Personal Information

First Name: Amin

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Date of Birth: 1989

Nationality: Iranian

Marital status: Married

Current position: Assistant professor, Department of Medicinal Chemistry, Faculty of Pharmacy, Kermanshah University of Medical Sciences

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Educational Records

- Pharmacy Doctorate (PharmD), Faculty of Pharmacy, Kermanshah University of Medical Sciences. 2014.
- PhD of Medicinal Chemistry, Faculty of Pharmacy, Shahid Beheshti University of Medical Sciences, 2022.

Research Interests

- Molecular dynamics simulations of molecules
- 3D-QSAR and Pharmacophore Modelling
- Virtual Screening and Lead Discovery
- Analytical Chemistry
- Pharmaceutical Applications of Chemometric Techniques
- Pharmaceutical Applications of Quantitative NMR

Publications

Google Scholar Scopus

- Simultaneous Determination of Multi-Component Dosage Forms Using Benchtop NMR Spectroscopy: Application to Phenytoin-phenobarbital combination Tablet; A Nowroozi, F Kobarfard, M Shahlaei; Iranian Journal of Pharmaceutical Research; 2022
- Shedding light on the structural properties of lipid bilayers using molecular dynamics simulation: A review study; S Moradi, A Nowroozi, M Shahlaei; RSC advances; 2019
- Direct evidences for the groove binding of the Clomifene to double stranded DNA; SZ Moradi, A Nowroozi, K Sadrjavadi, S Moradi, K Mansouri, ...; International journal of biological macromolecules; 2018
- Experimental and computational studies on the binding of diazinon to human serum albumin; F Jafari, S Samadi, A Nowroozi, K Sadrjavadi, S Moradi, ...; Journal of Biomolecular Structure and Dynamics; 2018
- Insights from a combination of theoretical and experimental methods for probing the biomolecular interactions between human serum albumin and clomiphene; SZ Moradi, S Moradi, A Nowroozi, K Sadrjavadi, N Farhadian, H Ehzari, ...; RSC advances; 2018
- Discovery of novel glucagon receptor antagonists using combined pharmacophore modeling and docking; F Jafari, A Nowroozi, M Shahlaei; Iranian Journal of Pharmaceutical Research; 2018
- A coupling of homology modeling with multiple molecular dynamics simulation for identifying representative conformation of GPCR structures: a case study on human bombesin receptor subtype-3; A Nowroozi, M Shahlaei; Journal of Biomolecular Structure and Dynamics; 2017
- A Study on the Binding of Loperamide to Human Serum Albumin Using Combination of Computational and Experimental Methods; K Sadrjavadi, F Rahmati, F Jafari, S Moradi, A Nowroozi, M Shahlaei; Biochem. Anal. Biochem; 2017
- Exploring the binding mechanism of paraquat to DNA by a combination of spectroscopic, cellular uptake, molecular docking and molecular dynamics simulation methods; F Jafari, S Moradi, A Nowroozi, K Sadrjavadi, L Hosseinzadeh, ...; New Journal of Chemistry; 2017
- Molecular insight into the Grandivitin-matrix metalloproteinase 9 interactions; S Gheibi, Y Shokohinia, A Kiani, K Sadrjavadi, A Nowroozi, M Shahlaei; Journal of Photochemistry and Photobiology B: Biology; 2016

- Multi-spectroscopic and molecular modeling investigation of the interactions between prantschimgin and matrix metalloproteinase 9 (MMP9); Y Shokoohinia, S Gheibi, A Kiani, K Sadrjavadi, A Nowroozi, M Shahlaei; Luminescence; 2016

- Exploring binding properties of sertraline with human serum albumin: Combination of spectroscopic and molecular modeling studies; M Shahlaei, B Rahimi, A Nowroozi, MR Ashrafi-Kooshk, K Sadrjavadi, ...; Chemico-biological interactions; 2015

- Combined spectroscopy and molecular modeling studies on the binding of galbanic acid and MMP9; A Kiani, K Almasi, Y Shokoohinia, K Sadrjavadi, A Nowroozi, M Shahlaei; International journal of biological macromolecules; 2015

- Constructing an atomic-resolution model of human P2X7 receptor followed by pharmacophore modeling to identify potential inhibitors; M Ahmadi, A Nowroozi, M Shahlaei; Journal of Molecular Graphics and Modelling; 2015

- Application of radial basis function neural network and DFT quantum mechanical calculations for the prediction of the activity of 2-biarylethylimidazole derivatives as bombesin receptor subtype-3; M Shahlaei, A Nowroozi, R Khodarahmi; Medicinal Chemistry Research; 2014

- A combined DFT and QSAR calculations to study substituted biphenyl imidazoles as bombesin receptor subtype-3 agonists; M Shahlaei, A Nowroozi, R Khodarahmi; Letters in Drug Design & Discovery; 2014

Reviewer of

Journals:

- Iranian Journal of Pharmaceutical Research
- Journal of Reports in Pharmaceutical Sciences

Seminars:

- 1st Iranian Medicinal Chemistry Seminar
- 16th Iranian Pharmaceutical Sciences Congress

Skills

- **Instrumental:**

HPLC, NMR (Bruker® and Nanalysis®), UV-Visible and Fluorescence Spectroscopy

- **Software:**

Gromacs, Autodock, VMD, Biovia Discovery Studio, Schrödinger, SYBYL-X, Modeller, Molecular Operating Environment (MOE), Rosetta macromolecular modeling, MATLAB, UnscrambleX, MestreNova and Bruker's TopSpin