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## Publications

### Journals

- Sohrabi, T., Mirzaei-Behbahani, B., Zadali, R., Pirhaghi, M., Morozova-Roche, L. A., & Meratan, A. A. , "Common Mechanisms Underlying  $\alpha$ -Synuclein-Induced Mitochondrial Dysfunction in Parkinson's Disease.", *Journal of Molecular Biology*, 2023
- Zohoorian-Abotorabi, T., Meratan, A. A., Jafarkhani, S., Muronetz, V., Haertlé, T., & Saboury, A. A. , "Modulation of cytotoxic amyloid fibrillation and mitochondrial damage of  $\alpha$ -synuclein by catechols mediated conformational changes", *Scientific Reports*, 2023
- Mamashli, F., Meratan, A. A., Ghasemi, A., Obeidi, N., Salmani, B., Atarod, D., ... & Saboury, A. A., "Neuroprotective Effect of Propolis Polyphenol-Based Nanosheets in Cellular and Animal Models of Rotenone-Induced Parkinson's Disease", *ACS Chemical Neuroscience*, 2023
- Pirhaghi, M., Najarzadeh, Z., Moosavi-Movahedi, F., Shafizadeh, M., Mamashli, F., Atarod, D., ... & Saboury, A. A., "The anti-platelet drug ticlopidine inhibits FapC fibrillation and biofilm production: Highlighting its antibiotic activity", *Biochimica et Biophysica Acta (BBA)-Proteins and Proteomics*, 2023
- Rafiei, Y., Salmani, B., Mirzaei-Behbahani, B., Taleb, M., Meratan, A. A., Ramezani, M., ... & Rezaei-Ghaleh, N. ,



## "Polyphenols-Based Nanosheets of Propolis Modulate Cytotoxic Amyloid Fibril Assembly of $\alpha$ -Synuclein", ACS Chemical Neuroscience, 2022

- Zadali, R., Hassani, V., Rafiei, Y., Meratan, A. A., Mamashli, F., & Nemat-Gorgani, M., "A study on the interaction of the amyloid fibrils of  $\alpha$ -synuclein and hen egg white lysozyme with biological membranes", *Biochimica et Biophysica Acta (BBA)-Biomembranes*, 2022
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- Ramezani, M., Hesami, M. D., Rafiei, Y., Ghareghozloo, E. R., Meratan, A. A., & Nikfarjam, N., "Efficient amyloid fibrillation inhibition and remodeling of preformed fibrils of bovine insulin by propolis polyphenols-based nanosheets.", *ACS Applied Bio Materials*, 2021
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- Dehghani, Z., Meratan, A. A., Saboury, A. A., & Nemat-Gorgani, M. , " $\alpha$ -Synuclein fibrillation products trigger the release of hexokinase I from mitochondria: Protection by curcumin, and possible role in pathogenesis of Parkinson's disease", *Biochimica et Biophysica Acta (BBA)-Biomembranes*, 2020
- Rostampour Ghareghozloo, E., Mahdavimehr, M., Meratan, A. A., Nikfarjam, N., Ghasemi, A., Katebi, B., & Nemat-Gorgani, M, "Role of surface oxygen-containing functional groups of graphene oxide quantum dots on amyloid fibrillation of two model proteins", *PLOS ONE*, 2020
- Zadali, R., Ghareghozloo, E. R., Ramezani, M., Hassani, V.,



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- Meratan, A. A., Ghaffari, S. M., & Niknam, V., "In vitro organogenesis and antioxidant enzymes activity in Acanthophyllum sordidum.", Biologia plantarum, 2009
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