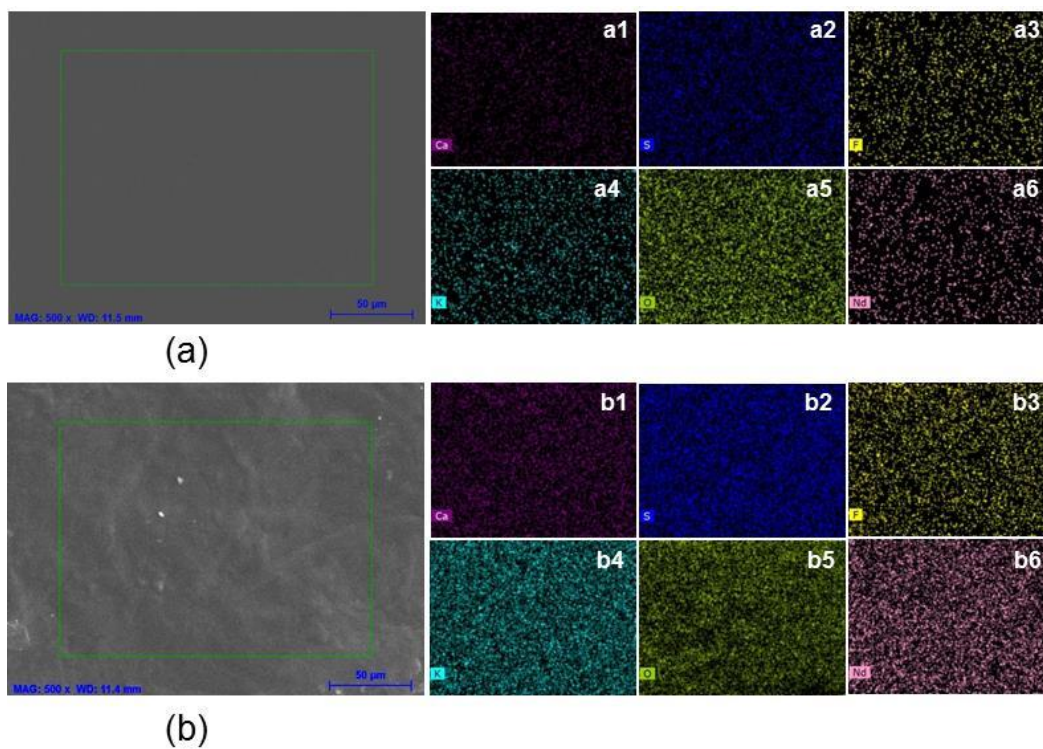
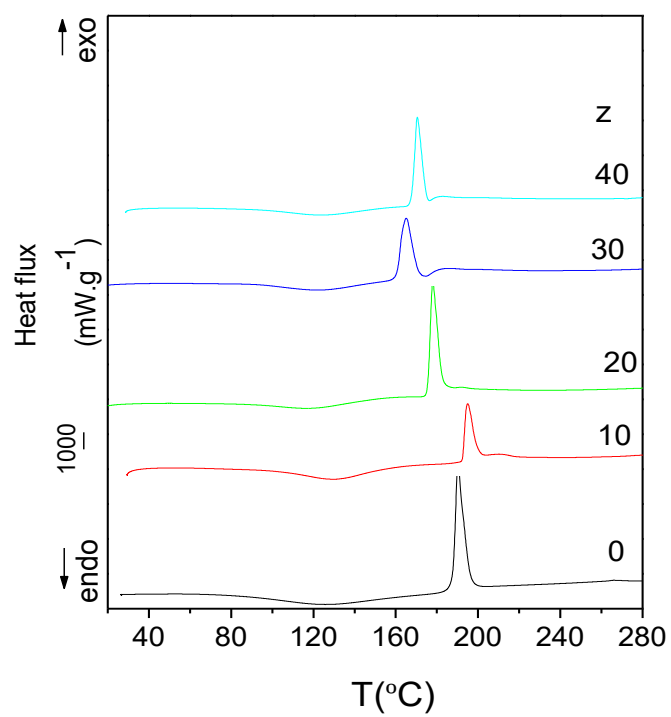


# Luminescent $\kappa$ -Carrageenan-based electrolytes containing neodymium triflate

S. C. Nunes <sup>1,2,\*</sup>, S. M. Saraiva <sup>1</sup>, R. F. P. Pereira <sup>3</sup>, M. M. Silva <sup>3</sup>, L. D. Carlos <sup>4</sup>, P. Almeida <sup>2,5</sup>,  
M. C. Gonçalves <sup>1,6</sup>, R. A. S. Ferreira <sup>4</sup> and V. de Zea Bermudez <sup>1,6,\*</sup>



**Figure S1:** SEM images of selected  $\text{CG}_{50}\text{Nd}_z$  membranes with  $z = 20$  and  $40\%$  (b). EDS mapping images for  $z = 20\%$  (a1-a6) and  $z = 40\%$  (b1-b6) for Ca (calcium, purple), S (sulphur, blue), F (fluor, yellow), K (potassium, cyanide), O (oxygen, green), and Nd (neodymium, pink) atoms.



**Figure S2:** DSC curves of selected CG<sub>50</sub>Nd<sub>z</sub> membranes