Dr. Yasser Zare

He received his Ph.D from Department of Polymer Engineering and Color Technology at Amirkabir University of Technology (Tehran, Iran).

He studied the degradation and biosensing behavior of PLA/PEO/CNT nanocomposites in his Ph.D thesis.

He has joined to Department of Interdisciplinary Technologies, Motamed Cancer Institute, ACECR (Tehran, Iran) since 2020.

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He has published many articles in recent years. All articles are available in https://scholar.google.com/citations?user=iDFYuhYAAAAJ&hl=en.

He is an Editorial Board Member in Scientific Reports.

He has focused on polymer nanocomposites and their applications in breast cancer biosensors by experimental and theoretical researches in recent years. The main fields and publications in this area are summarized as:

Electrical conductivity of polymer nanocomposites

Multiphase approach for calculation of tunneling conductivity of graphene-polymer nanocomposites to optimize breast cancer biosensors, Composites Science and Technology 2023.

Development of a theoretical model for estimating the electrical conductivity of a polymeric system reinforced with silver nanowires applicable for the biosensing of breast cancer cells, Journal of Materials Research and Technology 2022.

Effect of contact resistance on the electrical conductivity of polymer graphene nanocomposites to optimize the biosensors detecting breast cancer cells, Scientific Reports 2022.

Effective Conductivity of Carbon-Nanotube-Filled Systems by Interfacial Conductivity to Optimize Breast Cancer Cell Sensors, Nanomaterials 2022.

Biosensors based on polymer nanocomposites and nanoparticles

Electrochemical biosensors based on polymer nanocomposites for detecting breast cancer: Recent progress and future prospects, Advances in Colloid and Interface Science 2022.

Graphene-based electrochemical biosensors for breast cancer detection, Biosensors 2023.

Drug Delivery Systems Containing Polymer Nanocomposites for Breast Cancer Treatment

A Review on Drug Delivery Systems Containing Polymer Nanocomposites for Breast Cancer Treatment, Polymer Reviews, 2023.