



2nd International Conference on MXenes

May 10-12th, 2019 Beijing, China

Conference Website: www.mxenes2019.org

Dear Colleagues,

You are warmly invited to attend the 2nd International Conference on MXenes to be held in Beijing, China, on May 10-12, 2019. The conference will be hosted by Beijing University of Chemical Technology.

Two-dimensional (2D) materials became the focus of material research in the past decade owing to their unique chemical, electronic, optical, mechanical, and thermal properties that are different from their bulk counterparts. These unique properties are, in part, the result of quantum confinement effect in the atomically-thin 2D layers and are strongly dependent on the layer thickness and composition. Moreover, the properties of 2D materials are highly tunable by chemical doping, strain engineering, and external fields.

While graphene is still remaining the most widely researched 2D material, the discovery of 2D titanium carbide (Ti_3C_2) by Drexel University researchers in 2011 added a new family of materials known as MXenes to the 2D world. In general, the term MXenes refers to a very large family of 2D transition metal carbides, carbonitrides, and nitrides with the formula $\text{M}_{n+1}\text{X}_n\text{T}_x$, where M represents an early transition metal, X is carbon and/or nitrogen, and T stands for surface terminations (such as OH, O, Cl, or F).

Research on MXenes is ongoing in more than 40 countries, with China leading in the number of publications. Therefore, it's not surprising that the 1st International Conference on MXenes for Energy was organized at Jilin University in 2018. It attracted about 200 researchers. The 2nd International Conference on MXenes is expected to have twice the number of attendees and will also cover all areas of applications of MXenes, including but not limited to energy storage and generation, electromagnetic interference shielding, antennas, transparent conductors, gas and pressure sensors, water purification, gas separation membranes, photo- and electrocatalysis, medicine and plasmonics. Due to a large variety of transition metals and surface functionalities, MXenes' properties can be tuned by selecting combinations of transition metals, X elements, and controlling their surface chemistries. There are endless and quickly expanding opportunities for producing MXenes with desirable properties.

Leading Chinese and foreign researchers working on MXenes will be giving plenary and invited talks at the conference. We hope that this conference will provide a forum for scientists from all over the world, both theorists and experimentalists, to meet and share information about synthesis, fundamental properties and applications of this quickly expanding family of 2D materials.

We look forward to seeing you in Beijing.

Sincerely yours,

Prof. Yury Gogotsi (conference co-chair)

Drexel University and Jilin University

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Prof. Bin Xu (conference co-chair)

Beijing University of Chemical Technology

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1. Conference Topics

- (1) Synthesis and preparation of MXenes
- (2) Structure and properties of MXenes
- (3) MXenes for energy and conversion
- (4) MXenes for environment and catalysis
- (5) MXenes for biology and medicine
- (6) MXenes for optics and electronics

2. Notes for Abstract Submission

(1) Original research contributions in each of above fields are welcome (including both, experimental and computational research). The abstracts should have clear viewpoints, accurate and complete data, refined text and clear structure, which should be written in English within one page and in accordance with the given abstract template.

(2) The conference website is www.mxenes2019.org, which can be used for online registration and abstract submission. Please provide the contact information of the corresponding author (phone number, address and email) and select either oral (lecture) or poster presentation. The organizing committee will evaluate all presentations and select a part of the abstracts as oral lecture.

(3) The conference will set up the excellent poster award. The award recipients will be given the certificate and bonus.

3. Key Dates and Agenda

(1) Key Dates

Abstract submission deadline: April 1, 2019

Notification of abstract acceptance: April 5, 2019

Early bird registration and payment deadline: April 1, 2019

(2) Agenda

May 10, 2019 (Friday) All day Arrival and Registration

May 11, 2019 (Saturday) Morning: Opening Ceremony and Plenary Lectures
Afternoon: Forum Lectures and Poster Presentations

May 12, 2019 (Sunday) Morning: Forum Lectures
Afternoon: Forum Lectures and Closing Ceremony

4. Registration

(1). Registration Fee

	Early Bird Fees (Before April 1)	Regular Fees
Student	\$ 230	\$ 270
Non student	\$ 380	\$ 420

(2) Payment

The conference registration fee is charged by the host organization, Beijing University of Chemical Technology, by bank transfer or card payment during on-site registration.

Bank of deposit: Sakura sub-Branch, Bank of Beijing

Account Name: Beijing University of Chemical Technology

Account number: 01090504300120105029689

Please note in the postscript "MXene + attendee name"

5. Travel & Accommodation (For details, please see the website)

(1) Recommended hotels for reservation

Beijing Guizhou Hotel:

Book by yourself and provide the name of the meeting to enjoy the agreed price.

Address: 18 Yinghua West Road, Chaoyang District, Beijing

Conference special price: Standard Room (2 beds) ¥ 618 /day, Superior 1-bed Room ¥ 638 /day

Tel: 010-58109988 <http://www.beijingguizhouhotel.com/en/>

Beijing University of Chemical Technology Hostel

Please send an email to Ning Qiao for group booking. The number of rooms is limited and we book the room by the record of the emails.

Address: Inner the west gate of Beijing University of Chemical Technology.

Conference special price: Standard Room ¥ 300~360 /day

Tel: 010-64435232

Tips: The nearby hotels are in short supply. Please make reservation in advance.

(2) Travel

The conference will be held at Beijing University of Chemical Technology (East Campus). Please note that the conference will not arrange pick-up service from airport and return flight ticket booking.

Address: No.15, North 3rd Ring East Road, Chaoyang District, Beijing.

The traffic routes are detailed on the conference website.

6. Contact

Qizhen Zhu (lecture, poster), zhuqz@mail.buct.edu.cn, 13910853347

Ning Qiao (registration, accommodation), qiaoning@mail.buct.edu.cn, 18901173630

Appendix:

Plenary Speakers:

Yury Gogotsi, Drexel University

Chong Min Koo, Korea Institute of Science and Technology

Masashi Okubo, The University of Tokyo

Jieshan Qiu, Beijing University of Chemical Technology

Vivek Shenoy, University of Pennsylvania

Invited Speakers:

Babak Anasori, Drexel University

Majid Beidaghi, Auburn University

Yu Chen, Shanghai Institute of Ceramics, CAS

Yu Gao, Jilin University

Qing Huang, Ningbo Institute of Industrial Technology, CAS

Neng Li, Wuhan University of Technology

Hui Pan, University of Macau

Ho Seok Park, Sungkyunkwan University

Per Persson, Linkoping University

Shizhang Qiao, University of Adelaide

Joselito Razal, Deakin University

Xiahan Sang, Wuhan University of Technology

Patrice Simon, Paul Sabatier University

Li Song, University of Science and Technology of China

Zhengming Sun, Southeast University

Zhimei Sun, Beihang University

Xinyong Tao, Zhejiang University of Technology

Pengbo Wan, Beijing University of Chemical Technology

Guoxiu Wang, University of Technology Sydney

Haihui Wang, South China University of Technology

Xiaohui Wang, Institute of Metal Research, CAS

Bo Weng, Wiley

Zhongshuai Wu, Dalian Institute of Chemical Physics, CAS

Yu Xie, Jilin University

Jun Yan, Harbin Engineering University

Quanhong Yang, Tianjin University

Xiaowei Yin, Northwestern Polytechnic University

Haobin Zhang, Beijing University of Chemical Technology

Xitian Zhang, Harbin Normal University

Aiguo Zhou, Henan Polytechnic University

Jun Zhou, Huazhong University of Science and Technology

Jianfeng Zhu, Shaanxi University of Science & Technology