

Development of Nonaqueous Redox Flow Batteries

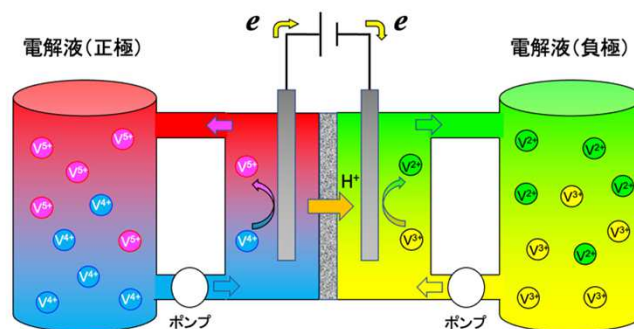
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Research Area

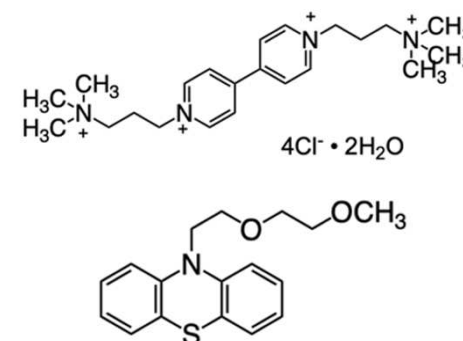
Advantages of Redox Flow Batteries

- High-Energy and Low-Cost Battery
- High Affinity with Renewable Energy Sources such as Solar Panels
- We can use various redox-active materials for low-cost redox flow batteries.

Redox Flow Batterie



Organic Redox Flow Battery Materials



Recent Activities

- Nami Tagami-Kanada, Koji Yoshikuni, Satoru Mizuno, Toru Sawai, Manabu Fuchihata, Tamio Ida, “Combustion characteristics of densified solid biofuel with different aspect ratios”, *Renewable Energy*, **2022**, 197, 1174-1182.
- Seiji Ogo, Takeshi Yatabe, Hidetaka Nakai, “Insights from hydrogenase model studies on C–C bond forming reactions”, *Coordination Chemistry Reviews* **2022**, 470, 214697-214697.