

## Supplementary Information

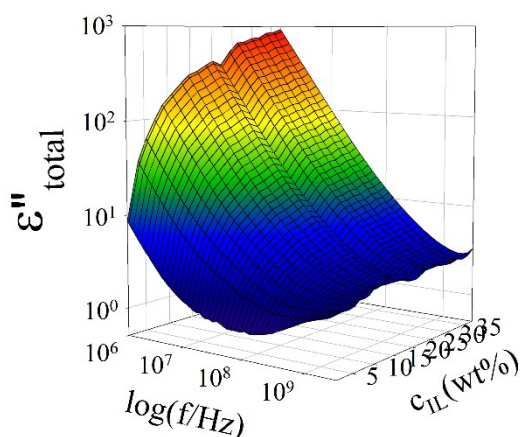
Dielectric analysis of percolation, interface polarization, and phase behavior of 1-butyl-3-methylimidazolium tetrafluoroborate/TX-100/triethylamine microemulsions

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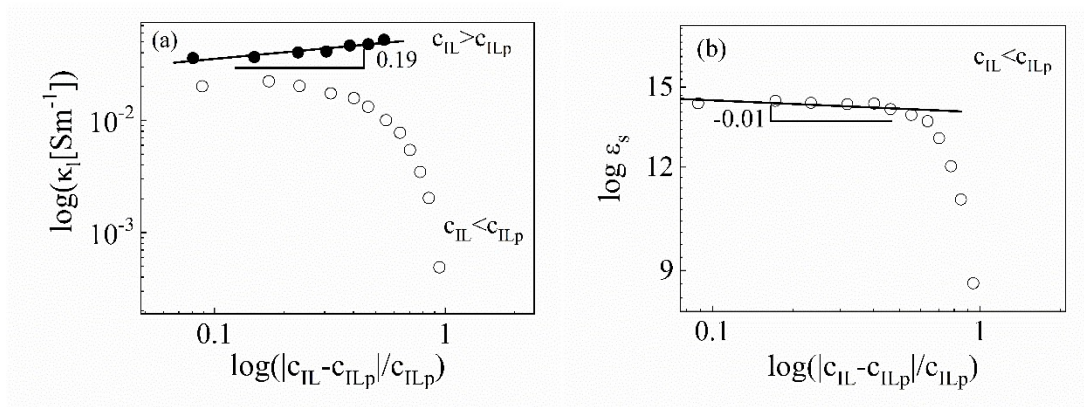
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**Fig. S1.** Frequency dependences of the directly measured (total) dielectric loss for every sample.



**Fig. S2.** (a) The fitting of data above percolation threshold gives  $\mu=0.19$ . (b) The fitting of data (10.87-0.22.21 wt%) gives  $s=0.01$ . Neither can be explained neither by the static nor by dynamic percolation model.