

Simplistic Approach to Formulate an Ionophore based Membrane and its Study for Nitrite Ion Sensing

Chandrashekhar M Ghorpade, Govind G Umarji, Rohit A Hanamsagar, Sudhir S Arbuj, Manish D Shinde and Sunit B Rane*

*Additive Manufacturing & Advanced Materials Electronics & Energy (AM2E2) Division,
Centre for Materials for Electronics Technology, off Pashan Road, Panchawati, Pune-411008.*

Corresponding author Email: sunit@cmet.gov.in

Supporting information

S1. Membrane thickness measurement data

Table T1- Membrane (M1) thickness measurement

Sr.No	Membrane code	Several thickness measurement (mm)	Average thickness (mm)
1	M1	1] 0.230 2] 0.235 3] 0.240	0.235

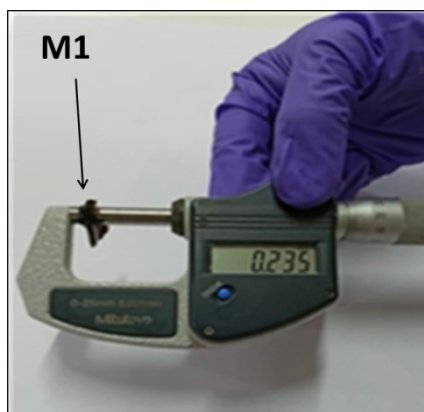


Fig S1. Membrane thickness measurement by micrometer screw gauge

S2. FTIR Spectra

The individual FTIR spectra for CI, 2-NPOE, HTAB and PVC

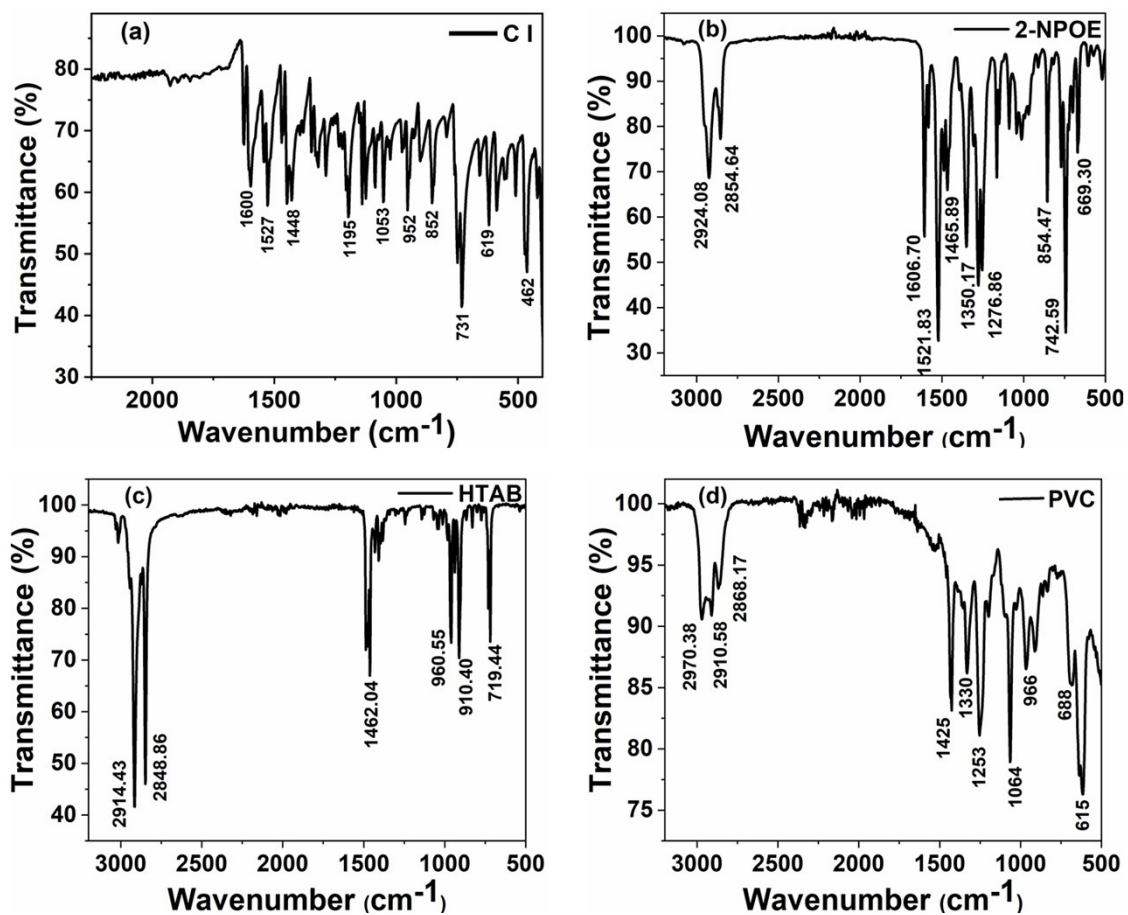


Fig.S2. FTIR spectrum (3250-500 cm^{-1}) for **(a)** CI, **(b)** 2-NPOE, **(c)** HTAB and **(d)** High molecular weight PVC.

S3. Optical Microscopy

The individual optical images of the CI, PVC and HTAB

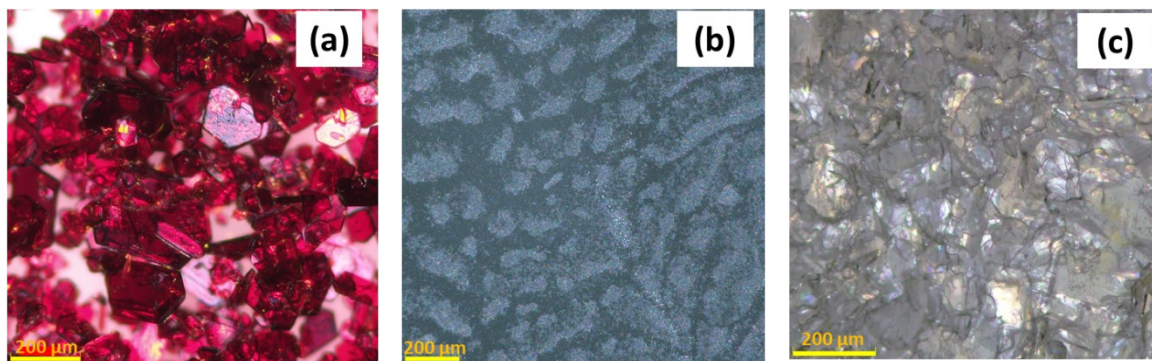


Fig.S3. Optical microscope Images of **(a)** CI, **(b)** High molecular weight PVC, and **(c)** HTAB.