ACADEMICIA: An International Multidisciplinary Research Journal
ISSN: 2249-7137 Vol. 11, Issue 11, November 2021 SJIF 2021 = 7.492
A peer reviewed journal

CONDUCTING POLYMERS AND IT'S APPLICATIONS: A REVIEW

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DOI: 10.5958/2249-7137.2021.02485.X

ABSTRACT

Because of their economic significance, stability, and electrical conductivity, as well as their valuable mechanical, optical, and electronic characteristics, conjugated polymers (CPs) have gotten a lot of attention. Conducting polymers are utilized in electrostatic materials, conductive adhesives, electromagnetic shielding against electronic radiation (EMI), artificial nerves, airplane constructions, diodes, and transistors, to name a few applications. This review discusses some of the potential uses of nanofibers and nanotubes in sensors, nanodiodes, field effect transistors, field emission and electro - optic displays, coupled capacitors and power storage, actuators, therapeutic agents, neural interfaces, and protein purification, as well as their future prospects.

KEYWORDS: *Biomedical, Conducting Polymers, EMI Shielding, Nano Devices, Sensors.*

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