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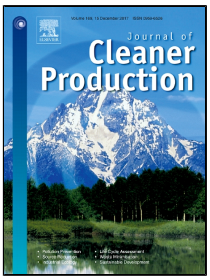

Simultaneous extraction, transformation and purification of psoralen from Fig leaves using pH-dependent ionic liquid solvent based aqueous two-phase system

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Highlights.

1、[Bmim]Br was more efficient than ethanol for psoralen extraction from fig leaves.

2、[Bmim]Br-critic acid mixture has enhanced extraction and transformation efficiency.

3、[Bmim]Br-critic acid single phase system could form ATPS by adjust PH value.

4、The integrated and sustainable ILs-acid based PH-dependent ATPS was efficient.

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