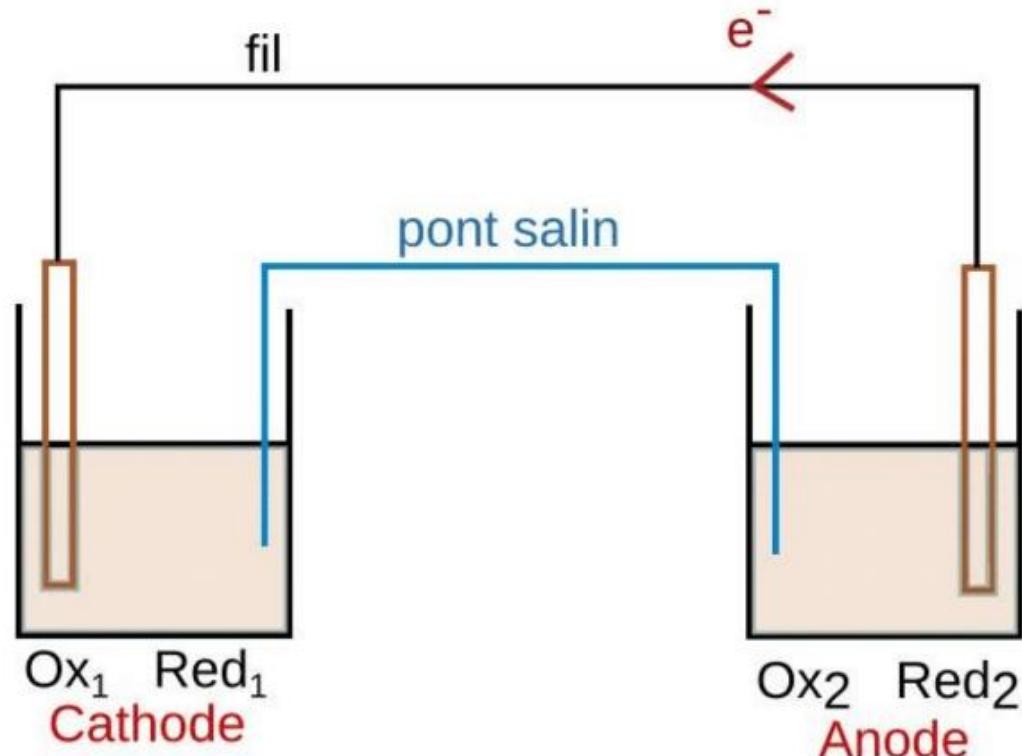


LC26 : Conversion réciproque d'énergie électrique en énergie chimique

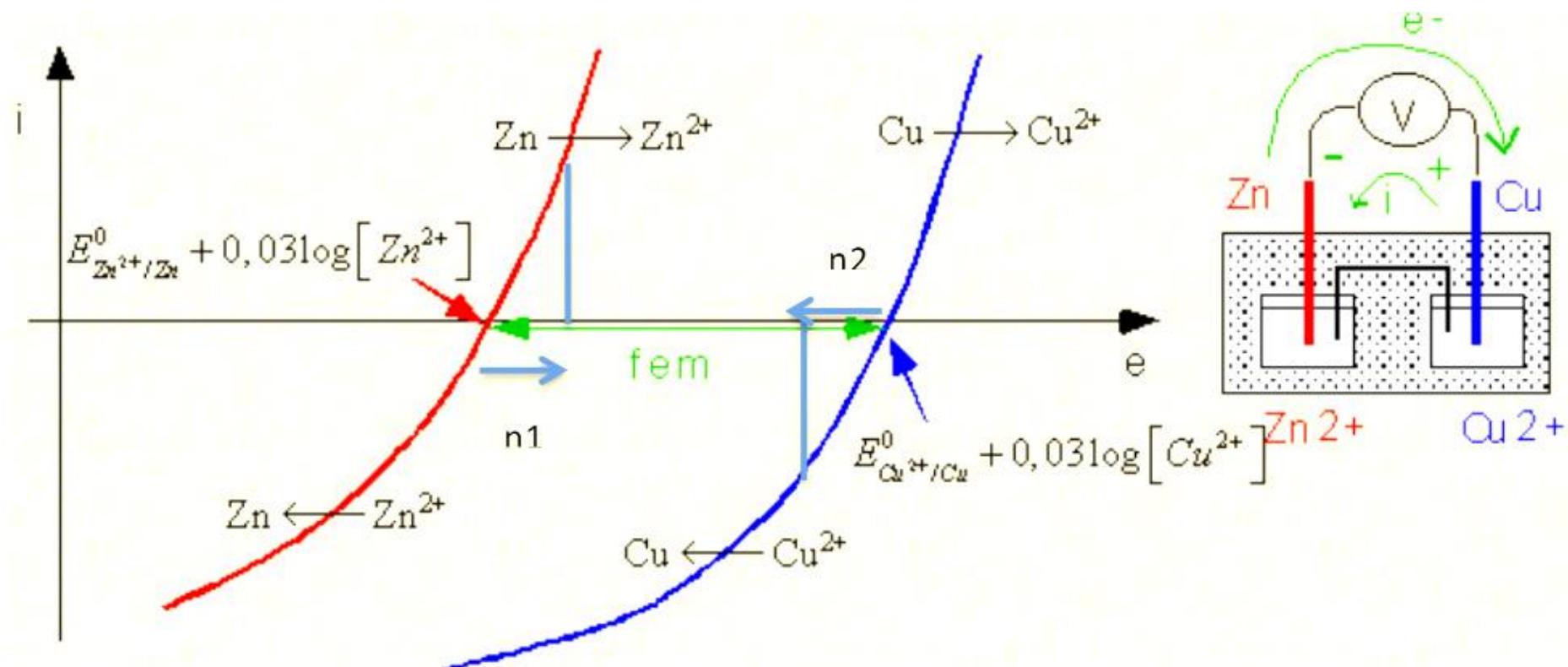
Mathieu Markovitch

Principe d'une pile

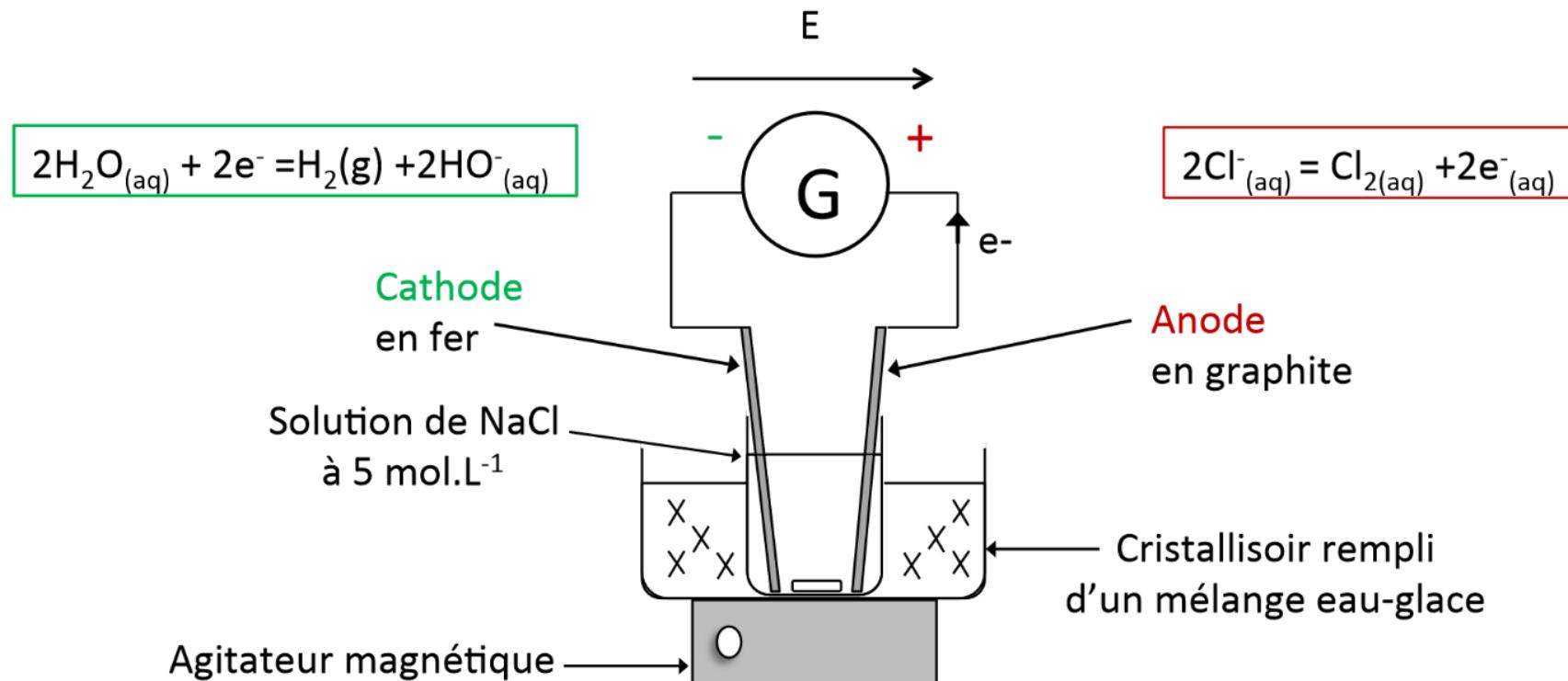


<https://www.edumedia-sciences.com/fr/media/711-pile-daniell>

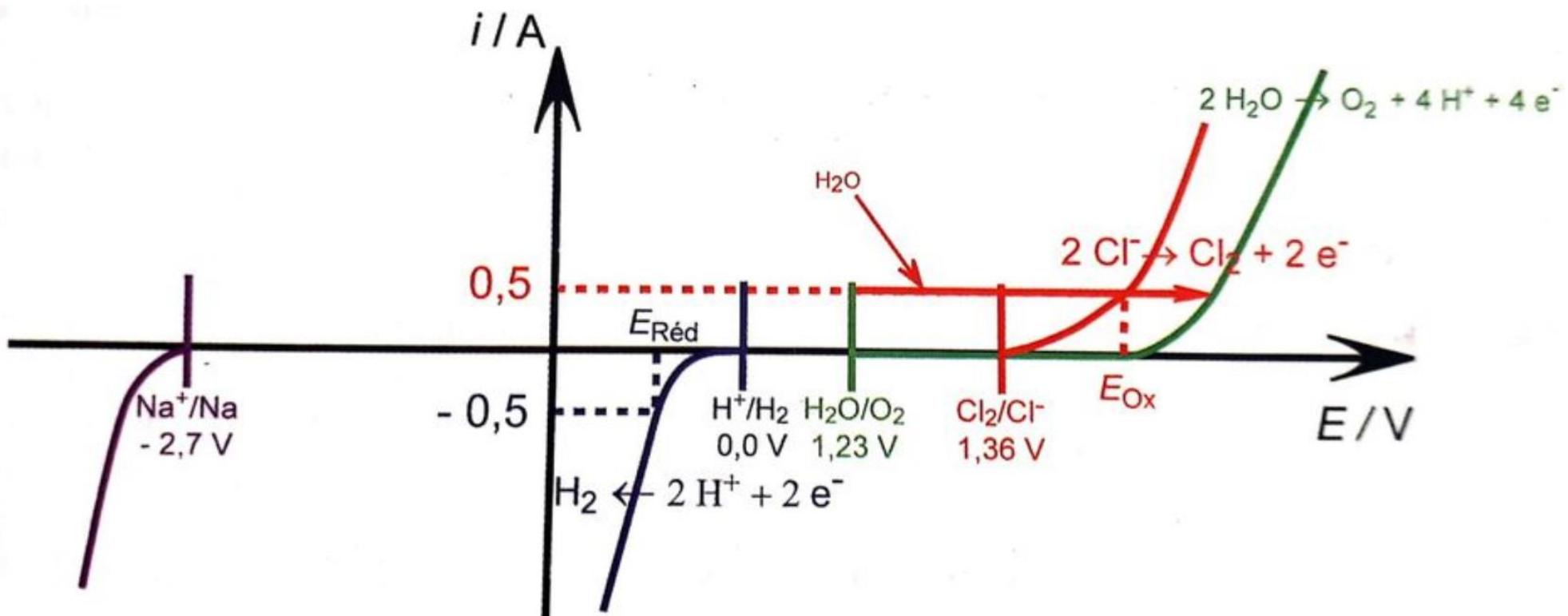
Courbes i-E



Synthèse de l'eau de Javel

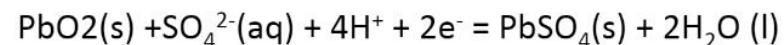


Synthèse de l'eau de Javel



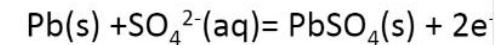
Décharge de l'accumulateur

Réduction

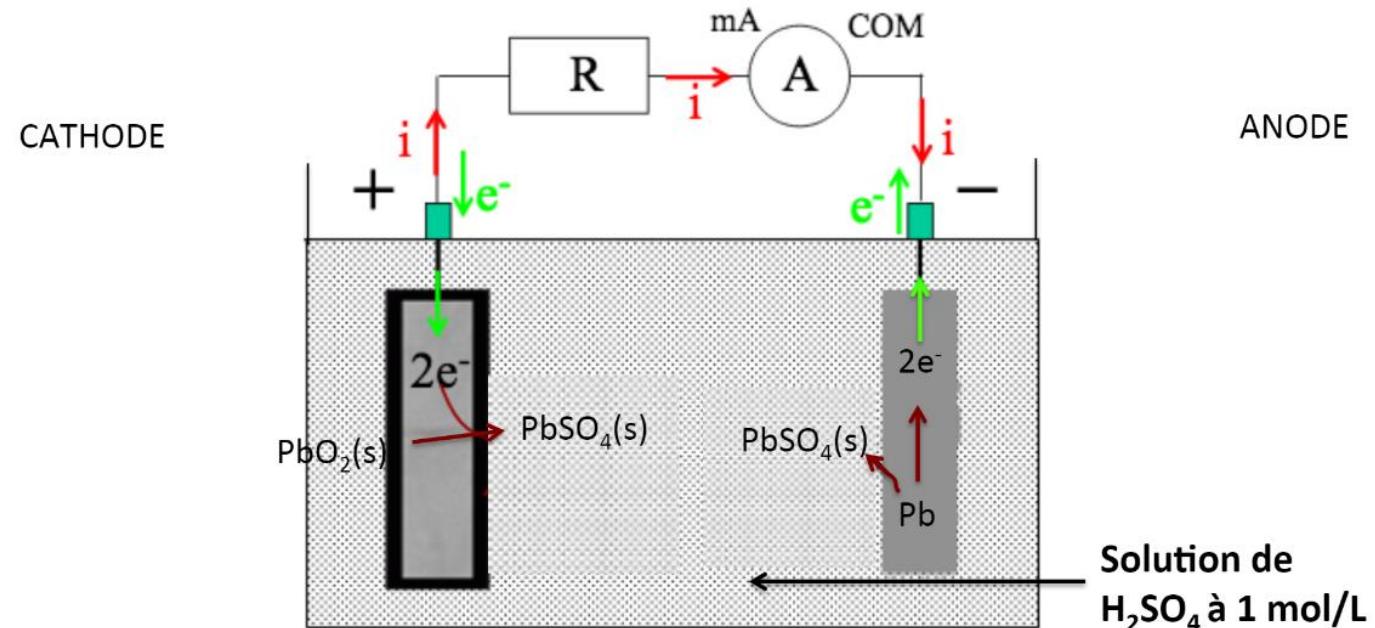


$$E(\text{PbO}_2/\text{PbSO}_4) = 1,72 \text{ V}$$

Oxydation

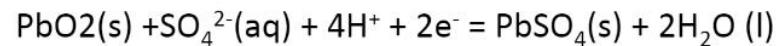


$$E(\text{PbSO}_4/\text{Pb}) = -0,36 \text{ V}$$

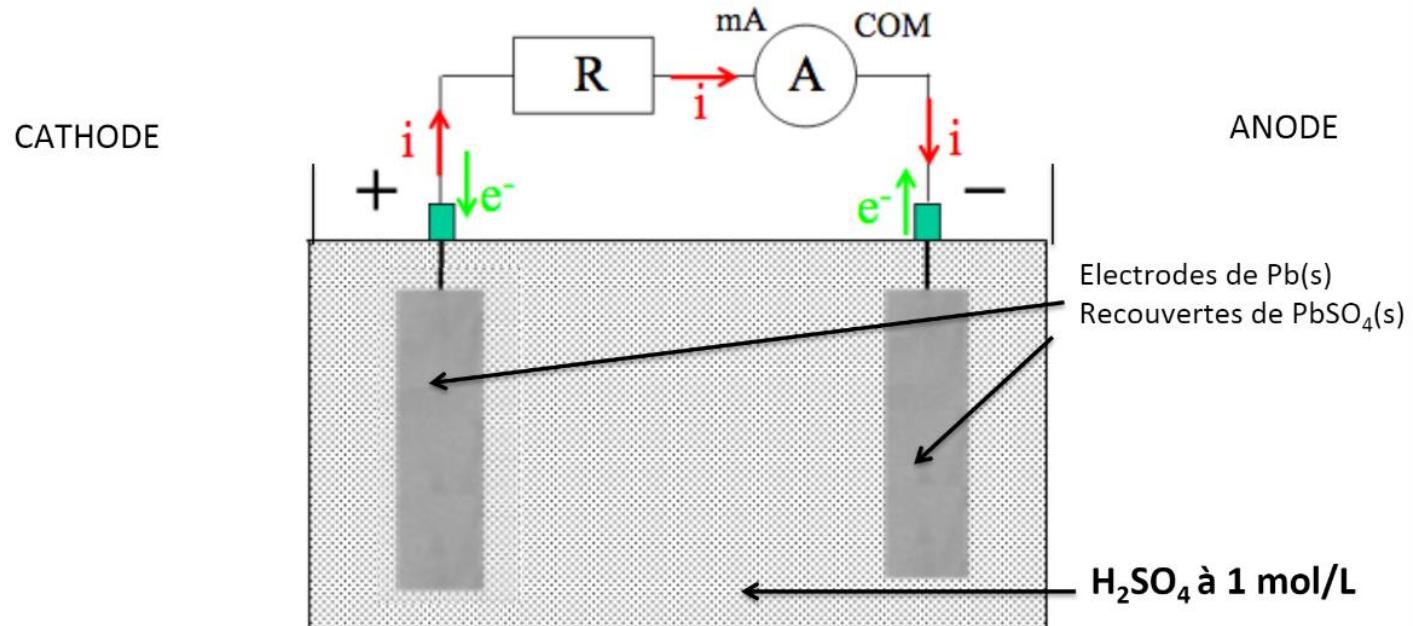
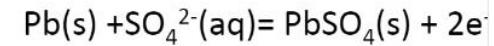


Accumulateur déchargé

Réduction



Oxydation

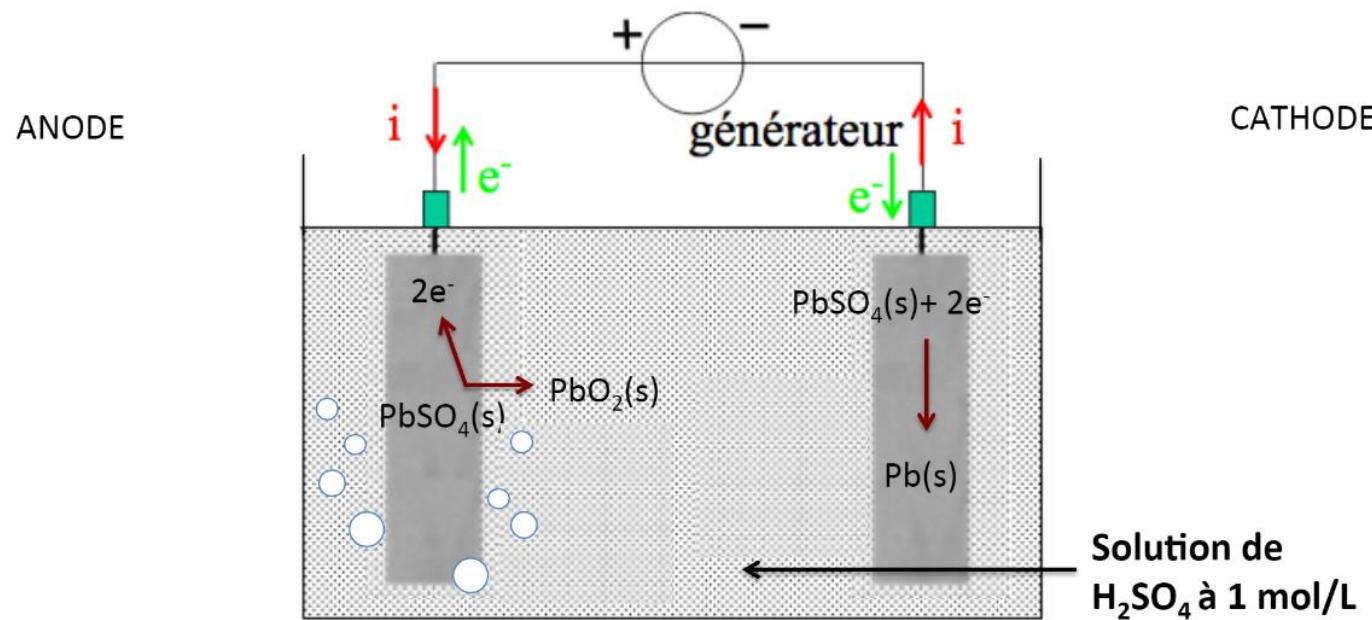
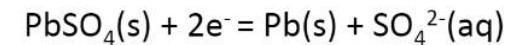


Charge de l'accumulateur

Oxydation

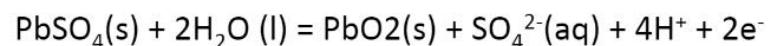


Réduction

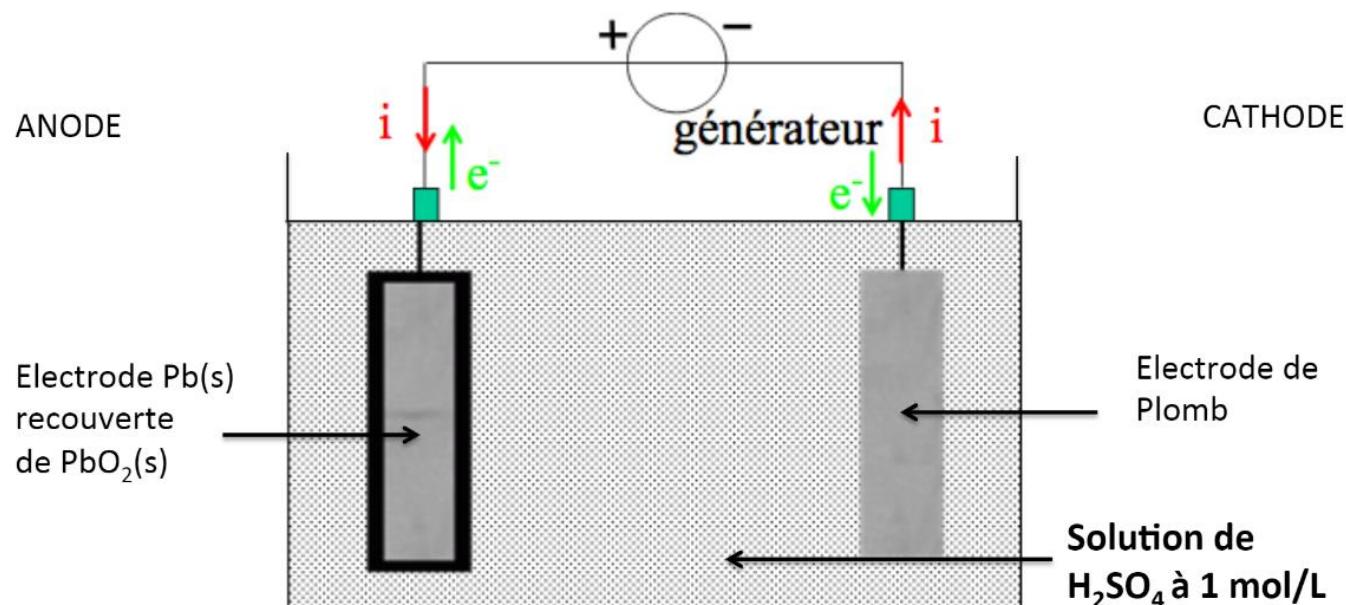
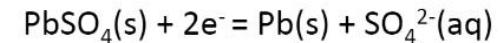


Accumulateur chargé

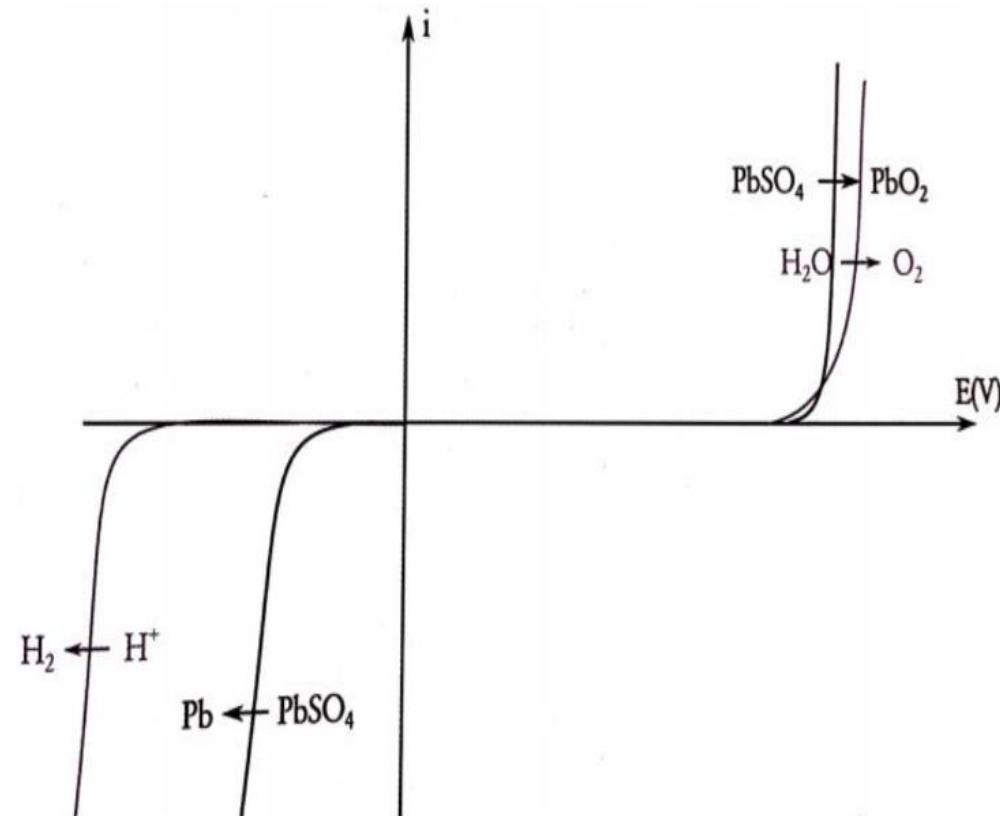
Oxydation



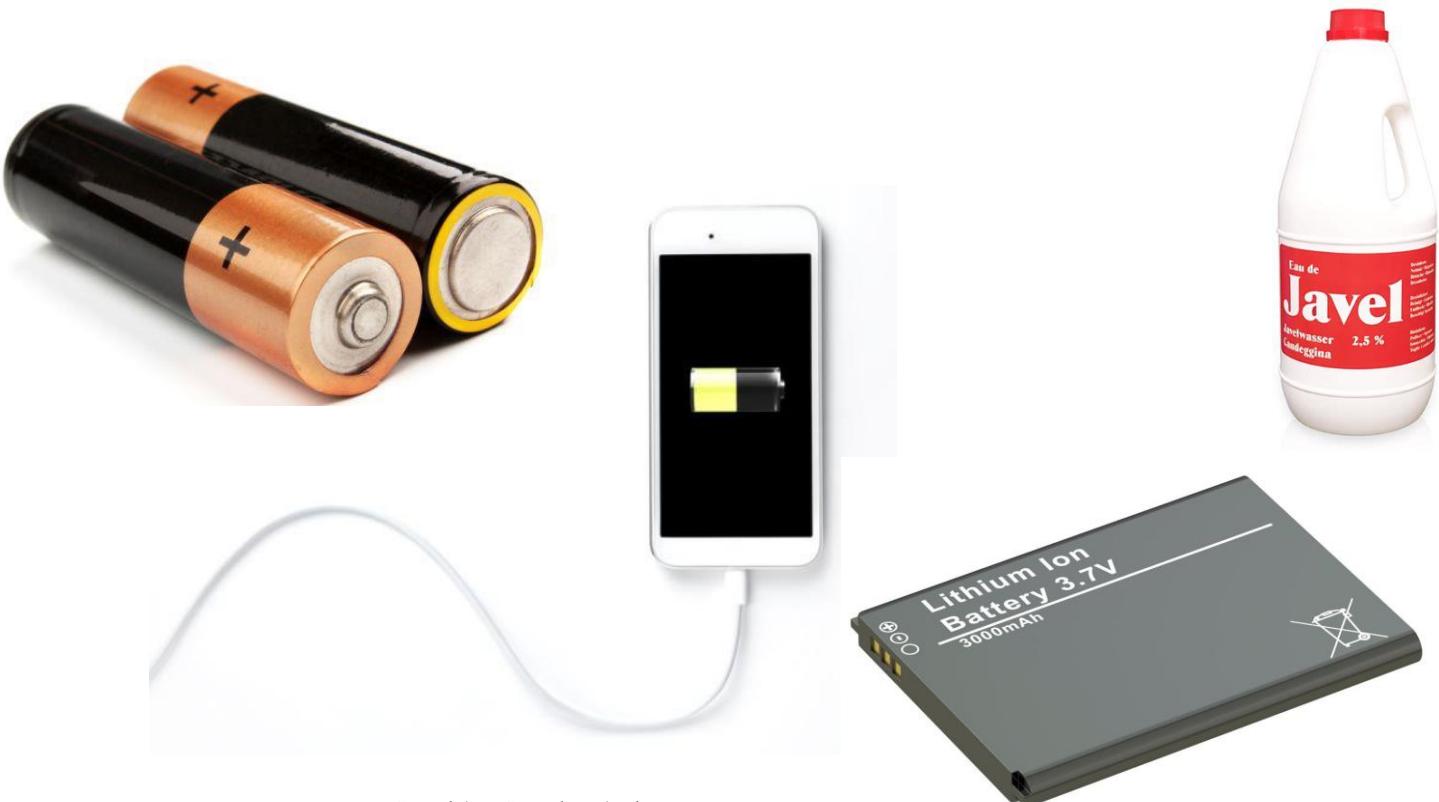
Réduction



Courbes i-E



Conclusion



Mathieu Markovitch