Supplementary Material (ESI) for Journal of Materials Chemistry

Electronic Supporting Information for

Sol-gel selection of hybrid G-qudruplex architectures from dynamic supramolecular guanosine libraries

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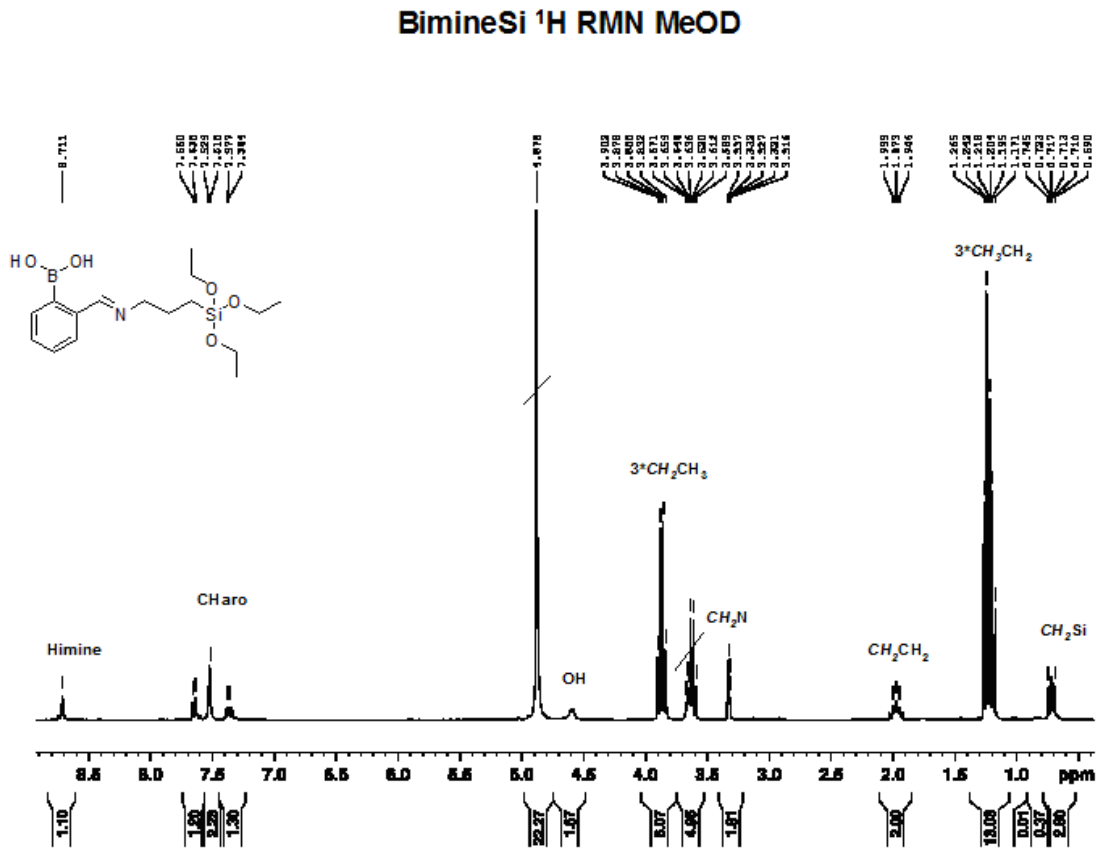

Figure 1S: ^{1}H NMR spectra of precursor **3** in *d4*-MeOD at 25°C

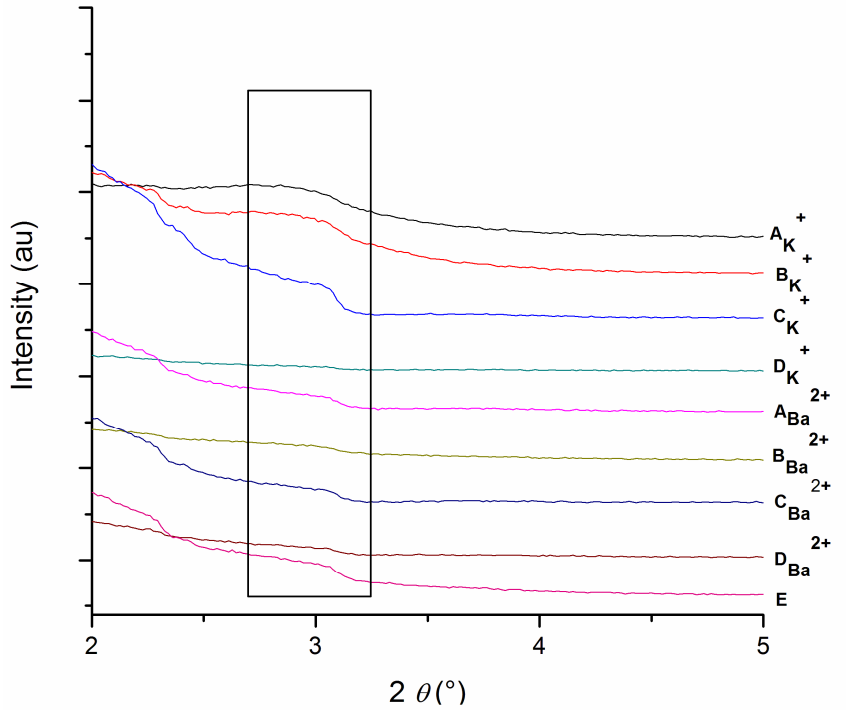

Figure 2S: Low angles XPRD patterns of $\mathbf{A_K}^{+}$-$\mathbf{D_K}^{+}$ or $\mathbf{A_{Ba}}^{2+}$-$\mathbf{D_{Ba}}^{2+}$ and reference **E** hybrid materials

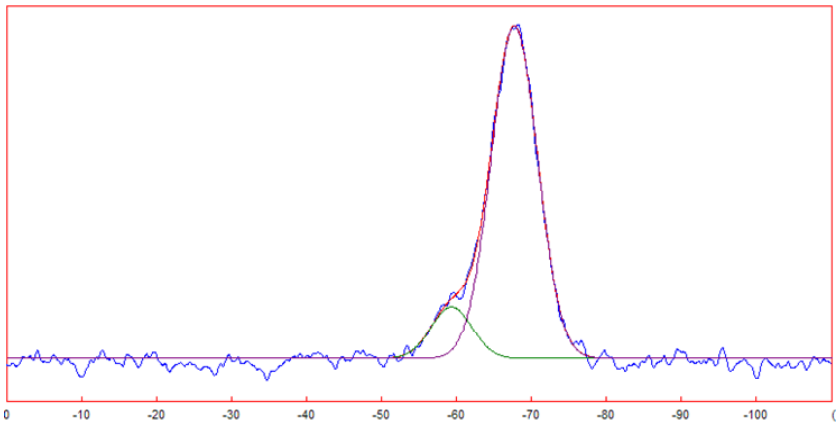

Figure 3S : ^{29}Si MAS NMR spectra of the solid hybrid material $\mathbf{A_{Ba}^{2+}}$.

Table 1S : ^{29}Si MAS NMR spectra results: Tc- the condensation number $\mathbf{T_c = (T^1+2T^2+3T^3)/(T^1+T^2+T^3)}$, and the Dc- condensation degree $\mathbf{\%D_c = T_c/3 * 100}$

	Eq. Sel	H_2OmilliQ	T_c	Dc (%)
$\mathbf{A_K^+}$	-	+	2.80	93
$\mathbf{C_K^+}$	0.25 KTf	-	2.81	97
$\mathbf{A_{Ba}^{2+}}$	0.25 KTf	+	2.88	96
$\mathbf{C_{Ba}^{2+}}$	1 BaTf	+	2.90	97

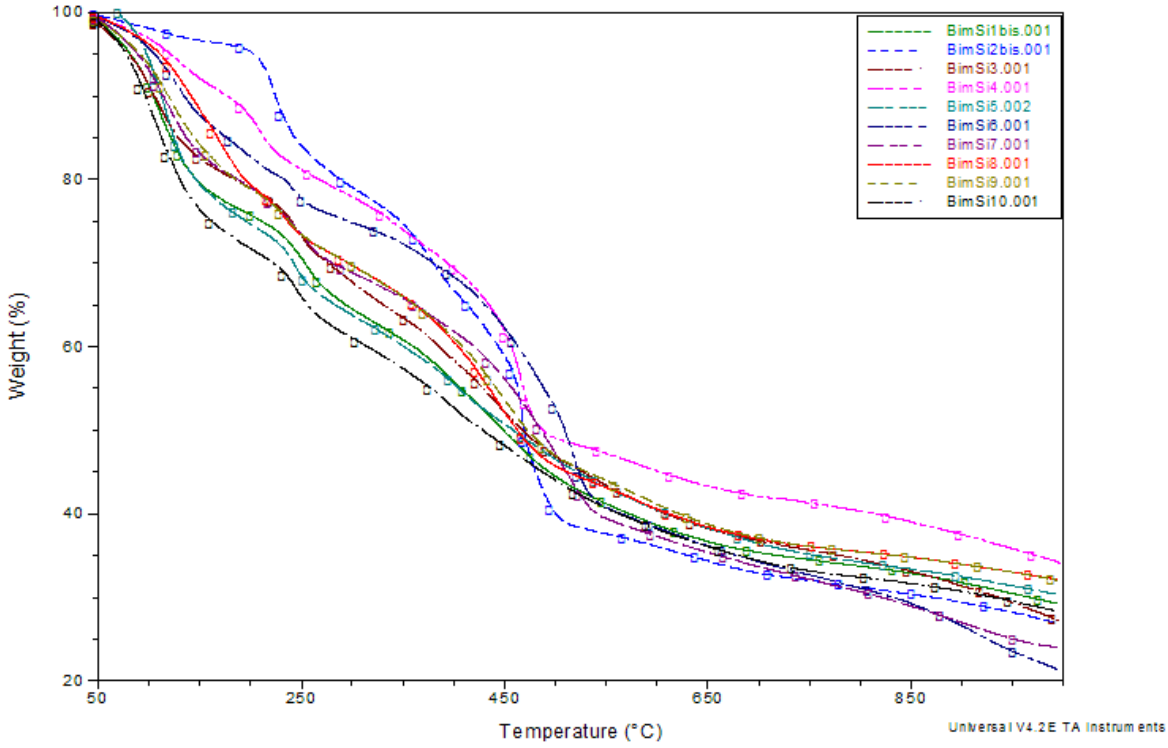

Figure 4S. a) TGA traces of $\mathbf{A_K}^{+}$-$\mathbf{D_K}^{+}$ or $\mathbf{A_{Ba}}^{2+}$-$\mathbf{D_{Ba}}^{2+}$ and reference **E** hybrid materials as measured at 10°C/min under nitrogen.