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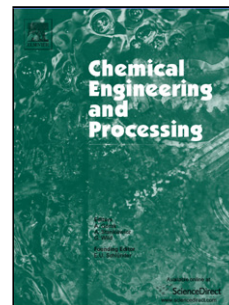
Title: Removal of chromium(VI) from aqueous solutions using a novel hybrid liquid membrane—electrodialysis process

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Removal of chromium(VI) from aqueous solutions using a novel hybrid liquid membrane – electrodialysis process

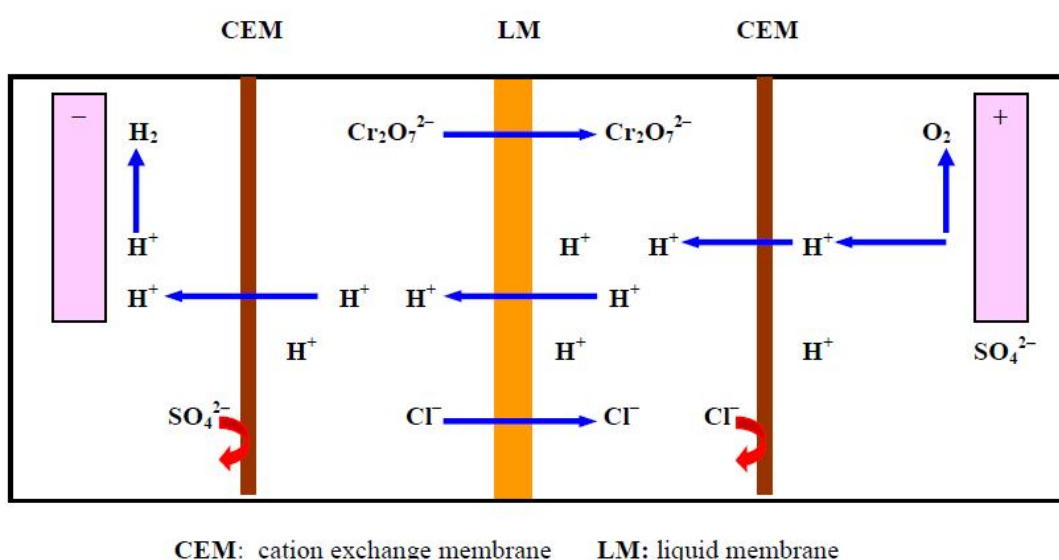
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Graphical abstract

Graphical Abstract



HIGHLIGHTS

- Transport of Cr(VI) through the liquid membranes during electrodialysis is studied;
- Solutions of tri-*n*-octylamine in 1,2-dichloroethane were used as the liquid membranes;
- Complete removal of Cr(VI) from 0.01 mol L⁻¹ K₂Cr₂O₇ solution is achieved;
- Maximal stripping degree of ~ 90 % is obtained under the optimal conditions;
- Transfer of Cr(VI) into solutions of HCl, H₂SO₄, HClO₄, H₃PO₄ and water is achieved.

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