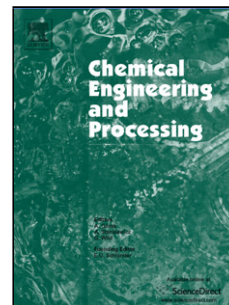


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# RECENT ADVANCES IN SMART INTEGRATED MEMBRANE ASSISTED LIQUID EXTRACTION TECHNOLOGY

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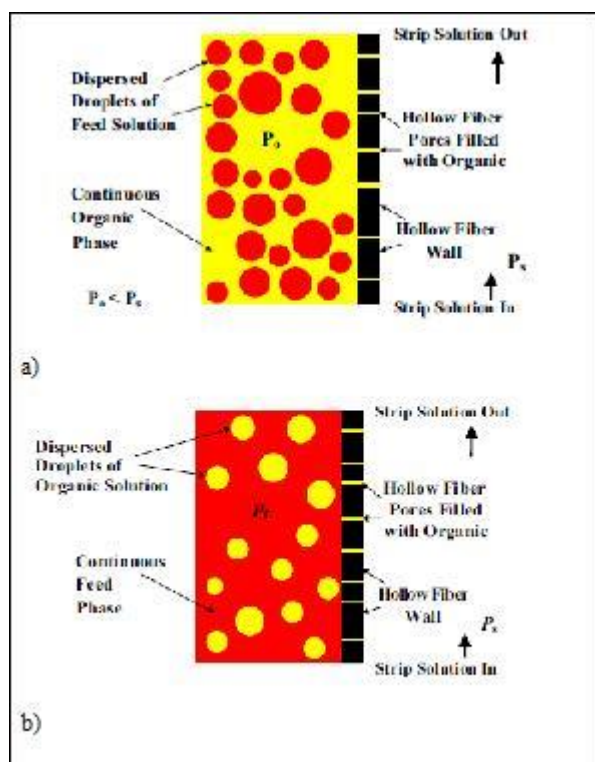
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## Graphical abstract

Novel processes based on SIMALE have been proposed as effective methods for the selective separation of different chemical species such as metal ions, organic/ biologically important compounds and gas mixtures from different waste streams including nuclear waste. This review discuss important applications including scale up, process intensification aspects, current status of the technology and future directions.



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