

International Workshop on Data-driven Computational and Theoretical Materials Design (DCTMD)

“Unlocking the AI Future of Materials Science”

October 9-13, 2024 Shanghai, China



First-round Announcement

**International Workshop on Data-Driven Computational and Theoretical
Materials Design (DCTMD)
October 9-13, 2024, Shanghai, China**

Dear Colleagues and Friends,

We are thrilled to announce the upcoming **International Workshop on Data-Driven Computational and Theoretical Materials Design (DCTMD2024)**, a premier event that aims to convene leading minds in the field of materials science to explore the latest advancements and innovations driven by data, computation, theory, and experiment.

Event Details:

- **Date: October 9-13, 2024**
- **Venue: Grand Central Hotel Shanghai (上海大酒店)**
505 Jiujiang Road, Shanghai, China, 200001
- **Website of DCTMD2024: <https://dctmd2024.scievent.com/>**

Theme:

DCTMD2024 focuses on "Unlocking the AI Future of Materials Science", highlighting the transformative impact of artificial intelligence (AI), high-throughput experimental techniques, and advanced computing on materials discovery and design.

- ✦ **Data Management and Stewardship for Materials**
- ✦ **Artificial Intelligence (AI) for Materials Design**
- ✦ **AI/Autonomous/Self-Driving/Automatic Materials Lab**
- ✦ **High-Throughput Computational and Experimental Materials Design**
- ✦ **Advanced Computing for Materials Design**

Plenary/Invited Speakers:

We are honored to have a distinguished lineup of speakers who are at the forefront of their respective fields, including:

Plenary speakers:

- ◆ **Roberto Car (Princeton University, USA)**
- ◆ **Yanming Ma (Jilin University, China)**
- ◆ **Berend Smit (Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland)**
- ◆ **Chris Wolverton (Northwestern University, USA)**
- ◆ **Lucas Foppa (Fritz Haber Institute (FHI) of the Max Planck Society, Germany)**
- ◆ **Xiaonan Wang (Tsinghua University, China)**

Invited speakers:

- ◆ **T. Daniel Crawford (Virginia Tech, USA)**
- ◆ **Jun Jiang (University of Science and Technology of China, China)**
- ◆ **Alexandre Tkatchenko (Luxembourg University, Luxembourg)**
- ◆ **Yuanyuan Zhou (Technical University of Denmark (DTU), Denmark)**
- ◆ **Linfeng Zhang (DP Technology, China)**
- ◆ **Karmen Čondić-Jurkić (Open Molecular Software Foundation, New Zealand)**
- ◆ **Yong Xu (Tsinghua University, China)**
- ◆ **Junfeng Qiao (Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland)**
- ◆ **Runhai Ouyang (Shanghai University, China)**
- ◆ **Taylor Sparks (The University of Utah, USA)**
- ◆ **Lauren Takahashi (Hokkaido University, Japan)**
- ◆ **Timon Rabczuk (The Bauhaus-Universität Weimar, Germany)**
- ◆ **Xiaoying Zhuang (Leibniz University Hannover, Germany)**
- ◆ **Zhipan Liu (Fudan University, China)**
- ◆ **Carla Verdi (The University of Queensland, Australia)**
- ◆ **Sergey V. Levchenko (Skolkovo Institute of Science and Technology (Skotech), Russia)**
- ◆ **Turab Lookman (AiMaterials Research LLC, USA)**
- ◆ **Annette Trunschke (Fritz Haber Institute (FHI) of the Max Planck Society, Germany)**
- ◆ **Keisuke Takahashi (Hokkaido University, Japan)**
- ◆ **Rampi Ramprasad (Georgia Tech, USA)**
- ◆ **Lixue Cheng (Microsoft Research AI for Science Lab)**
- ◆ **Jungho Shin (Korea Research Institute of Chemical Technology, South Korea)**

...More speakers will be added soon...

More details about speaker's bio and abstract can be found at "<https://dctmd2024.scievent.com/speaker.html>".

Important Dates:

- Online registration opens: **March 28, 2024**
- Early bird registration closes: **July 1, 2024**
- Abstract submission starts: **May 1, 2024**
- Abstract submission closes: **September 15, 2024**

Call for Registration and Abstract:

Online registration starts from March 28, 2024, through our workshop website. Early registration is encouraged to take advantage of discounted rates. Early bird registration closes on July 1, 2024.

We invite researchers, practitioners, and students to submit abstracts for oral contributed talks or posters that align with the workshop's themes. Very limited contributed talks are available with the possibility of upgrade to invited talks after evaluation. Abstract submission opens on May 1, 2024. For submission guidelines and more information, please visit our website. For further information, contact Dr. Runhai Ouyang via an email: DCTMD2024@163.com.

Why Attend?

DCTMD2024 offers an unparalleled opportunity to engage with cutting-edge research, foster collaborations with peers from around the globe, and hear from innovators leading the charge in data-driven materials science. Join us for inspiring talks, hands-on workshops, and valuable networking in the vibrant city of Shanghai.

We look forward to welcoming you to Shanghai in October 2024 for what promises to be an exciting and enriching experience at DCTMD2024.

Warm regards,

Workshop Chairs of DCTMD2024:

- Matthias Scheffler (Fritz Haber Institute, Germany)
- Tong-Yi Zhang (Shanghai University, China)

Program Organizers of DCTMD2024:

- Matthias Scheffler (Fritz Haber Institute, Germany)
- Yi Liu (Shanghai University, China)
- Markus Buehler (Massachusetts Institute of Technology, US)
- Rika Kobayashi (Australian National University, Australia)

Local Organizing Committee of DCTMD2024:

- Jinchang Zhang, Lingyan Feng, Wei Ren, Junyi Ge, Yi Liu, Runhai Ouyang, Quan Qian, Zihan Wang (SHU, China)