Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting Information for

Facile Preparation of Supramolecular Ionogels Exhibiting High Temperature Durability as Solid Electrolytes

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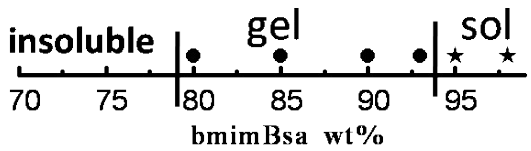

Fig. S1 Phase diagram of Fe-H_3BTC-bmimBsa mixture.

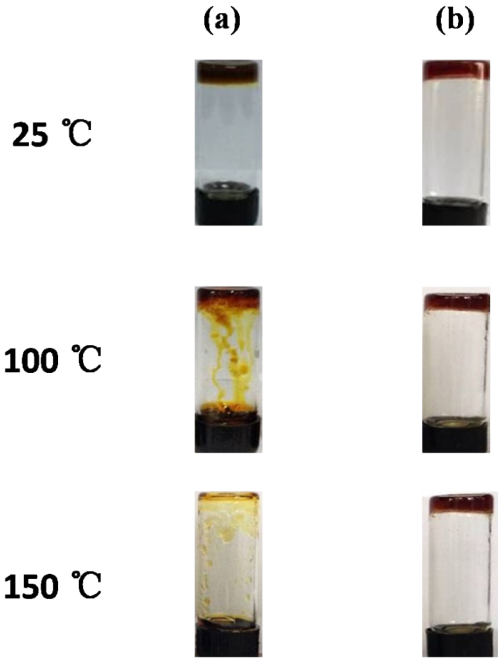

Fig. S2 Images of supramolecular ionogels (a) Fe-H_3BTC-90%bmimCl and (b) Fe-H_3BTC-90%bmimBsa at different temperatures.

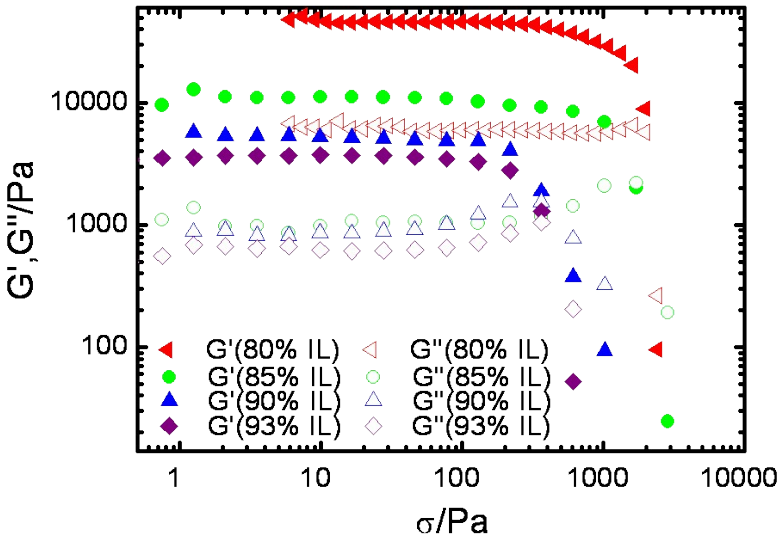

Fig. S3 The G' and G'' of ionogels Fe-H_3BTC-bmimBsa as a function of the applied stress at a constant frequency of 1 Hz at 25.0℃ with the ionic liquid content varying from 80 wt% to 93 wt%.

Ionic liquid content	Temperature (℃)	Conductivity (mS/ cm)	Ionic liquid content	Temperature (℃)	Conductivity (mS/ cm)
80%	20	0.0384±0.0004	85%	20	0.1167±0.0013
	40	0.1148±0.0009		40	0.3455±0.0038
	60	0.3039±0.0045		60	0.6723±0.0115
	80	0.6561±0.0050		80	1.0108±0.0093
	100	1.3029±0.0039		100	1.2440±0.0077
	120	2.0867±0.0021		120	1.3648±0.0075
	140	2.8034±0.0015			
90%	20	0.1077±0.0018	93%	20	0.1253±0.0022
	40	0.2963±0.0057		40	0.3665±0.0071
	60	0.6122±0.0069		60	0.7073±0.0062
	80	0.9497±0.0082		80	1.0399±0.0004
	100	1.2375±0.0041		100	1.2213±0.0284
	120	1.4427±0.0195		120	1.3931±0.0030
	140	1.5276±0.0178			

Table. S1 The ionic conductivities of ionogel Fe-H_3BTC-bmimBsa with different ionic liquid content.