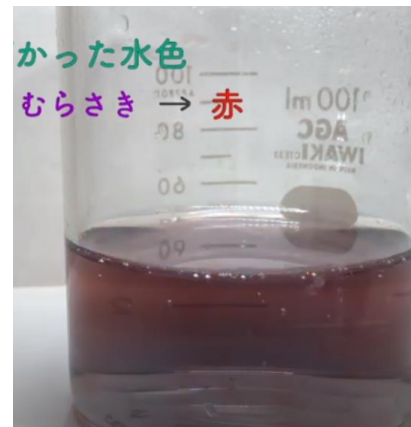
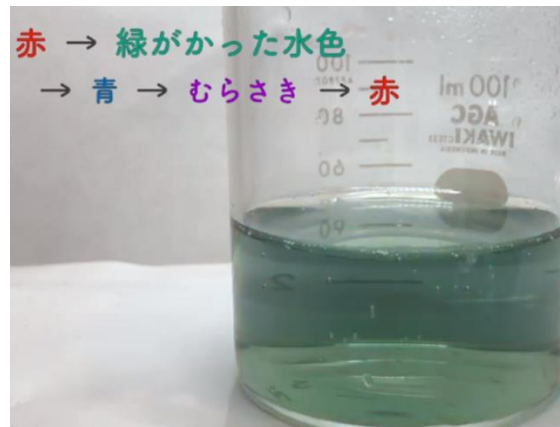


ベロウソフ・ジャボチンスキー反応

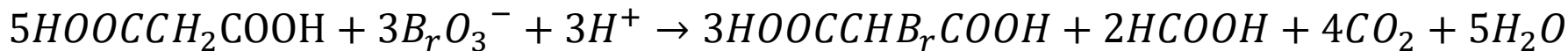


出典：<https://www.youtube.com/watch?v=BZxGpwNMzts>



出典：<https://www.youtube.com/watch?v=eXL6jhe8S-w>

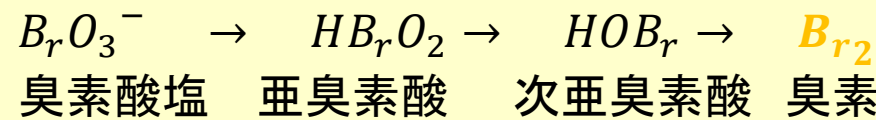
ベロウソフ・ジャボチンスキー反応



酸化数 3

1

0

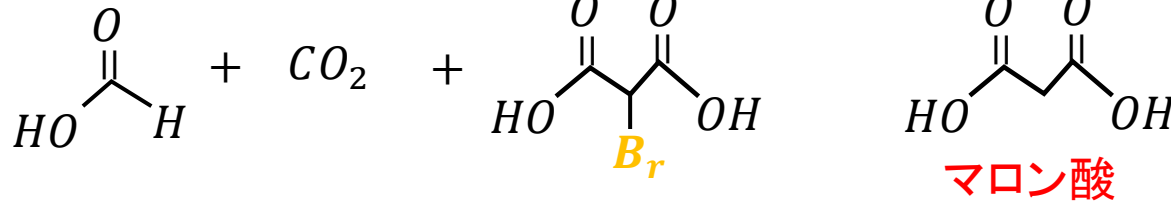
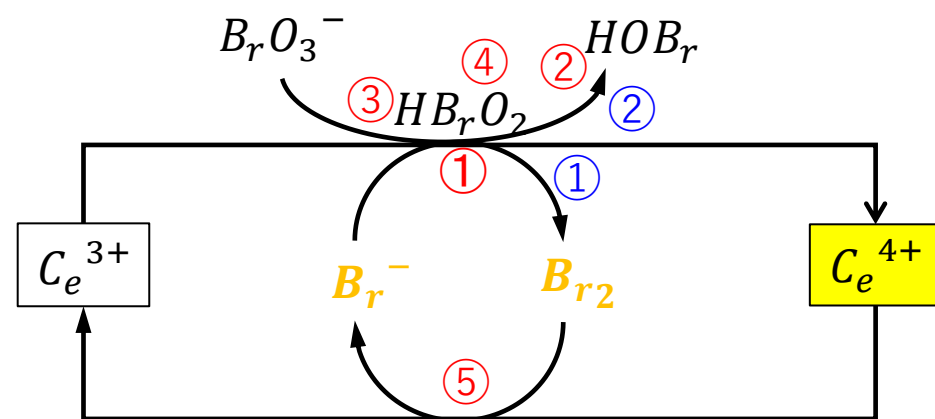
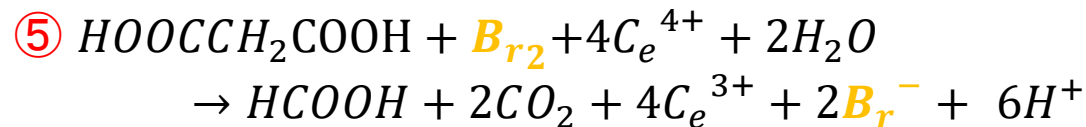
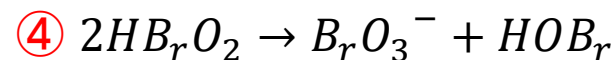
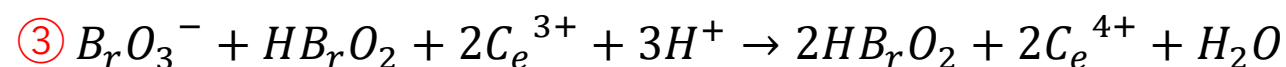
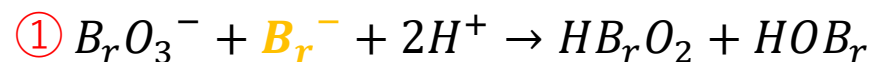
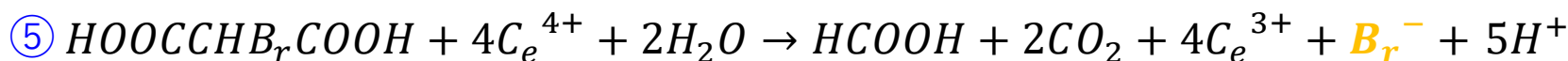
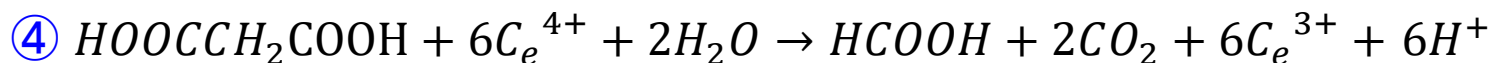
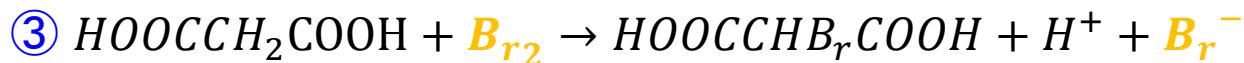
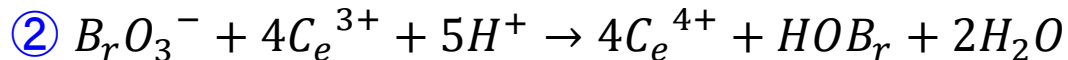
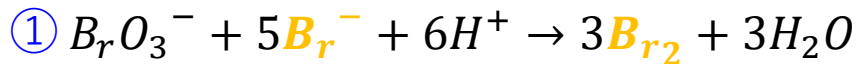


臭素酸塩 亜臭素酸 次亜臭素酸 臭素

Br^- が消失すると①の還元は停止

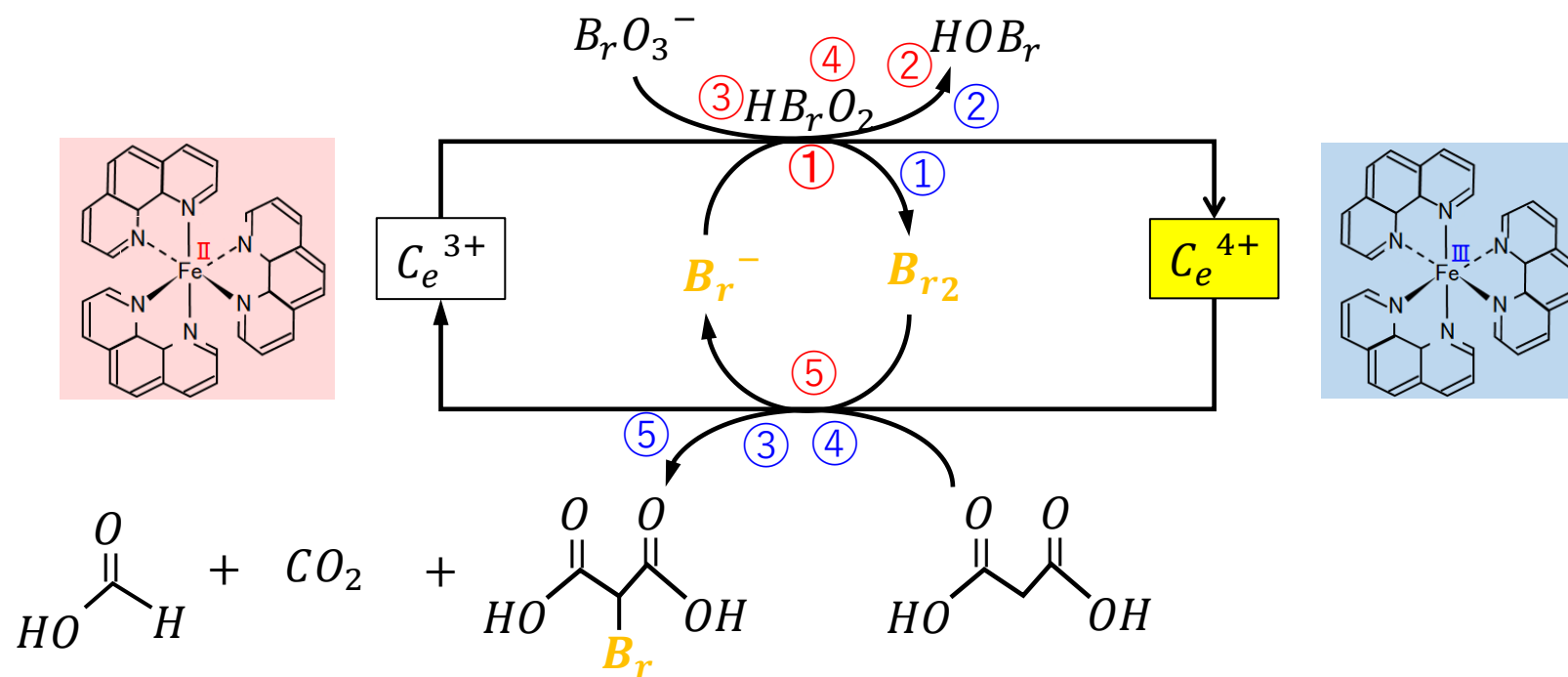
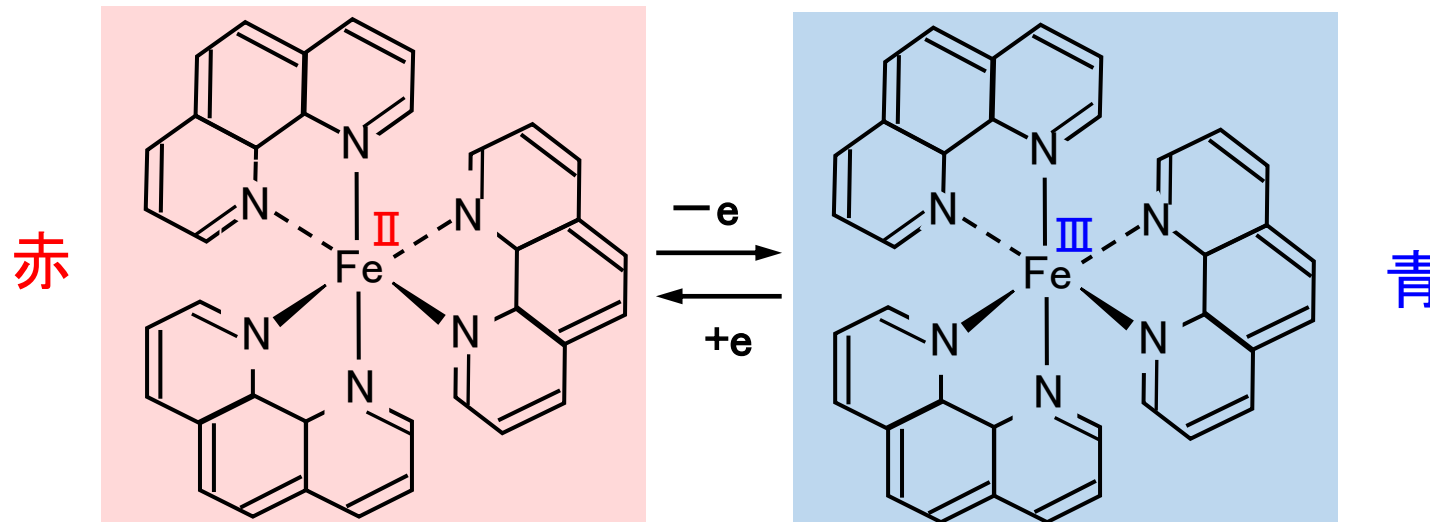
②の反応が急激に生じ、酸化型金属増

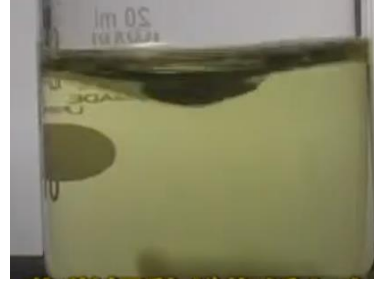
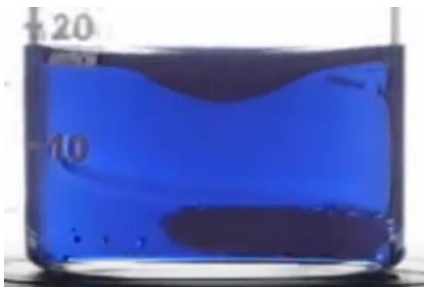
③～⑤により還元型金属になり Br^- 増



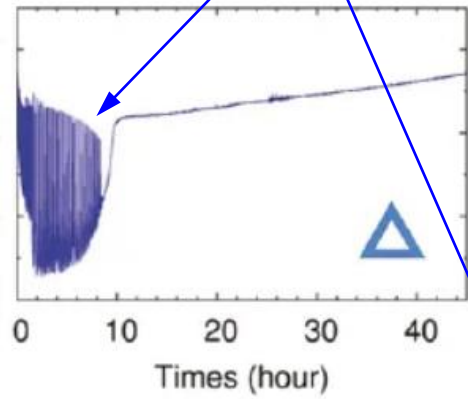
酸化還元指示薬

フェナントリン鉄錯体

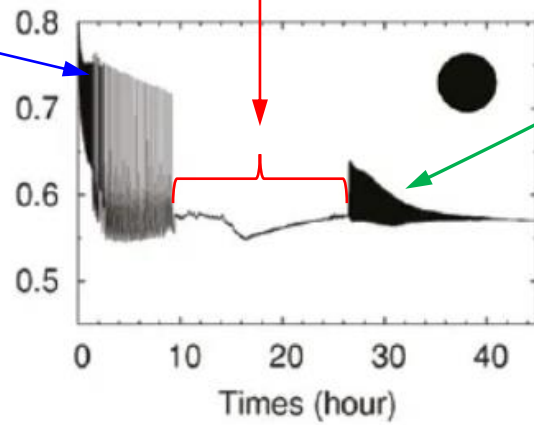




酸化還元電位

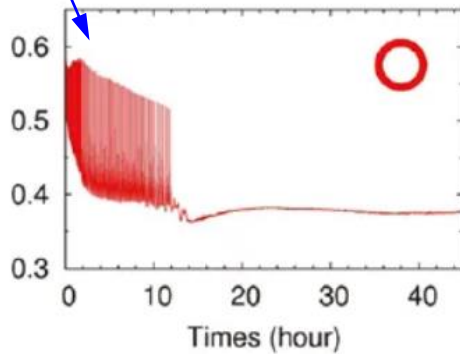


高め安定

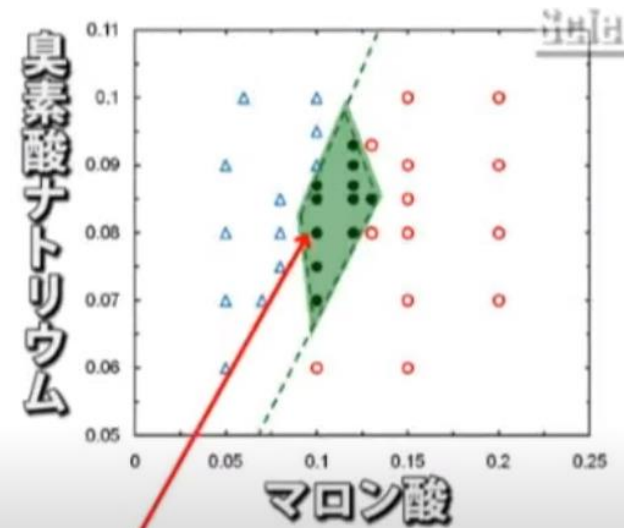


停止期間

振動復活



低め安定



振動が復活する濃度の領域

Onuma, H.; Okubo, A.; Yokokawa, M.; Endo, M.; Kurihashi, A.; Sawahata, H. *J. Phys. Chem. A* 2011, 115, 14137–14142.
DOI: [10.1021/jp200103s](https://doi.org/10.1021/jp200103s)