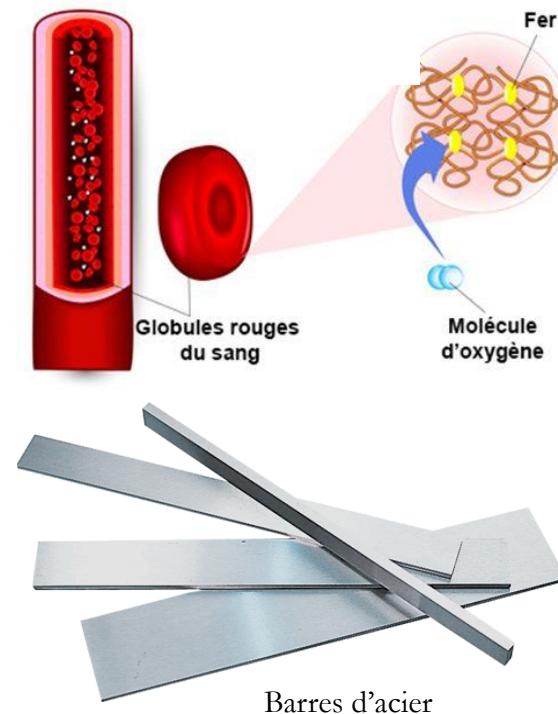


LC7 : Evolution spontanée d'un système chimique

Mathieu Markovitch

Le fer



Deux réactions spontanées

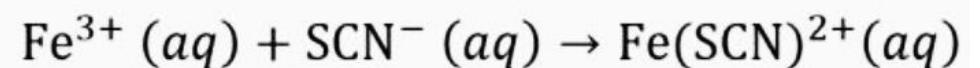
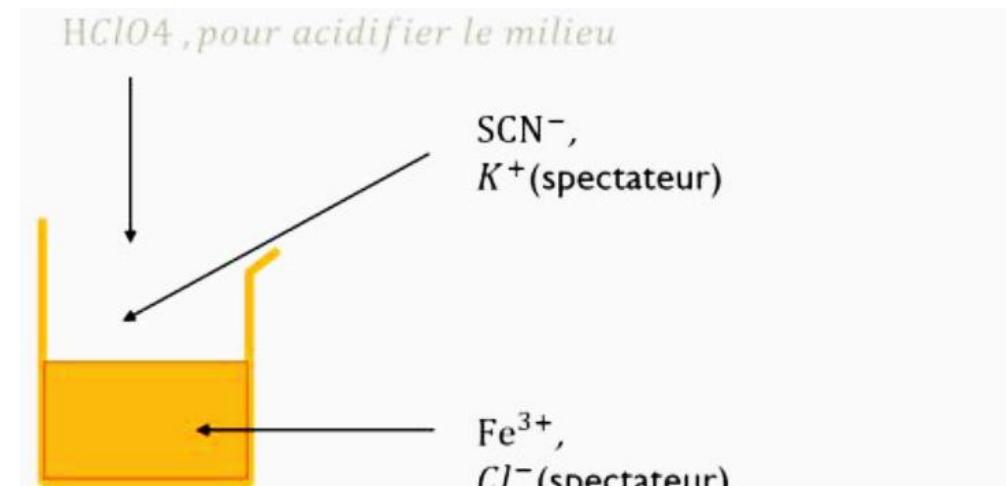
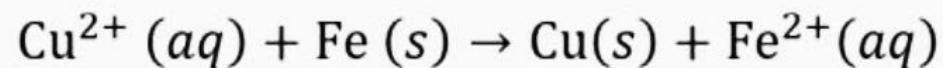
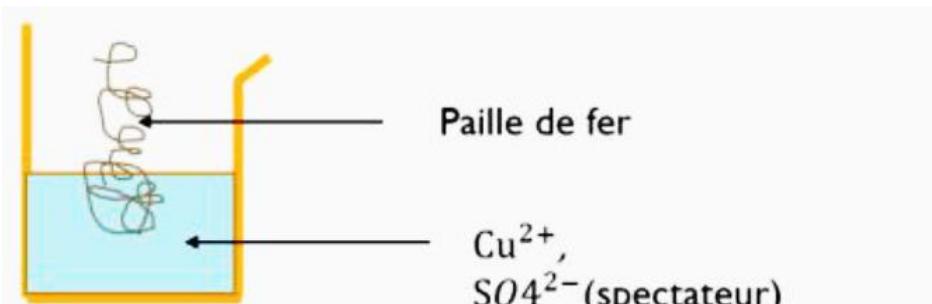
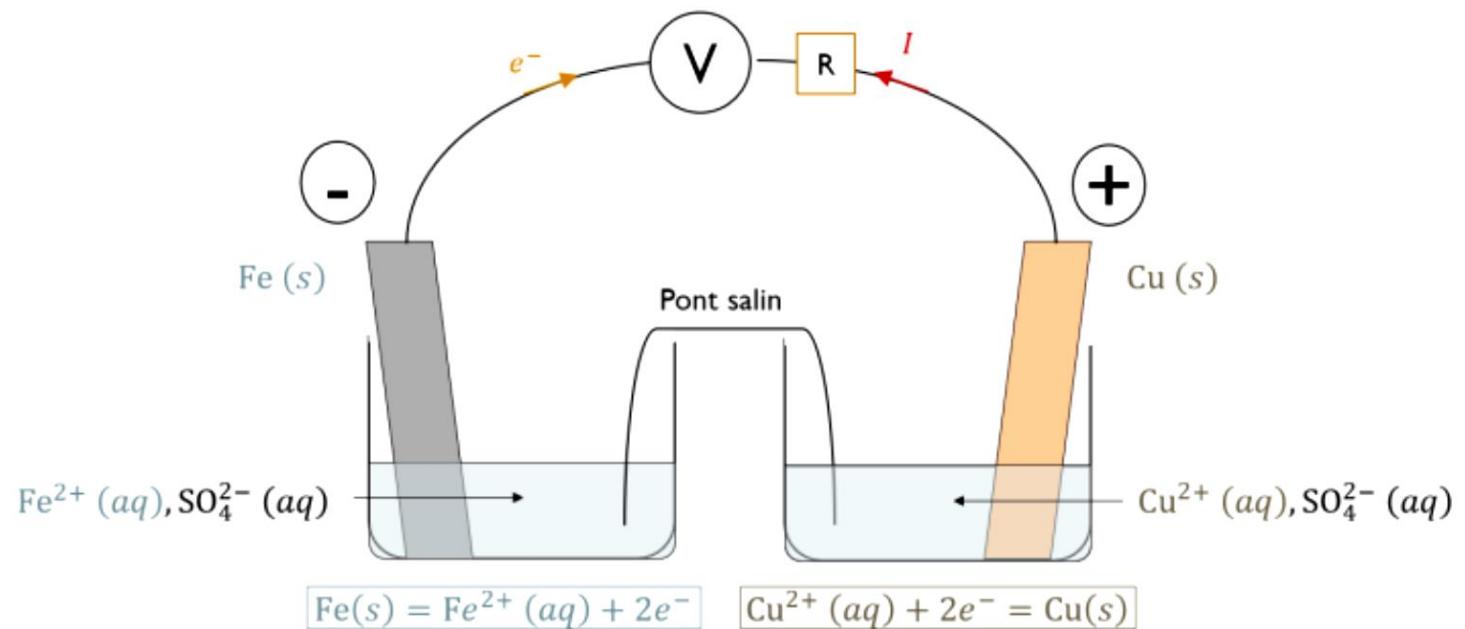


Tableau d'avancement

| | Fe^{3+} | + | SCN^- | = | $\text{Fe}(\text{SCN})^{2+}$ |
|--------------|-----------------------|---|-----------------------|---|------------------------------|
| Etat initial | c_0 | | c_1 | | 0 |
| Equilibre | $c_0 - x_{\text{eq}}$ | | $c_1 - x_{\text{eq}}$ | | x_{eq} |

$$K(T) = \frac{(c_0 - x_{\text{eq}})}{(c_0 - x_{\text{eq}})(c_1 - x_{\text{eq}})}$$

Pile



Protection contre la corrosion du fer



Mathieu Markovitch