Supplementary Materials

1,1’-[[3,5-Bis((dodecyloxycarbonyl)-4-phenyl-1,4-dihydropyridine-2,6-diyl]bis(methylene)]bis[4-(anthracen-9-yl)pyridin-1-ium] Dibromide

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Figure S1. $^1$H NMR spectrum of 1,1’-[[3,5-bis((dodecyloxycarbonyl)-4-phenyl-1,4-dihydropyridine-2,6-diyl]bis(methylene)]bis[4-(anthracen-9-yl)pyridin-1-ium] dibromide (4)
Figure S2. $^{13}$C NMR spectrum of 1,1'-$\{[3,5$-bis((dodecyloxy)carbonyl)-4-phenyl-1,4-dihydropyridine-2,6-diyl]bis(methylene)}$bis[4-(anthracen-9-yl)pyridin-1-ium] dibromide (4)

Figure S3. HRMS data of 1,1'-$\{[3,5$-bis((dodecyloxy)carbonyl)-4-phenyl-1,4-dihydropyridine-2,6-diyl]bis(methylene)}$bis[4-(anthracen-9-yl)pyridin-1-ium] dibromide (4)
**Figure S4.** 1,4-DHP amphiphiles 4 (blue) and 5 (orange) surface pressure – mean molecular area isotherms at 23±1°C.

**Figure S5.** Compressibility modulus-surface pressure dependences obtained for the 1,4-DHP amphiphile 5 monolayer.
Figure S6. Compressibility modulus-surface pressure dependences obtained for the 1,4-DHP amphiphile 4 monolayer.