ADVANCED MATERIALS INTERFACES

Supporting Information

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Size-Based Cationic Molecular Sieving through Solid-State Nanochannels

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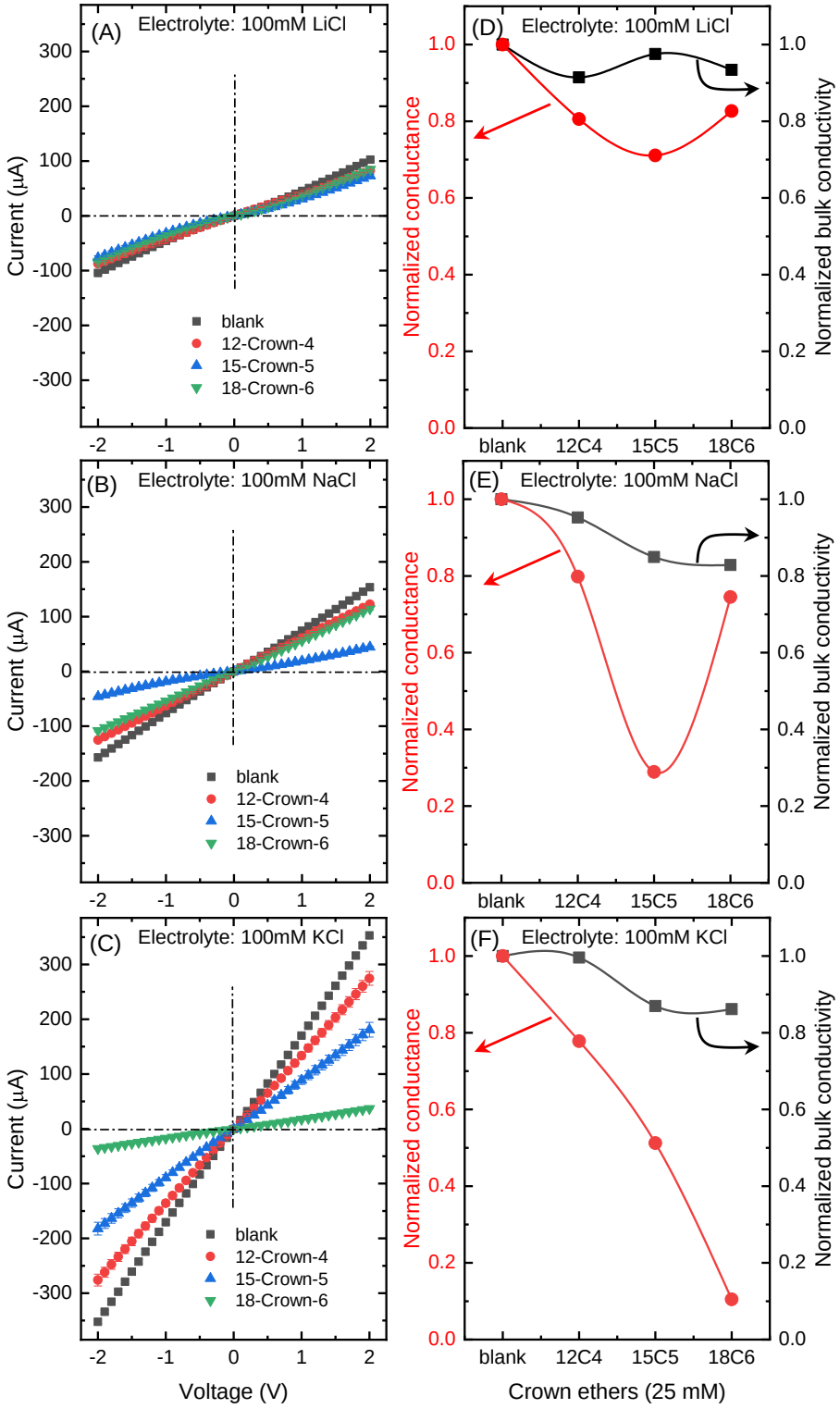

Figure S1. Changes in the *I–V* curves obtained with the nanoporous membrane after the addition of the different crown ethers at concentration 25 mM dissolved in 100 mM solutions of LiCl (A), NaCl (B) and KCl (C). Changes in the normalized dimensionless membrane conductance obtained from the corresponding *I–V* curves at 2 V and normalized bulk conductivity of the corresponding electrolyte solution (D-F) . The blank case makes reference to the absence of crowns in the electrolyte solution.

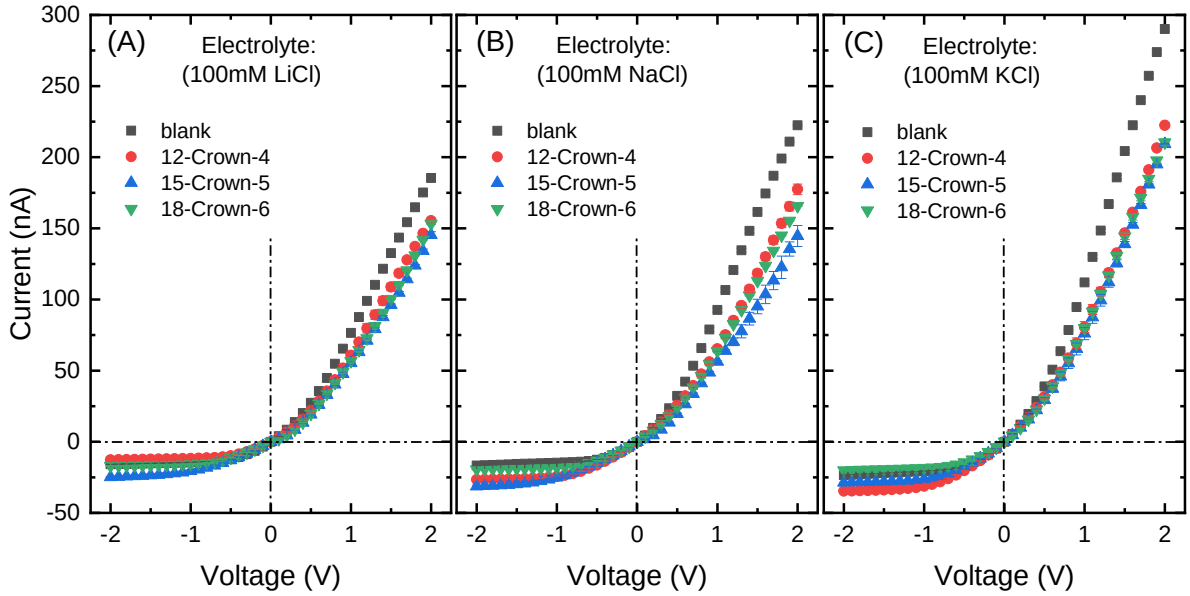

Figure S2. Changes in the *I–V* curves obtained with the single conical nanopore membrane after the addition of the different crown ethers at concentration 25 mM dissolved in 100 mM solutions of LiCl (A), NaCl (B) and KCl (C).

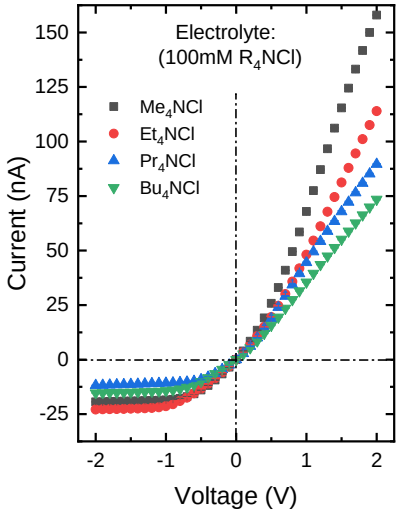

Figure S3. Changes in the *I–V* curves obtained with the single conical nanopore membrane in 100 mM solutions of different tetra-alkylammonium chloride solution.