学术报告

题 目: Redox control for metal-air batteries and dye-sensitized solar cells

报告人: Assoc. Prof. Yiying Wu
The Ohio State University, USA

时 间: 4 月 14 日 (周一) 上午 10: 00

地 点: 卢嘉锡楼报告厅（202）

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固体表面物理化学国家重点实验室
化学化工学院
4 月 10 日

Redox control for metal-air batteries and dye-sensitized solar cells

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Abstract:

Interfacial electron transfer is ubiquitous in solar cells and batteries, but with different requirements. Unidirectional diode-like behavior is desirable in solar cells, while reversible electron transfer is crucial for rechargeable batteries. In this talk, we will present our recent progress in redox control for metal-air batteries and dye-sensitized solar cells. Three stories will be discussed: (1) molecular and solid-state materials for p-type dye-sensitized solar cells and solar fuels, (2) one-electron K-O2 batteries, and (3) integrated solar batteries.