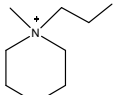
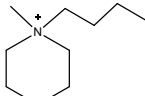
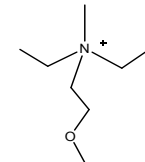
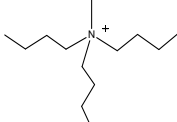
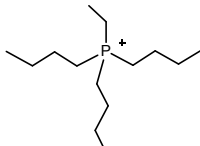
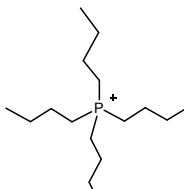
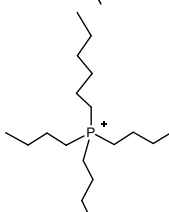


1 Table S1. Structure and properties of the ionic liquids used in this investigation.

Systematic name	Abbreviation	Cation	Anion	Molecular weight
1-ethyl-3-methylimidazolium bromide	[EMIM]Br		Br ⁻	191.07
1-propyl-3-methylimidazolium tetracyanoborate,	[PMIM] Cl		Cl ⁻	160.64
1-butyl-3-methylimidazolium tetrafluoroborate	[BMIM]BF ₄		BF ₄ ⁻	226.20
1-amyl-3-methylimidazolium chloride chloride	[AMIM] Cl		Cl ⁻	188.70
1-hexyl-3-methylimidazolium chloride	[HMIM] Cl		Cl ⁻	202.72
1-octyl-3-methylimidazolium chloride	[OMIM] Cl		Cl ⁻	230.50
1-decyl-3-methylimidazolium tetrafluoroborate	[DMIM]BF ₄		BF ₄ ⁻	310.18
1-benzyl-3-methylimidazolium Tetrafluoroborate	[BzMIM] BF ₄		BF ₄ ⁻	260.04
1-butyl-2,3-dimethylimidazolium tetrafluoroborate	[BMMIM]BF ₄		BF ₄ ⁻	240.05
1-hexyl-2,3-dimethylimidazolium tetrafluoroborate	[HMMIM]BF ₄		BF ₄ ⁻	268.10
1,3-dimethylimidazolium methylsulfate bromide	[DMMIM] Br		Br ⁻	317.13
1-ethylpyridinium bromide	[EPy] Br		Br ⁻	188.07
1-butylpyridinium hexafluorophosphate	[BPy] PF ₆		PF ₆ ⁻	281.18
1-hexyl pyridinium bromide	[HPy] Br		Br ⁻	244.17
N-octyl pyridinium bromide	[OPy]Br		Br ⁻	272.22
N-butyl-N-methylpyrrolidinium bromide	[P ₁₄] Br		Br ⁻	222.17

N-propyl-methyl piperidinium bromide	[PP ₁₃]Br		Br ⁻	222.17
1-Butyl-1- methylpiperidinium bromide	[PP ₁₄]Br		Br ⁻	236.19
N,N-Diethyl-N-methyl- N-(2- methoxyethyl)ammoniu m tetrafluoroborate	[N _{122,102}]BF ₄		BF ₄ ⁻	233.06
Tributylmethylammoniu m chloride	[N ₁₄₄₄]Cl		Cl ⁻	235.84
Ethyltributylphosphoni um bromide	[P ₂₄₄₄] Br		Br ⁻	311.28
Tetrabutylphosphonium bromide	[P ₄₄₄₄]Br		Br ⁻	339.33
Tributylhexylphosphoni um bromide	[P ₄₄₄₆]Br		Br ⁻	367.37

1 Figure captions:

2 Fig. S1. Effects of extraction time on the extraction efficiency of ILs. Values
3 expressed as mean $\pm$ standard deviation ($n = 3$).

4 Fig. S2. Effects of extraction temperature on the extraction efficiency of ILs. Values
5 expressed as mean $\pm$ standard deviation ($n = 3$).

6 Fig. S3. Effects of solid-liquid ratio on the extraction efficiency of ILs. Values
7 expressed as mean $\pm$ standard deviation ($n = 3$).

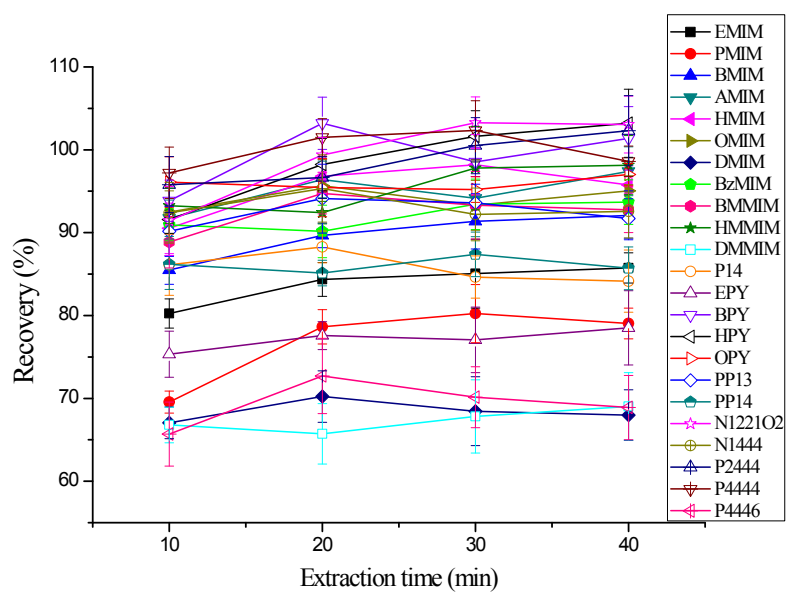
8 Fig S4. Effects of loading solution on the recovery of IL cations. Values expressed as
9 mean $\pm$ standard deviation ($n = 3$).

10 Fig S5. Effects of eluting solvent pH on the recovery of IL cations. Values expressed
11 as mean $\pm$ standard deviation ($n = 3$).

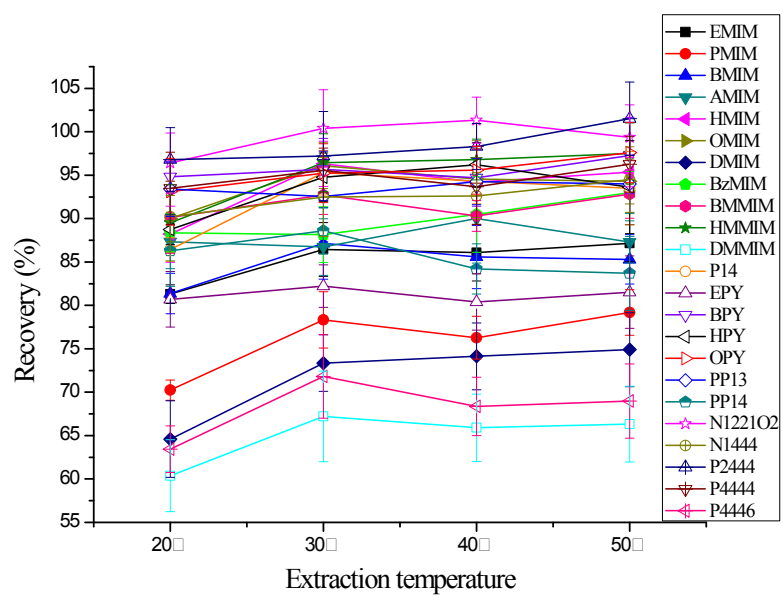
12 Fig S6. Effects of eluting volume on the recovery of IL cations. Values expressed as
13 mean $\pm$ standard deviation ($n = 3$).

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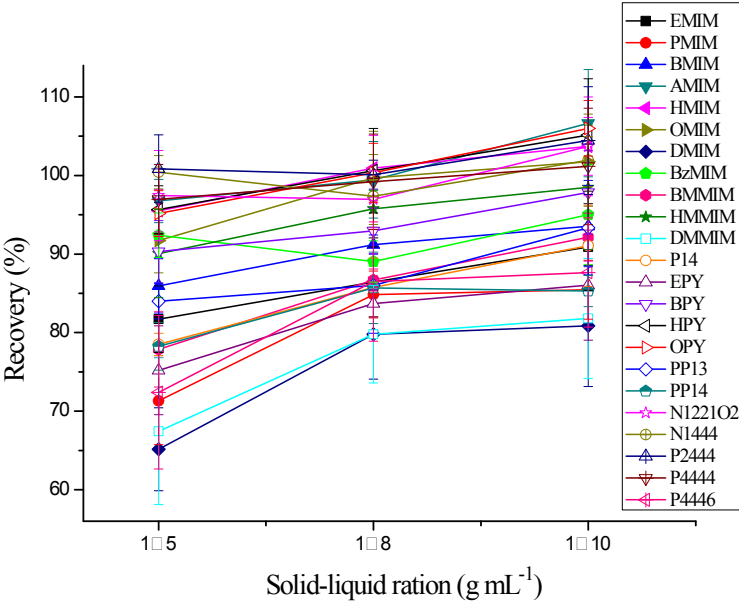
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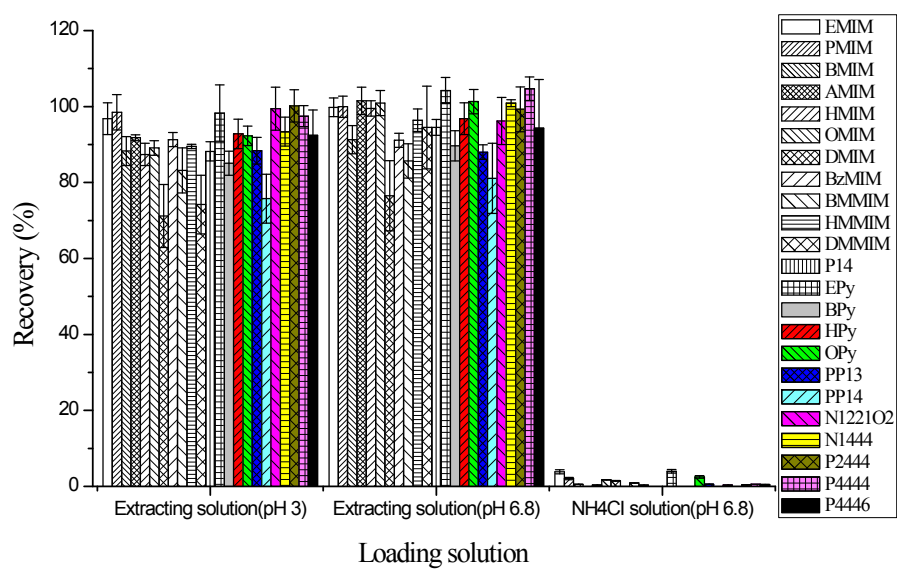
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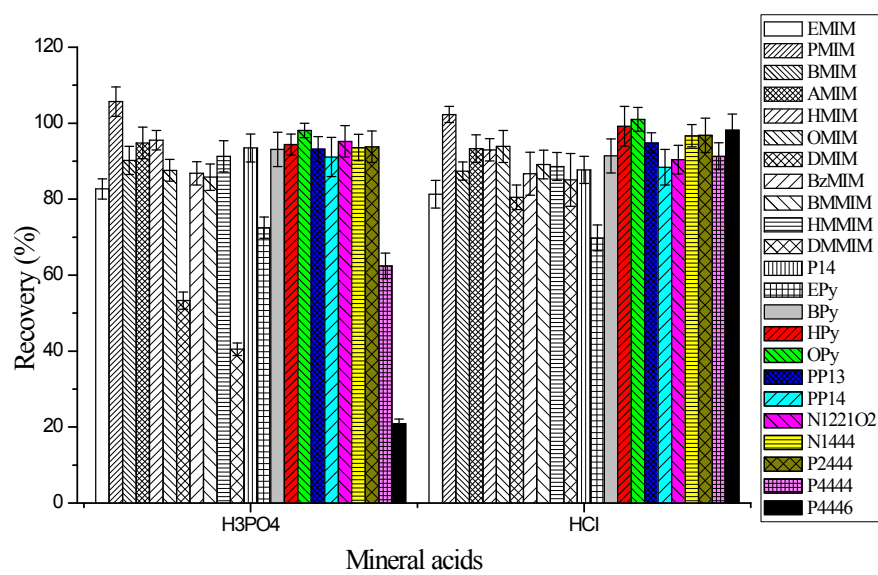
1 Fig.S3



1 Fig. S4



1 Fig. S5



1 Fig. S6

