

List of Supporting Information

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Fig. S3 Scanning wavelength for effect of time on RB (a) MNP, (b) MNP-PANI and (c) MNP-PANI-DICAT.

Table S1 Main IR frequency with assignments and ^1H NMR chemical shift (δ) of dicationic ionic liquid.

Table S2 Weight loss profiles for TGA analysis of MNPs, MNP-PANI and MNP-PANI-DICAT.

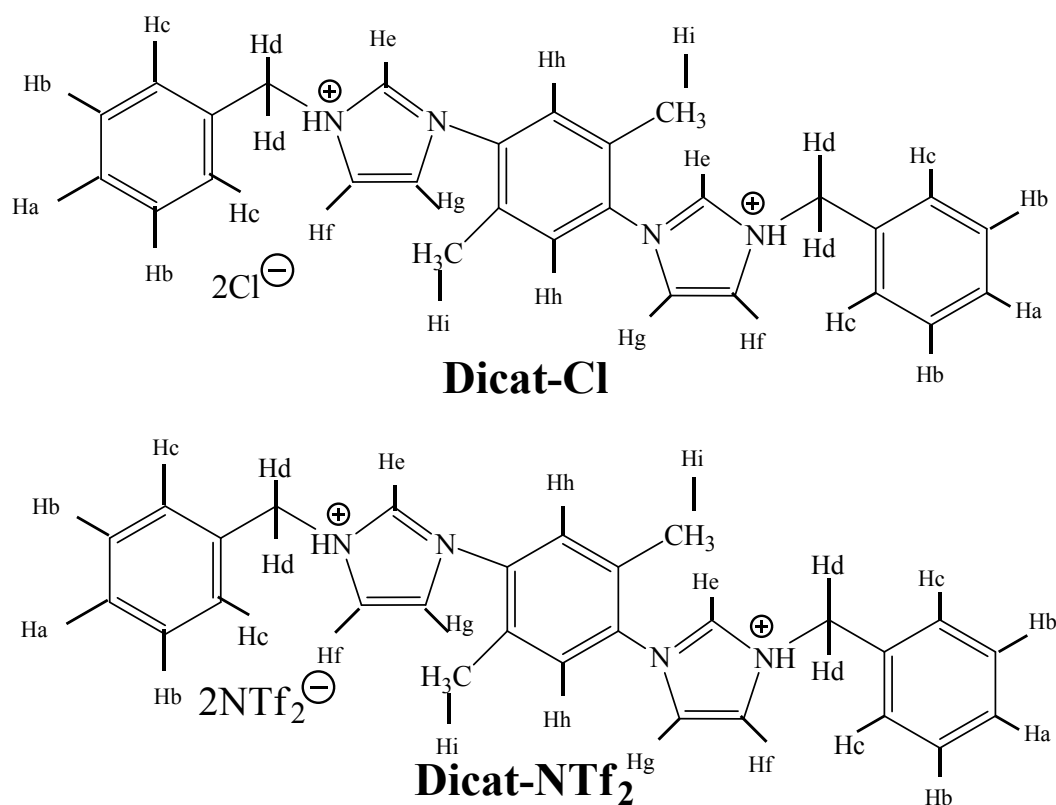


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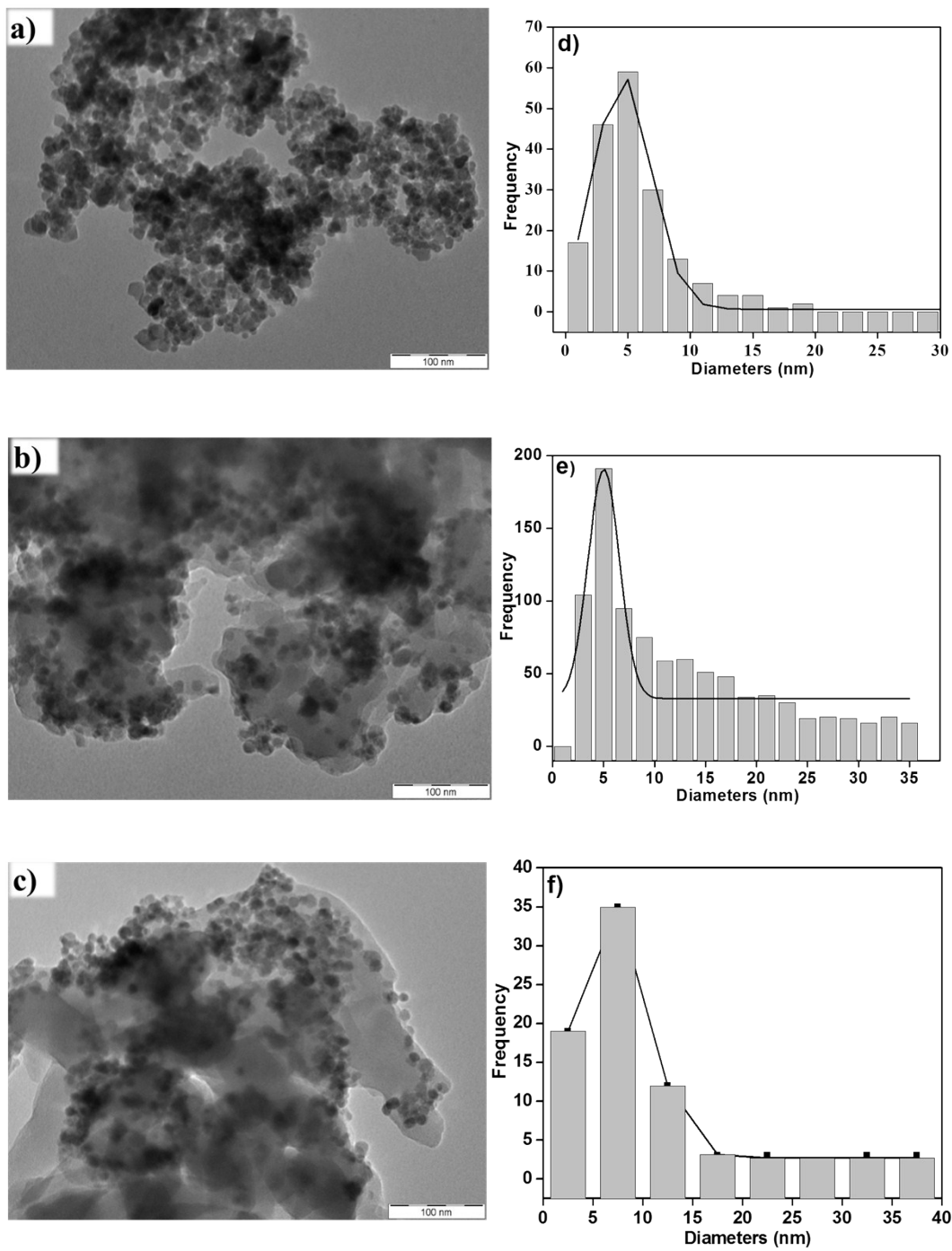


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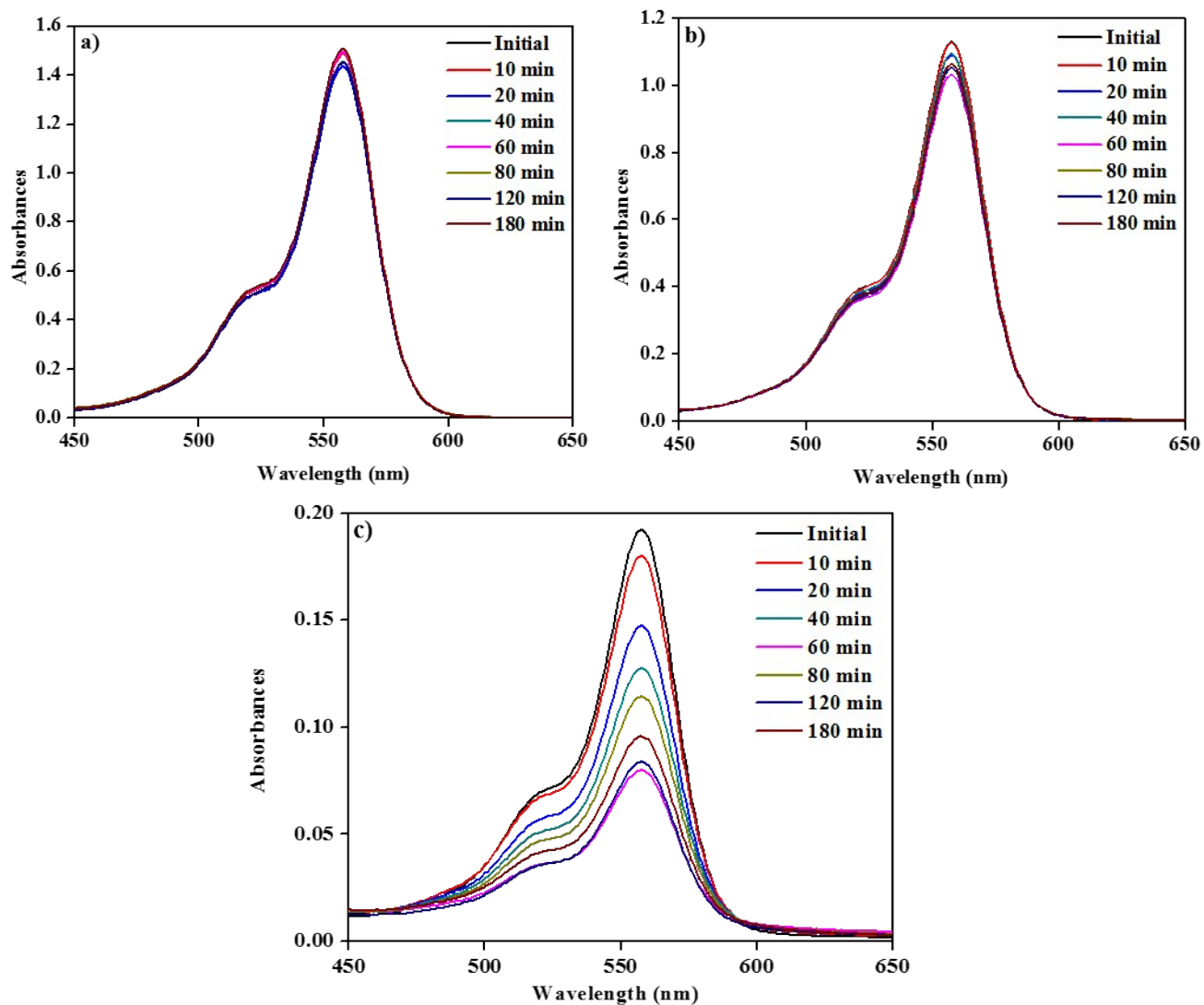


Fig. S3 Scanning wavelength for effect of time on RB (a) MNP, (b) MNP-PANI and (c) MNP-PANI-DICAT.

Table S1 Main IR frequency with assignments and ¹H NMR chemical shift (δ) of dicationic ionic liquid.

Assignments:	DICAT-Cl	DICAT-NTf₂
	Wavenumber (cm ⁻¹):	
N-H stretching	3444.71	3627.21
C=C aromatic ring	1647.15	1634.09
-CH ₂	1458.54	1455.98
-CH ₃	1353.42	1353.62
C-C aromatic ring	1506.50	1515.93
C-N aromatic ring	1233.43	1201.31
-Cl	715.64	-
Proton (Changes):	Chemical shift (δ)	
Ha (+0.019)	7.077	7.096
Hb (+0.079)	7.111	7.190
Hc (+0.025)	7.061	7.086
Hd (+0.031)	5.030	5.061
He (+0.194)	7.461	7.655
Hf (-0.007)	7.006	6.999
Hg (+0.031)	7.080	7.111
Hh (+0.030)	6.819	6.849
Hi (+0.010)	2.217	2.227

Table S2 TGA analysis of MNPs, MNP-PANI and MNP-PANI-DICAT

Sample	Region (°C)	Weight loss (%)	Assignment
MNPs	(35 – 129)	2.3	Water loss/ moisture
MNP-PANI	(42 – 126)	7.9	Water loss/ moisture
	(362 – 688)	67.8	Aniline polymer
MNP-PANI-DICAT	(43 – 102)	6.8	Water loss/ moisture
	(364 – 739)	66.6	Imidazolium, Aniline polymer