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# A membrane electroflotation process for recovery of recyclable chromium(III) from tannery spent liquor effluent

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## Highlights

- A novel two compartment membrane electroflotation process is proposed.
- $\text{Cr}^{3+}$  is recovered from  $\text{Cl}^-$  containing spent liquor without oxidizing into  $\text{Cr}^{6+}$ .
- The mechanism of  $\text{Cr}^{3+}$  removal by electroflotation is discussed.
- Recovered  $\text{Cr}(\text{OH})_3$  is successfully reused in the tanning of cowhide.
- Recovered product performance is comparable to available commercial product.

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