

SUPPORTING INFORMATION

New poly-imidazolium-triazole particles by CuAAC cross-linking of calix[4]arene bis-azide/alkyne amphiphiles - a perspective support for Pd in Mizoroki–Heck reaction

Vladimir Burilov,^{†,a} Ramilya Garipova,^a Diana Mironova,^a Elza Sultanova,^a Ilshat Bogdanov,^a Eugeny Ocherednyuk,^a Vladimir Evtugyn,^c Yuri Osin,^c Ildar Rizvanov,^b Svetlana Solovieva^b and Igor Antipin^a

a Kazan Federal University, 18 Kremlevskaya st. Kazan, 420008, Russian Federation.

b Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center of RAS, 8 Arbuzov str., Kazan, 420088, Russian Federation.

c Interdisciplinary Centre for Analytical Microscopy Kazan Federal University, 18 Kremlevskaya st. Kazan, 420008, Russian Federation.

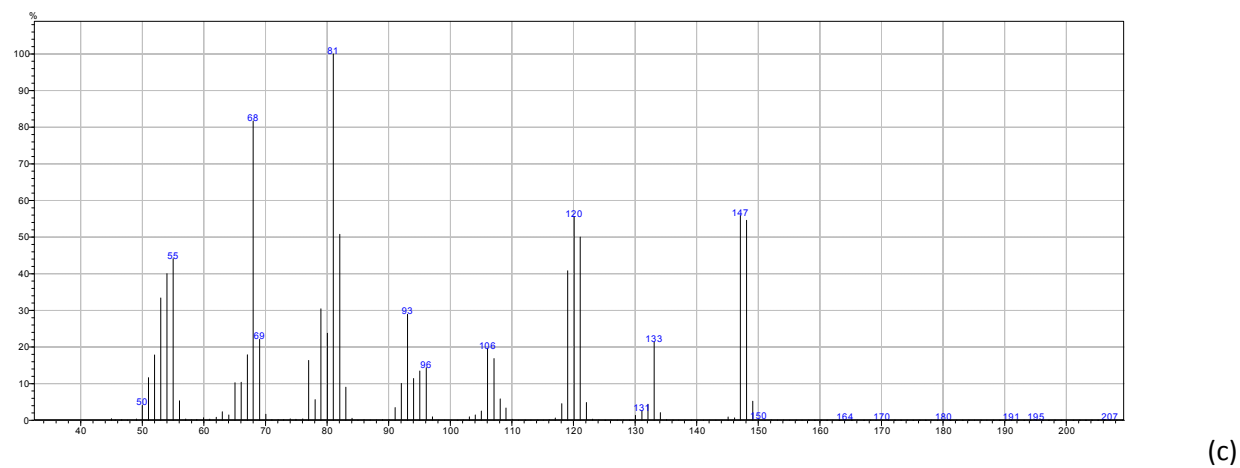
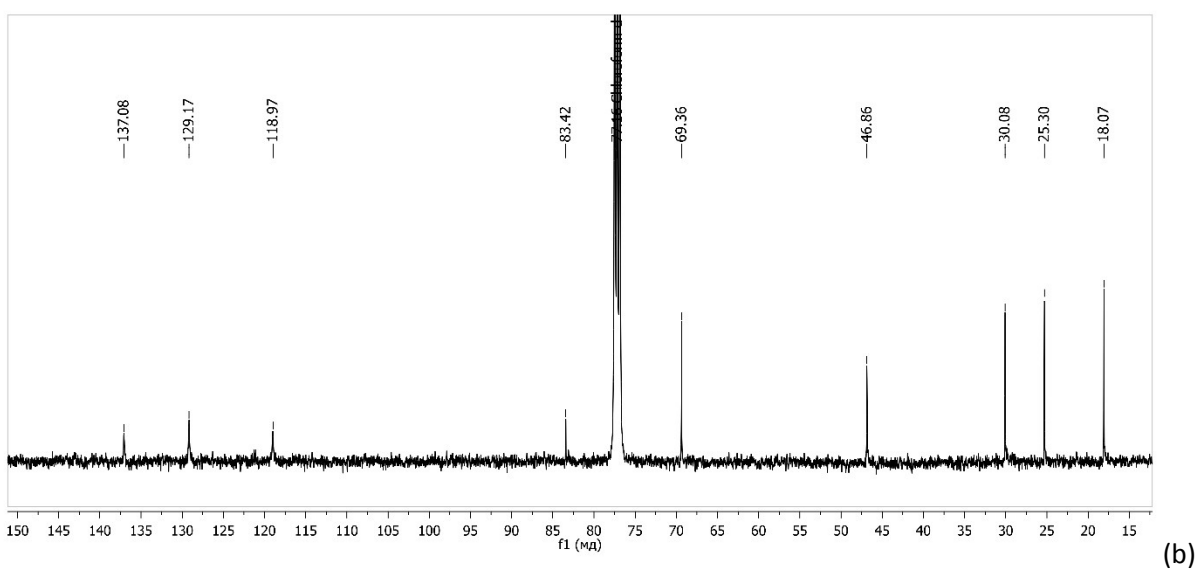
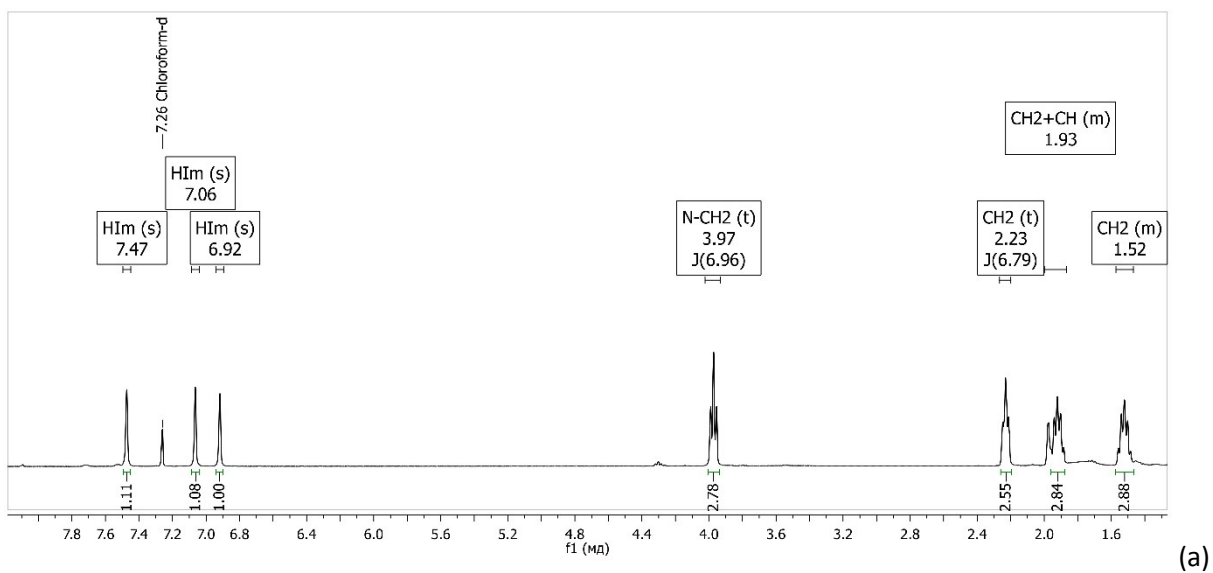


Figure S1. NMR ^1H (a), ^{13}C (b) and EI (c) spectra of *1-(hex-5-yn-1-yl)-1H-imidazole*.

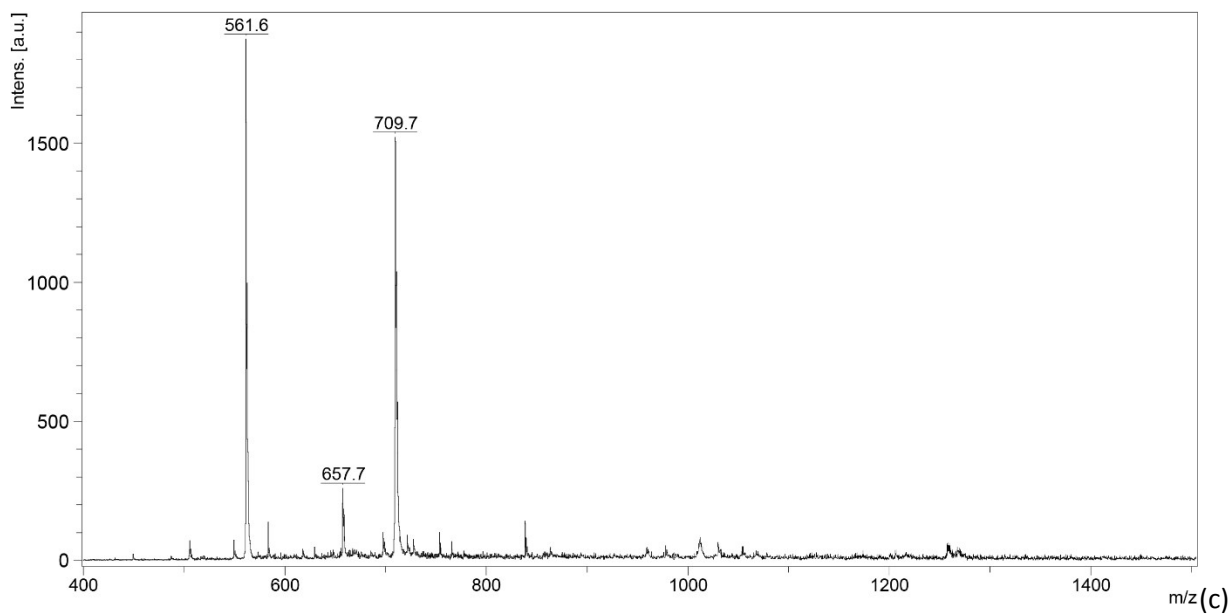
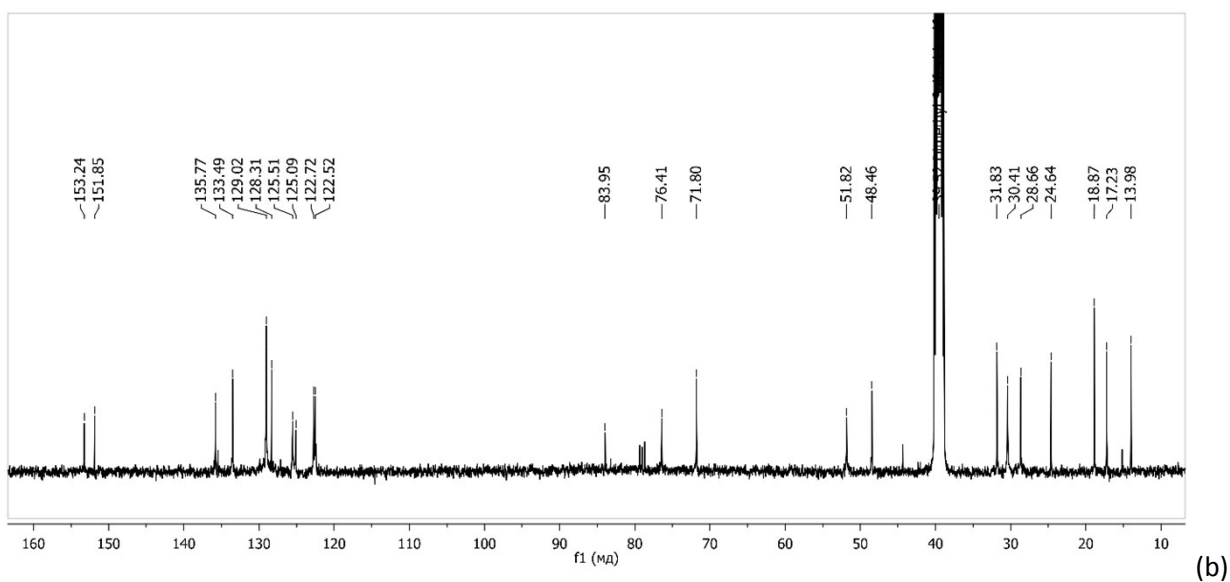
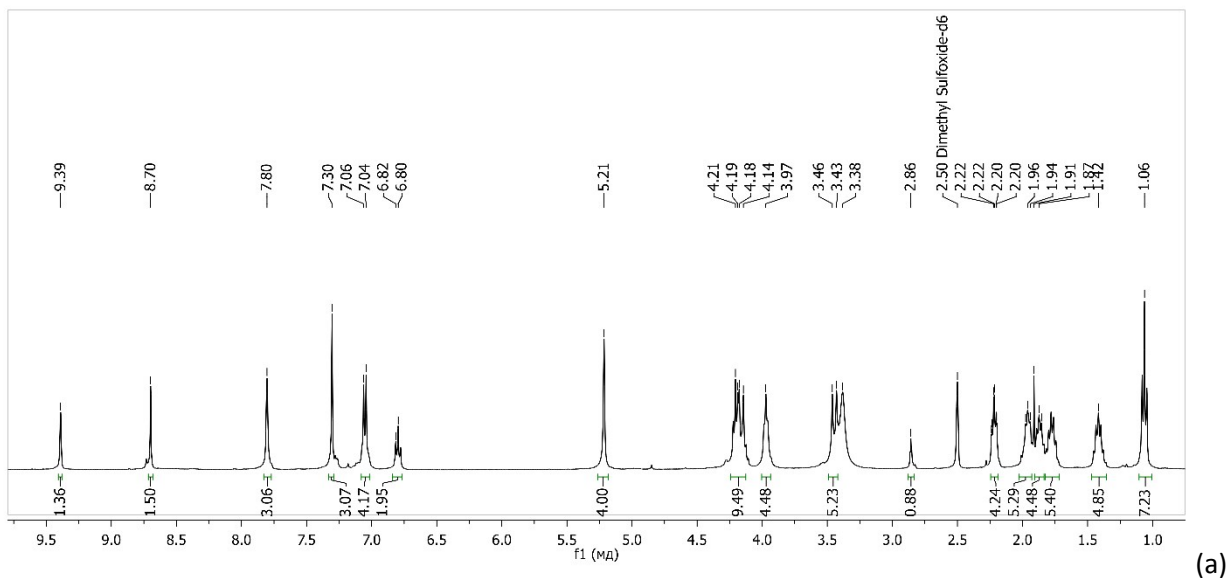
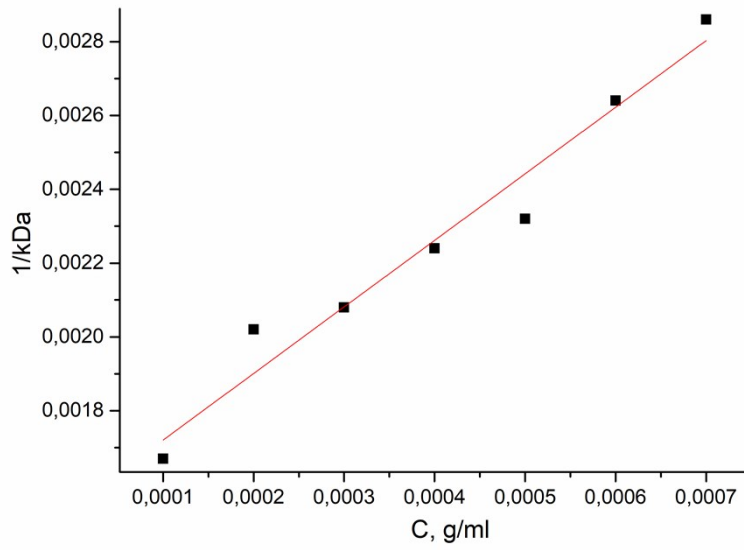
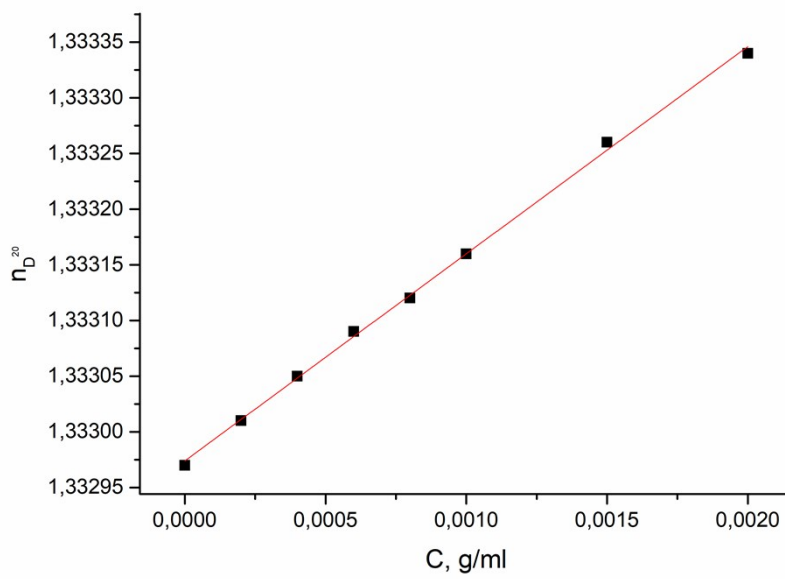


Figure S2. NMR ^1H (a), ^{13}C (b) and MALDI-TOF (c) spectra of *11,23-Bis[3(1-(hex-5-yn-1-yl)-1H-imidazolium]-25,27-dihydroxy-26,28-dibutoxycalix[4]arene dichloride 4*.



(a)



(b)

Figure S3. Debye plot for polymer in H₂O, $C = 0.1 \div 0.7$ mg/ml (a) and refractive index increments, dn/dc , at 20°C, $C = 0.1 \div 2$ mg/ml (b).

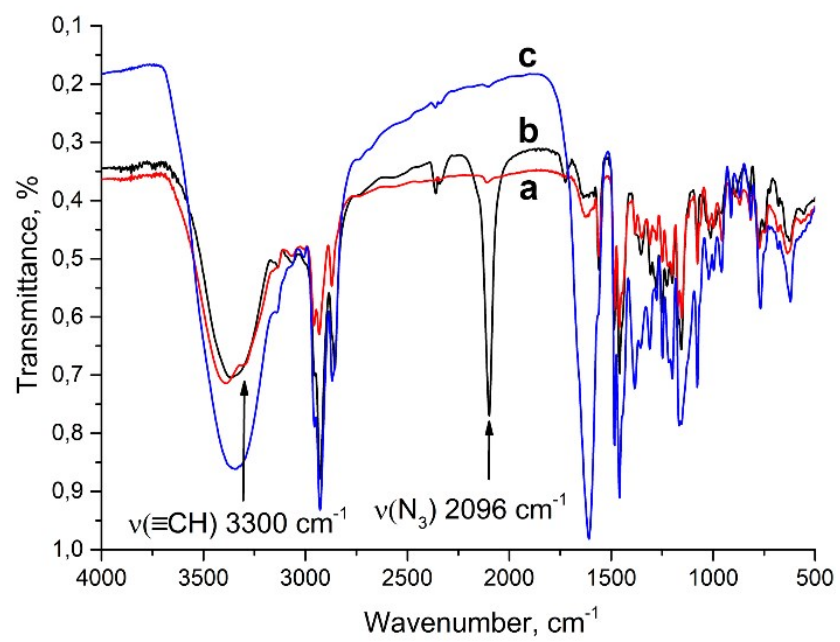


Figure S4. IR spectra (KBr pellets) of **4**(a), **5**(b) and mixture of **4** and **5** after cross-linkage.