

WMC 2024 and CMC 2024

July 8-11, 2024
Guangzhou, China

Call for Papers (1st Announcement)

Organized by

Chinese Materials Research Society

Sponsored by

The People's Government of Guangzhou Municipality

Website: <https://cmc2024.scimeeting.cn/en>

World Materials Conference 2024 and Chinese Materials Conference 2024

Call for Papers (1st Announcement)

GENERAL INFORMATION

The World Materials Conference 2024 (WMC 2024) and Chinese Materials Conference 2024 (CMC 2024) will be held at the Guangzhou Baiyun International Convention Center from July 8 to 11, 2024. Hosted by the Chinese Materials Research Society (C-MRS), the conference enjoys collaborative support from prominent overseas institutions such as the European Materials Research Society (E-MRS) and the Materials Research Society of Japan (MRS-J). This grand dual event aims to gather international and domestic experts and scholars in the field of materials science, and jointly promote the development of materials science.

WMC 2024 will cover a wide array of topics, including nanomaterials, cultural heritage materials, photo/electrocatalysis, sustainable development materials, low-carbon materials, renewable resources, and functional gradient materials. Simultaneously, CMC, with its successful track record of 23 editions as the annual academic event of C-MRS, will be held, focusing on themes such as energy materials, environmental materials, advanced structural materials, functional materials and material design, preparation and evaluation.

ORGANIZERS

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Chinese Materials Research Society

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COMMITTEE

Conference Chairpersons

Bingbo Wei	President of Chinese Materials Research Society, Academician of Chinese Academy of Science
Yuanyuan Li	President of Chinese Materials Research Society, Academician of Chinese Academy of Engineering

Conference Co-Chairpersons

Tony Kenyon	President of European Materials Research Society
Yuzo Shigesato	President of Materials Research Society of Japan

AGENDA

9:00-21:30, July 8, 2024	Registration
8:30-12:00, July 9, 2024	Opening Ceremony and Plenary Lectures
8:30-12:00, July 10, 2024	Parallel Sessions
13:30-18:00, July 10, 2024	Parallel Sessions and Poster Sessions
8:30-12:00, July 11, 2024	Parallel Sessions

SYMPOSIA AND FORUMS

WMC 2024

A06 Nanomaterials Synthesis and Photo/Electro-catalysis Applications	D35 Energetic Materials
B06 Sustainable Development and Recycling of Materials	E14 Bio-based and Sustainable Materials
B07 Low Carbon Materials and Recyclable Resources	FC02 International Forum on Frontiers of Energy Materials and Interdisciplinary Materials
C18 Functionally Graded Materials	FC03 International Forum on Frontiers of Healthcare Materials
D26 Smart Molecular Materials	

CMC 2024

A. Energy Materials	A01 Energy Conversion and Storage
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Materials

A02 Aqueous Batteries

A03 Nuclear Materials

A04 Organic Solar Cells

A05 Oil and Gas Materials

B. Environmental Materials

B01 Photocatalytic Materials

B02 Eco-materials

B03 Functional Materials for Water Treatment

B04 Reduce, Reuse, Recycle and Recover of Resource Materials

B05 Environmental Separation and Purification Materials and Technology

C. Structural Materials

C01 Powder Metallurgy

C02 Advanced Aluminum Alloys

C03 Advanced Magnesium Alloys

C04 Superalloys

C05 High performance Ti-alloys

C06. Metal Matrix Composites

C07 Space Materials Science and Technology

C08 Ultra-high Temperature Structural Materials and Protective Coatings

C09 Preparation and Characterization

of Advanced Structural Ceramics

C10 Microstructure and

Strengthening-toughening

C11 Strengthening/toughening and

Damage/failure of Metallic Materials

C12 Ordnance Material Science and Technology

C13 Advanced Steels

C14 Thermo-kinetics of Structural Materials

C15 High-performance Cement and Concrete

C16 Performance and Evaluation of Materials under Extreme Environments

C17 Cryogenic Materials

C19 Refractory Metal Materials

D. Functional Materials

D01 Metamaterials and Multifunctional Materials

D02 Multiferroic Materials

D03 Amorphous and High-entropy Alloys

D04 Materials and Devices in Extreme Conditions

D05 Smart Materials

D06 Advanced Microelectronic and

Optoelectronic Materials

D07 Biomedical Materials

D08 Nanoporous Metals

D09 Fiber Materials and Composite
Technology

D10 Polymer Materials

D11 Electronic Materials and
Microsystems

D12 Advanced Magnetic Functional
Materials

D13 Hydrogel Materials

D14 Carbon Dots Functional Materials

D15 Micro-Nano Energy Materials and
Devices

D16 Superconducting Materials and
Applications

D17 Smart Sensing Functional
Materials and Devices

D18 Bio-inspired Materials

D19 Liquid Metal Materials

D20 Adsorption and Catalysis in Porous
Materials

D21 Multiscale Crystalline Electric and
Optical Materials and Devices

D22 Advanced Ceramic Materials

D23 Intelligent Medical Materials and

Devices

D24 Functional Molecular Materials and
Devices

D25 Photonic Materials and Devices
Devices

D27 Two-dimensional Materials and
Devices

D28 Dual-Carbon Ecological and
Healthy Functional Materials

D29 Porous Materials

D30 Advanced Semiconductor
Photoelectric Materials and Devices

D31 Advanced Electrical Material
Electrical Insulation Technology and
Applications

D32 Piezotronics and Self-power
Intelligent

D33 Super-Hard Materials and Their
Products

D34 Functional Films

D36 Thermal Management Materials

D37 Quantum Materials

**E. Materials Simulation, Preparation,
and Evaluation**

E01 Advanced Processing Technology
of Materials

E02 Analysis and Characterization of Materials Interface & Surface

E03 Phase-separation Metallurgy and Materials

E04 Advanced Solidification Theory and Technology

E05 Materials' Performance and Structure Safety

E06 Materials Genome

E07 Additive Manufacturing Materials

E08 Ultrasonic Materials Science and Technology

E09 Surface Engineering of Advanced Materials

E10 Advanced Characterization Technologies of Material Structure and Properties

E11 Aging and Lifetime Prediction of Polymer Materials

E12 Artificial Intelligence for Chemistry and Materials Science

E13 Material Fatigue and Fracture

E15 Micro-Processing/Forming and Crystal Plasticity Method

Z Materials Simulation, Computation, and Design

FB. Frontier Hotspot Youth Forum

FB01 Young Scientist Forum of Environmental Functional Materials

FB02 Youth Forum on New System Batteries

FB03 Youth Forum of Aggregate Materials

FC. Featured Materials Forum

FC01 Forum on Innovative Development of IC Materials

FE01 Materials Education Forum

FJ Materials Journal Forum

SUBMISSION AND PUBLICATION

Abstract Submission

1. The language of the abstract should be in English.
2. Paper abstracts must be submitted on the official website of the conference as prompted before 17:00 on May 21, 2024. The abstracts of the papers will be accepted after review by the academic committee and each symposium, and an electronic abstract collection of papers will be produced.
3. The abstract must be complete and must include: the main information on the

materials and research techniques used, the main results obtained, the main conclusions drawn, etc.

4. The abstract content should not include figures, tables, formulas, etc.

5. Abstracts are only used for this conference.

6. Before submitting the abstract, you need to click [Registration] on the left to select the registration type, but you don't need to pay the fee immediately and just close it. After selecting the registration type, you can submit abstracts according to your circumstances.

Publication of Full Papers

1. The full papers that are in line with the theme of the conference and have not been published in journals or other conferences can be submitted. The full papers must be submitted in English.

2. After being reviewed by the academic committee of the conference, the accepted papers will be published in the following conference proceedings.

Journal of Physics: Conference Series

Springer Proceedings in Materials

Excellent papers can be recommended to the following journals.

Progress in Natural Science: Materials International

Advanced Fiber Materials

Journal of Materials Science & Technology

3. The paper publishing service is for participants who have paid the registration fee, and after the paper is accepted, the page charge is required.

4. When submitting the full paper, be sure to note the selected journal. Otherwise, the conference proceedings will be the default publications.

5. The deadline for full paper submission is July 11, 2024.

REGISTRATION INFORMATION

Registration

Each attendee must register and pay online through the website <https://cmc2024.scimeeting.cn/en>.

You can submit abstracts and book hotel via the conference website.

Registration fee

The registration fee Includes: access to all symposia, access to all poster sessions, access to exhibition, access to workshops, conference program, lunches from July 9 to July 11, coffee breaks. Students have to give evidence of their status on the registration form.

➤ **Full Rate**

Before June 21, 2024	290 USD
June 21, 2024 to July 7, 2024	360 USD
July 7, 2024 to July 11, 2024	400 USD

➤ **Student Rate**

Before June 21, 2024	150 USD
June 21, 2024 to July 7, 2024	220 USD
July 7, 2024 to July 11, 2024	260 USD

Methods of Payment

➤ **Online Payment**

Through the conference website, you can pay the registration fee by credit card.

➤ **On-site Registration**

Attendees are requested to pay by credit card on the registration day.

CONTACT INFORMATION

Conference Secretariat

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