

Extended Abstract Submission Deadline September 20, 2019

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摘要提交截止日期延长至 2019 年 9 月 20 日

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Cell Symposium: Next-Generation Materials for Energy Applications

细胞研讨会：新一代能源应用材料

in partnership with the Collaborative Innovation Center of Chemistry for Energy Materials (iChEM), Xiamen University

此次会议将与厦门大学能源材料化学协同创新中心（iChEM）联合举办

One of the world's most pressing challenges is the need for clean, sustainable energy. We have a limited timescale to implement sustainable energy solutions at a global scale to mitigate potentially catastrophic climate change and pollution.

人们对于清洁、可持续能源需求的不断增长是全世界所面临的最严峻的挑战之一。为缓解可能引发灾难的气候变化和污染，我们亟需在全球范围内实施可持续能源解决方案。

Further, millions of people around the planet still lack access to reliable electricity. In 2015, the UN announced [17 Sustainable Development Goals](#), with Goal 7 - Affordable and Clean Energy for all – aiming to ensure universal clean energy for everyone by 2030.

此外，全球仍有数百万人无法获得稳定的电力能源供应。2015 年，联合国宣布了 [17 个“可持续发展目标”](#)，其中一个目标即为“人人享有可负担的清洁能源”，旨在确保到 2030 年全民享有清洁能源。

To meet the energy challenge, there is a need for scientific and technological breakthroughs and advances with a clear pathway to real-world impact. Researchers around the world are responding, investigating sustainable and clean molecular and materials systems for energy generation and storage.

应对能源挑战需要科学和技术的突破和进步，而这些突破和进步还需具备明确的现实影响途径。世界各地的研究人员正在共同应对能源挑战，并致力于研究可持续和清洁的分子和材料系统，以生产和存储能源。

In this landmark Cell Symposium, “New Materials for Energy Applications,” leading international experts will come together to present and discuss the latest fundamental and applied research breakthroughs, spanning conceptual advances and outstanding performance results, in topics which include but are not limited to:

在这个将具有里程碑意义的“新一代能源应用材料”细胞研讨会上，国际顶级专家将在这里共同陈述和探讨最新的基础和应用研究突破、拓宽理念进展，并分享杰出的研究成果，主题包括但不限于：

Solar Energy Conversion

- Perovskite solar cells
- Organic photovoltaics
- Other photovoltaic technologies

太阳能转换

- 钙钛矿太阳能电池
- 有机光伏发电
- 其他光伏技术

Energy Storage

- Electrochemical energy storage and conversion materials, including Li-ion batteries and new storage materials
- Grid-scale storage, including flow batteries

能源存储

- 电化学储能存储和转换材料，包括锂离子电池以及新型存储材料
- 网格规模存储，包括液流电池

Nanocatalysis

- HER, OER, ORR
- CO₂ reduction to CO, CH₄, and methanol
- N₂ reduction to ammonia
- Single-atom catalysis

纳米催化

- HER, OER, ORR
- 二氧化碳还原为一氧化碳，甲烷和甲醇
- 氮气还原合成氨
- 单原子催化

Gas Storage and Activation (CO₂, H₂, Natural Gas)

- Metal organic framework
- Covalent organic frameworks

- Zeolites

储气和活化（二氧化碳，氢气，天然气）

- 金属有机框架
- 共价有机框架
- 沸石

Each session will bring the latest developments within the fields from both an experimental and theory perspective. Attendees to the Cell Symposium will see and discuss how cutting-edge developments at the molecular and materials scale may positively impact society in the future.

每一个主题环节都将从实验和理论两方面介绍这些领域的最新进展。与会者将亲身参与并共同探讨分子和材料方面的前沿发展，这将对未来社会产生巨大的积极影响。

The prime objective of this Cell Symposium is to bring communities together, under a common goal, to foster collaboration and drive the search for new energy solutions forward.

此次细胞研讨会旨在将各国学者召集在一起，朝着共同的目标前行，促进合作并推动发掘新的能源解决方案。

Keynote Speakers 主旨演讲嘉宾

- **Michael Graetzel**, 瑞士
- **Daniel G. Nocera**, 美国

Speakers 演讲嘉宾

- **Tonio Buonassisi**, 美国
- **William Chueh**, 美国
- **Mohamed Eddaoudi**, 沙特阿拉伯
- **韩宏伟**, 中国
- **Marta Hatzell**, 美国
- **Kisuk Kang**, 韩国
- **李泓**, 中国
- **Jeffrey R. Long**, 美国
- **Javier Pérez-Ramírez**, 瑞士
- **Linda F. Nazar**, 加拿大
- **徐强**, 日本
- **杨阳**, 美国
- **于吉红**, 中国
- **朱广山**, 中国
- **邹应萍**, 中国

Organizers 会议组织者

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