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Fig. S1 NMR ¹H, ¹³C and MALDI-TOF spectra of 11,23-Di-chloromethyl-25,27-dihydroxy-26,28-dibutoxycalix[4]arene (**4**)



Fig. S2 NMR ¹H, ¹³C and MALDI-TOF spectra of 11,23-bis[(3-methyl-1H-imidazolium-1-yl)methyl]-25,27-dihydroxy-26,28-dibutoxycalix[4]arene dichloride (**5**)



Fig. S3 NMR ¹H, ¹³C and MALDI-TOF spectra of 11,23-bis[(3-isopropyl-1H-imidazolium-1-yl)methyl]-25,27-dihydroxy-26,28-dibutoxycalix[4]arene dichloride (**6**)



Fig. S4 NMR ¹H, ¹³C and MALDI-TOF spectra of 11,23-bis[(3-(2,6-diisopropylphenyl)-1H-imidazolium-1-yl)methyl]-25,27-dihydroxy-26,28-dibutoxycalix[4]arene dichloride (**7**)



Fig. S5 NMR ¹H, ¹³C and MALDI-TOF spectra of 11,23-bis[(3-(mesityl)-1H-imidazolium-1-yl)methyl]-25,27-dihydroxy-26,28-dibutoxycalix[4]arene dichloride (**8**)



Fig. S6 NMR ¹H, ¹³C and MALDI-TOF spectra of 11,23-bis[(3-methyl-1H-benzimidazolium-1-yl)methyl]-25,27-dihydroxy-26,28-dibutoxycalix[4]arene dichloride (**9**)









Fig. S7. DLS size graph of aggregates formed by **5**(a), **6**(b), **7**(c), **8**(d), **9**(e), C(**5**-**9**) = 97, 33, 60, 80, 180 μM.







Fig. S8. DLS size graph of aggregates formed by DPPC (a) or DPPC mixed with 5, C(DPPC) = 1 mM, C(5) = 0.043(b), 0.65(c), 0.98(d) mM.



Scheme S1. Known synthetic pathway for NHC-precursors made by Schatz group.



Fig. S9. T_m plots of DPPC and DPPC-5 vesicles, C(DPPC) = 1 mM; $C(5) = 43, 65 \text{ and } 98 \mu \text{M}$ for DPPC+ 4% (5), DPPC+ 7% (5) and DPPC+ 10% (5), respectively; H₂O, 26-50 °C.