Electronic Supplementary Information (ESI)

Importance of polyelectrolyte modification for rectifying the ionic current in conically shaped nanochannels

Shiojenn Tseng,¹ Hou-Hsueh Wu,² Chih-Yuan Lin,² Jyh-Ping Hsu²*  
¹Department of Mathematics, Tamkang University, New Taipei City, Taiwan 25137  
²Department of Chemical Engineering, National Taiwan University, Taipei, Taiwan 10617  
Tel: 886-2-23637448, Fax: 886-2-23623040, E-mail: jphsu@ntu.edu.tw

Supporting Information

Contours of the dimensionless counterions (cations) concentration $c_1^*$ near the base region of a nanopore

Fig. S1 Contours of the dimensionless counterions (cations) concentration ($c_1^*$) near the nanopore base region for type I nanopore, (a), (c), (e), and type II nanopore, (b), (d), (f), at various values of bulk ionic concentration and $V_{app}=+1$ V. Color bars: level of dimensionless concentration; the number associated with ▲ (▼) denotes the maximum (minimum) value. Contours of the dimensionless counterion (cation) concentration ($c_1^*$) for the entire nanopore are placed next to that of the base region.