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Biopolymer based membrane technology for environmental applications

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Abstract

The visible deterioration of environmental health, as witnessed for a few decades now, has been the subject of debate and research for a long time. In the desperation to remove the pollutants from the available natural resources, countless physical, chemical, and biological methods have been introduced. However, they hold a few drawbacks and tend to alter the nature of the resources. To avoid intentional alteration, physical and biological methods are put-together to develop biopolymer-based membranes that would help the crisis and sort out the preferences. The technique includes trapping industrial carbon dioxide and other gases, drinking water treatment, wastewater treatment, desalination, reclamation, and reuse. Membrane technology is still a hot topic for new openings. Biocompatibility, biodegradability, and cost-effectivity of biopolymers are the greatest assets for developing technology. The efficacy of biopolymer-based membranes is covered in this chapter and their techniques in helping the environment.

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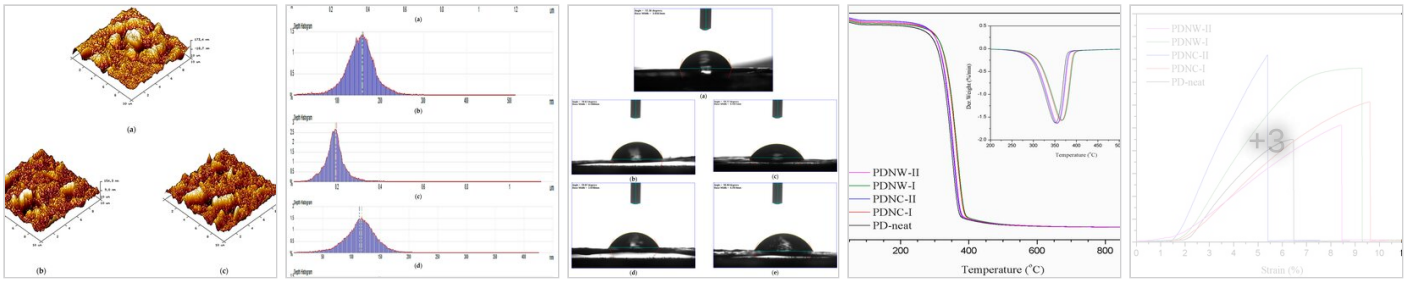

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