulfide/graphene oxide heterojunction scaffolds by photostimulation", ACS Applied Materials & Interfaces, Vol. 15, NO. 3, 2023
- Emamyari, Soheila and Mirzaei, Masoud and Mohammadinejad, Sarah and Fazli, Davood and Fazli, Hossein, "Impact of flexibility on the aggregation of polymeric macromolecules", The European Physical Journal E, Vol. 46, NO. 3, 2023
- Taherkhani, Ali and Fazli, Hossein and Taherkhani, Farid, "Application of janus magnetic nanoparticle Fe<sub>3</sub>O<sub>4</sub>@ SiN functionalized with beta-cyclodextrin in thymol drug delivery procedure: an in vitro study", Applied Organometallic Chemistry, Vol. 35, NO. 11, 2021
- Saadati, Maryam and Akhavan, Omid and Fazli, Hossein, "Single-Layer MoS<sub>2</sub>-MoO<sub>3</sub>-x Heterojunction Nanosheets with Simultaneous Photoluminescence and Co-Photocatalytic Features", catalysis, Vol. 11, NO. 11, 2021
- Kargar, Faezeh and Emadi, Saeed and Fazli, Hossein, "Dimerization of A $\beta$ 40 inside dipalmitoylphosphatidylcholine bilayer and its effect on bilayer



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- Emamyari, Soheila and Fazli, Hossein, "Single-chain conformational characteristics of comb-like polyelectrolytes: molecular dynamics simulation study", *Macromolecular Research*, Vol. 27, NO. 26, 2019
- Taheri, Fereshteh Samadi and Fazli, Hossein and Doi, Masao and Habibi, Mehdi, "Granular chain escape from a pore in a wall in the presence of particles on one side: a comparison to polymer translocation", *Soft Matter*, Vol. 14, NO. 26, 2018
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- Emamyari, Soheila and Fazli, Hossein, "Polymer translocation through a nanopore in the presence of chaperones: A three dimensional MD simulation study", *Computational Condensed Matter*, Vol. 13, NO. 7, 2017
- Khalilian, Hamidreza and Fazli, Hossein, "Obstruction enhances the diffusivity of self-propelled rod-like particles", *The Journal of Chemical Physics*, Vol. 145, NO. 16, 2016
- Emamyari, Soheila and Kargar, Faezeh and Sheikh-Hasani, Vahid and Emadi, Saeed and Fazli, Hossein, "Mechanisms of the self-assembly of EAK16-family peptides into fibrillar and globular structures: molecular dynamics simulations from nano-



to micro-seconds", European Biophysics Journal, Vol. 44, NO. 24, 2015

- Nikoofard, Narges and Fazli, Hossein, "A flexible polymer confined inside a cone-shaped nano-channel", Soft Matter, Vol. 11, NO. 24, 2015
- Emamyari, Soheila and Fazli, Hossein, "pH-dependent self-assembly of EAK16 peptides in the presence of a hydrophobic surface: Coarse-grained molecular dynamics simulation", Soft matter, Vol. 10, NO. 24, 2014
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