

Heterocyclic metal complexes of thiophene based compound as electroactive material in membrane sensor development

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Heterocyclic compound possess a cyclic structure with two or more different atoms in the ring. Furans, thiophenes and related azole analogs constitute an important class of heterocyclic compounds that are readily available, stable and easily functionalized. Among the various types of heterocyclic molecules studied, sulphur (S) contained compounds such as thiophenes, thiozoles and their derivatives represent groups of important chromophores with desirable electrochemical properties. Therefore the metal complexes of these thiophene based compounds can be used as a good electroactive material for the membrane preparation with PVC. This membrane may be further applied to develop potential to form sensing devices with other additives in required proportions. Such sensing devices have wide application in the measurement of metal ion concentration in water samples and also as an indicator electrodes.

Biography

Chandra Mohan has completed his PhD at the age of 30 years from Guru Gobind Singh Indraprastha University, Delhi and M.Phil degree from University of Delhi Chemistry Department. He has more than 8 years of teaching experience and about 8 years of research experience. He has published more than 25 research papers in reputed journals and has presented 10 research papers in various conferences and workshops held in India. He is an awardee of a national fellowship from University Grant Commisiion Delhi for his Ph.D. degree. He was also invited as keynote speakers in various conferences; Catalysis Virtual 2020, 2nd International European conference in Turkey 2020, 3th World Congress on Applied Science UAE 2019.