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| **ABSTRACT (Times New Roman 12-Bold)**In this study, the relationship between transport performance of Cr(VI) through PVDF-co-HFP based ionic polymer inclusion membranes (IPIM), alkyl chain length of symmetric imidazolium bromide based room temperature ionic liquids (RTILs) and morphological changes of these IPIMs has been comprehensively described. Butyl, hexyl, octyl, and decyl substituted RTILs containing IPIMs were prepared in different compositions and their effectiveness on Cr(VI) transport was experimentally optimised [1, 2]. In optimum conditions, the initial mass transfer coefficient (J0) value of Cr(VI) was found as 5.0·10-6 mol·s-1·m-2, and also, we found that the optimised process is significantly selective for chromium in existence the other heavy metal ions. Morphological and structural characterizations of IPIMs have been performed before and after Cr(VI) transport to illuminate the morphological and the structural changes [3-5]. Also, the additional plasticizing effect of RTILs as an unusual morphological phenomenon have come forward. In today’s industrialised world, the demand for environmentally friendly processes for removal or recycle of toxic substances by simpler and cheaper ways have been increasing day by day. As a result, our developed and optimised membrane-based process seems to be overcome some Cr(VI) dependent environmental and industrial difficulties [6, 7]. **(Times New Roman 10)****References:** [1] Surname, N., Surname, N., Surname, N., & Surname, N. **(All names should be written)** (Year). Title of the article. *Title of the Journal*, Volume(issues if used), Pages. **(Journal-Title of the Journal should be written in italics-Times New Roman 10)**[2] Surname, N., Surname, N., Surname, N., & Surname, N. (Year). *Book Title*(edition if used). City of publication, Country/State: Publisher. **(Book-Book Title should be written in italics)**[3] Surname, N., Surname, N., & Surname, N. (Year). Title of the book chapter. In N. Surname & N. Surname (Eds), *Book Title* (Pages). City of publication, Country/State: Publisher. **(Book chapter-Book Title should be written in italics)**[4] Surname N., (Date), *Title of Document* [Format description] (ppt, doc, pdf, etc.), Retrieved date (Month Day, Year) from website link. **(Website- If there is no date “n.d” should be written and Title of document should be written in italics)** [5] Surname N., *Title of thesis/dissertation*, PhD or MSc Thesis, Title of University, Title of Institue, Year, Total page number, City. **(Thesis and dissertation- Title of Thesis/Dissertation should be written in italics)** [6] Surname N., Title of Full-text Conference Paper, Title of Conference, City, Country, Year, Page. **(Conference-Abstratcs in conferences are not accepted as a valid reference except full text)**[7] Surname N., Surname N., Surname N., Surname N. & Surname N. (2008). Title of Full-text Conference Paper, Title of Conference, Location, Volume, Page. **(Online Conference-Abstratcs in conferences are not accepted as a valid reference except full text)****The committee recommended that authors follow APA 6 writing guidelines if the above reference examples are inadequate.** |

# Keywords: Keyword1, Keyword2, Keyword3, Keyword4, Keyword5(max. 5) (Times New Roman 10)

1. \* Corresponding author. *e-mail address: .........@.........* [↑](#footnote-ref-1)