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2 - Nanocellulose/polymer nanocomposite membranes for pervaporation application

Jithin Joy¹, Neenu George², Cintil Jose Chirayil¹, Runcy Wilson³

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Abstract

Pervaporation (PV) process is a basic unit membrane operation for the separation of liquid mixtures. It is an alternative for the separation of liquid mixtures which are difficult or impossible to separate by conventional methods. The past decades had witnessed substantial progress and exciting breakthroughs in both the fundamental and the application aspect of PV. Recently polymeric nanocomposite membranes reinforced with cellulose have been widely used for PV applications. Polymeric nanocomposite membranes with enhanced performance such as high selectivity, permeation ratio, and favorable surface morphology have been prepared by incorporating nanocellulose into a polymer matrix. The interest in these processes in research institutions and industrial firms has resulted in an increasing number of publications of relevant work in the past decade. In this chapter, nanocellulose/polymer nanocomposite membranes for PV applications are reviewed and discussed.

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Keywords

Nanocellulose; nanocomposites; membranes; pervaporation; nanocrystals

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4 - Pervaporation performance of polymer/clay nanocomposites

Runcy Wilson¹, Gejo George²

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Abstract

This chapter outlines polymer/clay nanocomposites and its membrane transport characteristics especially pervaporation (PV) property. PV is a membrane-based process that combines permeation and vaporization and is used for separating two or multicomponent mixtures of various organic fluids through dense membranes. PV is a low energy process and it is very easy to operate. Influence of filler morphology and other parameters such as temperature, feed concentration, permeate pressure, etc. are important factors that may affect the effectiveness of membranes for PV process. Industrial applications such as desalination of sea-water and separation of organic liquid mixtures have benefited immensely from the membrane separation techniques.

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Keywords

Pervaporation; nanocomposites; mass transport and membranes

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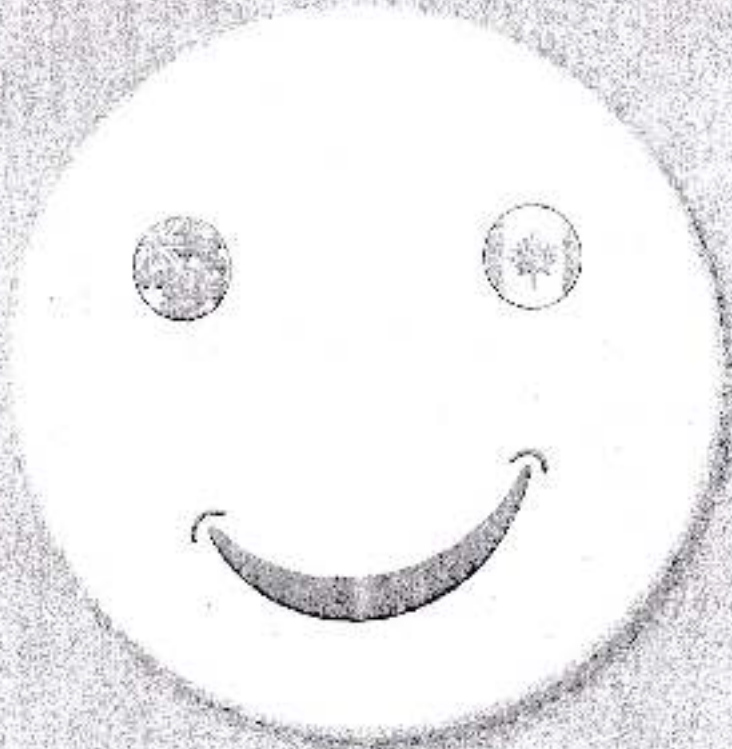
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With the Tongue-in Cheek" – Foraying into the Indigenous Landscapes of Australia through the Select Poems of Les Murray

Dr. Nisha Mathew



The indigenous story of Australia has attracted worldwide attention with critics and researchers exploring its various shades of rural, urban, nationalistic and racial history. A land that is native to innumerable tribes and cultural practices, Australia is a store house of one of the richest indigenous traditions of literature. Poetry, Novel and drama flourished with sprawling population, broad social structures, political complexity and cultural diversity. They narrate stories of liftings, deception, defeat, conquests, colonization and extinction. Withstanding the pressures and rigidity of civilization, the land has emerged to be a place of rich tradition offering a habitat for immigrants while preserving its indigenous culture. Contemporary Australian poetry has been viewed as

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