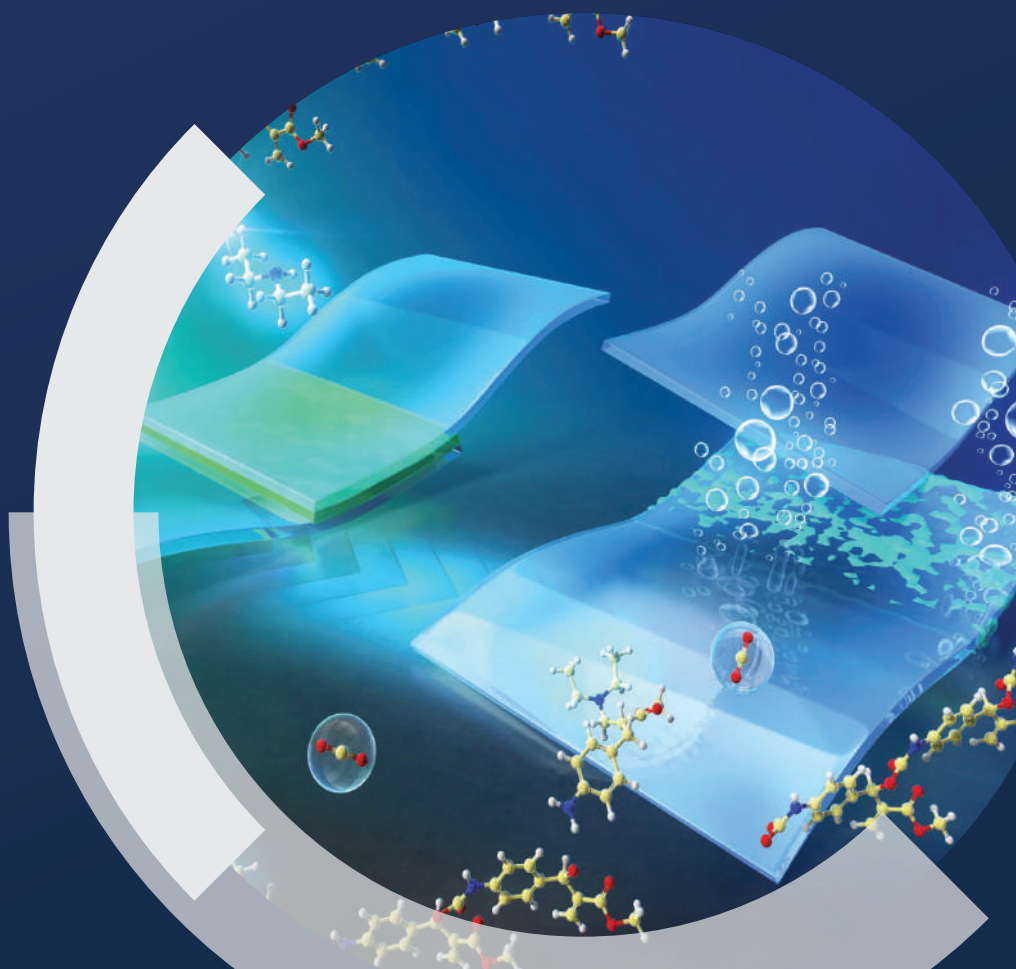


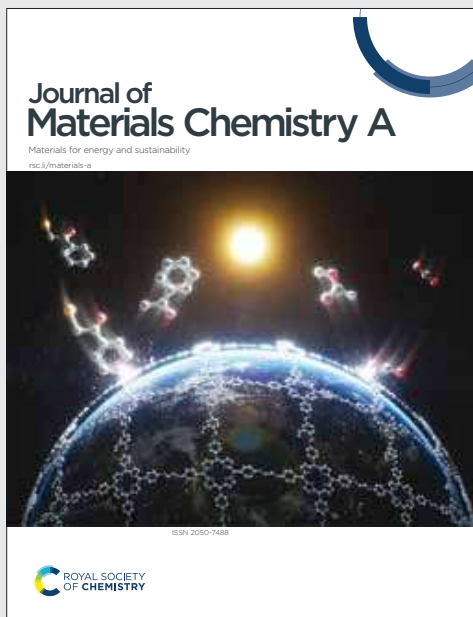
Journal of Materials Chemistry A Symposium: Advancing Energy Materials Research

16 October 2026

Technical Institute of Physics and Chemistry,
Chinese Academy of Sciences

Programme
Book





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Journal of Materials Chemistry A, B & C cover high quality studies across all fields of materials chemistry. *Journal of Materials Chemistry A* focus on materials for energy and sustainability applications.

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Welcome from the Royal Society of Chemistry

Dear Colleagues,

A very warm welcome to the 2026 *Journal of Materials Chemistry A* Symposium.

Organised in collaboration between Technical Institute of Physics and Chemistry, Chinese Academy of Sciences (TIPC, CAS) and *Journal of Materials Chemistry A*, this event aims to showcase a wide variety of cutting-edge research across materials chemistry.

This symposium brings together leading researchers and emerging investigators from a broad range of backgrounds and from across the globe. We strongly encourage delegates to raise questions to our speakers during the discussion to spark collaborations and new ideas across the community.

In addition to our stellar line up of keynote speakers, the programme also features flash talks from postdoctoral researchers, highlighting emerging ideas and exciting advances across the field. We look forward to hearing from early career scientists and future leaders throughout the meeting.

Journal of Materials Chemistry A, published by the Royal Society of Chemistry, has established itself as a leading publication for materials research and has been publishing outstanding science for more than a decade. The symposium will provide a way for our wide community to get in touch with the Editorial Board members, journal editors and fellow researchers across a broad range of topics in materials chemistry.

We'd like to thank each of the speakers and participants for all their contributions. We hope there will be many opportunities during the meeting for informal discussions where you can make new connections as well as renew old ones.

We would also like to extend a heartfelt thank you to Professor Li-Zhu Wu for all her kind support in organising the meeting and to express our gratitude to TIPC, CAS for hosting the event and welcoming us to Beijing to share and discuss the latest exciting research.

Again, welcome to what promises to be a stimulating symposium. We hope that this event will act as a springboard for future activities and look forward to meeting you over the course of the symposium.



Dr Michaela Mühlberg

Executive Editor, *Journal of Materials Chemistry A*
Royal Society of Chemistry



Dr Guanqun Song

Regional Publisher, China
Royal Society of Chemistry

Welcome from Technical Institute of Physics and Chemistry, Chinese Academy of Science

Dear Colleagues,

A very warm welcome to the *Journal of Materials Chemistry A* Symposium: Advancing Energy Materials Research.

It is my great pleasure to chair this one-day symposium, organized in collaboration between Technical Institute of Physics and Chemistry (TIPC), Chinese Academy of Sciences, and *Journal of Materials Chemistry A* (JMCA). This event brings together members of JMCA editorial community, leading researchers, and emerging scientists from China and around the world to exchange ideas and discuss new opportunities in materials chemistry for energy and sustainability.

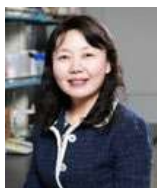
Published by the Royal Society of Chemistry, JMCA is a leading international journal in materials chemistry, providing a global platform for innovative research in energy conversion, energy storage, and sustainable technologies. Over the years, the journal has played an important role in advancing interdisciplinary research and promoting materials solutions to address critical energy challenges.

This symposium offers an excellent opportunity to showcase recent advances in energy materials and explore emerging research directions. We are delighted to welcome distinguished members of JMCA Editorial Board, together with many outstanding scientists whose work represents the diversity and vitality of this rapidly developing field.

Beyond scientific presentations, we hope this meeting will foster open discussion, inspire new ideas, and create opportunities for collaboration. Addressing future energy challenges requires interdisciplinary efforts and continuous scientific exchange.

I would like to express my sincere appreciation to all invited speakers and participants for their valuable contributions, and extend my gratitude to the JMCA editorial team, Royal Society of Chemistry, and TIPC, CAS, for their support in making this symposium possible.

Once again, welcome to the *Journal of Materials Chemistry A* Symposium. We wish you a stimulating, productive, and memorable meeting.



Li-Zhu Wu

Technical Institute of Physics and Chemistry, Chinese Academy of Sciences

Editor-in-Chief, *Journal of Materials Chemistry A*, Royal Society of Chemistry

Programme Agenda

Time	Speaker	Moderator
9:30-9:45	Opening Remarks Li-Zhu Wu , <i>Technical Institute of Physics and Chemistry, CAS</i> Michaela Muehlberg , <i>Royal Society of Chemistry</i>	Guanqun Song , <i>Royal Society of Chemistry</i>
9:45-10:15	Licheng Sun , <i>Westlake University</i> Anion Exchange Membrane Water Electrolysis: O-O Bond Formation Mechanisms Based on Material Catalysts	Yu-Zhe Chen , <i>Technical institute of Physics and Chemistry, CAS</i>
10:15-10:45	Brian W. Sheldon , <i>Brown University</i> Chemomechanics of Lithium Penetration in Solid Electrolytes	
10:45-11:05	Coffee Break	
11:05-11:35	Jianjun Wang , <i>Technical Institute of Physics and Chemistry, CAS</i> Ultrasmall organic nanoparticle as photocatalyst	Subrata Kundu , <i>CSIR-Central Electrochemical Research Institute</i>
11:35-12:05	Michaela Muehlberg , <i>Royal Society of Chemistry</i> Publishing for Impact – Editor tips from the Royal Society of Chemistry	
12:05-14:00	Lunch	Room 402
14:00-14:30	Tong-Bu Lu , <i>Tianjin University of Technology</i> Precise Synthesis and Synergistic Mechanism of Dual-Atom-Catalysts	Michaela Muehlberg , <i>Royal Society of Chemistry</i>

Time	Speaker	Moderator
14:30-15:00	Lydia Helena Wong , <i>Nanyang Technological University</i> Materials for Solar Energy Conversion: From Photovoltaics to Solar Fuels	Mingzhu Li , <i>Technical Institute of Physics and Chemistry, CAS</i>
15:00-15:30	Ricardo Grau-Crespo , <i>Queen Mary University of London</i> Designing materials for thermoelectric applications: density functional theory and machine learning	
15:30-15:50	Coffee Break	
15:50-16:20	Shu Wang , <i>Institute of Chemistry, CAS</i> Cell-Mediated Conducting Polymer Assemblies for Biosensors and Synthetic Biology	Zhiyuan Huang , <i>Technical Institute of Physics and Chemistry, CAS</i>
16:20-16:50	Yuichi Negishi , <i>Tohoku University</i> Atomically precise Materials Chemistry for Sustainable Society	
16:50-17:20	Flash talk (5 min each) Shulin Meng, Kui Xiao, An Bu, Kaiyi Su, Xiaoli Luo, Wenjie Kang	Michaela Muehlberg , <i>Royal Society of Chemistry</i>
17:20-17:30	Closing Remarks Guanqun Song , <i>Royal Society of Chemistry</i>	
18:00	Dinner	