

自然大会 相约蓉城 新材料 新突破



自然学术会议

新兴材料与器件：电子结构与性能

时间地点：2019 年 4 月 12-14 日，成都

主办单位



大会内容

本次自然会议由自然杂志社与电子科技大学联合主办，将于 2019 年 4 月 12 至 14 日在成都召开。新兴材料是材料工业的先导，将引领未来科学技术的颠覆性发展与产业变革。此次会议将聚焦新材料的发现与基础研究，重点讨论预测、设计并合成新材料的实验手段和理论方法，包括高压合成、单晶生长、拓扑化学反应和理论计算。会议的另一个核心在于利用先进表征手段理解材料的电子结构，

特别是电子结构与材料性能和可能的器件应用之间的关系。

为了推动超导、晶体、电子与能源材料等在内的新兴材料方面的技术进展，截止目前，大会已邀请到东京工业大学 Hideo Hosono 教授、美国休斯顿大学 Paul C. W. Chu 教授、美国西北大学 Kenneth R. Poeppelmeier 教授、清华大学薛其坤教授、美国乔治华盛顿大学 Russell J. Hemley 教授、俄罗斯斯科尔科沃科技学院 Artem Abakumov 教授等 100 余位国内外知名专家为与会人员带来前沿学术报告。会议旨在打造新兴材料领域国际顶端水平的学术会议，推进新兴材料研究与最新技术手段的合作，为全球材料科研人员提供一个国际化平台。

会议议题

1. 新的合成和计算方法，包括高压合成，拓扑化学反应，单晶生长，和理论计算。

Novel synthetic and computational methods for the discovery of new materials, including high pressure synthesis, topochemical reaction, single crystal growth and theoretical calculations.

2. 新兴材料的电子结构和性能之间的相关性，包括超导，电子化合物，二维，能源材料与器件。

The correlation between electronic structures and physical properties in emerging materials such as superconductors, electrides, 2D materials, optical crystals, energy materials and related devices.

3. Young Scholars Forum (青年学子论坛)：电子科技大学将提供全部费用。

组委会

大会主席：

李言荣院士，电子科技大学电子薄膜与集成器件国家重点实验室主任，四川大学

校长

李斌，电子科技大学

张万里，电子科技大学

熊杰，电子科技大学

Olga Bubnova, *Nature Nanotechnology*

Yaoqing Zhang, *Nature Communications*

Wenjie Sun, *Nature Nanotechnology*

David Schilter, *Nature Reviews Chemistry*

Wei Fan, *Nature Communications*

部分演讲嘉宾

Plenary Speakers

- 1 Paul C. W. Chu, University of Houston, USA
- 2 Hideo Hosono, Tokyo Institute of Technology, Japan
- 3 Kenneth R. Poeppelmeier, Northwestern University, USA
- 4 Qikun Xue (薛其坤), Tsinghua University, China
- 5 Russell Hemley, George Washington University, USA
- 6 Artem Abakumov, Skoltech, Russia

Invited Speakers

- 1 Peter Bøggild, Technical University of Denmark, Denmark
- 2 Ivan Bozovic, Brookhaven National Laboratory, USA
- 3 Xianhui Chen (陈仙辉), University of Science and Technology of China, China
- 4 Hong Ding (丁洪), Beijing National Laboratory for Condensed Matter Physics, China
- 5 Yang Ding (丁阳), HPSTAR, China
- 6 Xiangfeng Duan, UCLA, USA
- 7 Xinliang Feng, TU Dresden, Germany
- 8 Michael A. Hayward, University of Oxford, UK
- 9 Duanwei He (贺端威), Sichuan University, China
- 10 Yu Huang, UCLA, USA
- 11 Yoshihiro Iwasa, University of Tokyo, Japan
- 12 Hiroshi Kageyama, Kyoto University, Japan

- 13 Andras Kis, [École Polytechnique Fédérale de Lausanne (EPFL)], Switzerland
- 14 Bingbing Liu (刘冰冰), Jilin University, China
- 15 Yunfeng Lu, UCLA, USA
- 16 Yanming Ma (马琰铭), Jilin University, China
- 17 Maosheng Miao, California State University Northridge, USA
- 18 Shilie Pan (潘世烈), The Institute of Physical & Chemical Technologies, China
- 19 Chris J. Pickard, University of Cambridge, UK
- 20 Zhifeng Ren, University of Houston, USA
- 21 Rodney S. Ruoff, UNIST, Korea
- 22 Takasada Shibauchi, University of Tokyo, Japan
- 23 Yongjun Tian (田永君), Yanshan University, China
- 24 Chunsheng Wang, University of Maryland, USA
- 25 Kazunari Yamaura, NIMS, Japan
- 26 Wanli Yang, Lawrence Berkeley National Laboratory, USA
- 27 Huijun Zhao, Griffith University, Australia
- 28 Yusheng Zhao (赵予生), SUSTech, China
- 29 Jianshi Zhou, University of Texas at Austin, USA
- 30 Fuchun Zhang (张富春), University of Chinese Academy of Sciences
- 31 Hai-Hu Wen (闻海虎), Nanjing University
- 32 Shiyan Li (李世燕), Fudan University
- 33 Jiangping Hu (胡江平), Institute of Physics CAS
- 34 Jun Zhao (赵俊), Fudan University
- 35 Matteo Minola, Max-Planck-Institut für Festkörperforschung
- 36 Nanlin Wang (王楠林), Peking University
- 37 Jinfeng Jia (贾金锋), Shanghai Jiao Tong University
- 38 Zheng-Yu Weng (翁征宇), Tsinghua University
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- 41 Zhu'an Xu (许祝安), Zhejiang University
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- 45 Jian Wang (王健), Peking University
- 46 Hong Yao (姚宏), Tsinghua University
- 47 Jun Huang (黄俊), The University of Sydney
- 48 Guanglei Cui (崔光磊), Qingdao Institute of Bioenergy and Bioprocess Technology
CAS

- 49 Xinbo Zhang (张新波), Changchun Institute of Applied Chemistry CAS
- 50 Yong Lei (雷勇), Technische Universität Ilmenau
- 51 Shanqing Zhang (张山青), Griffith University
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- 64 Kaiyou Wang (王开友), Institute of Semiconductors CAS
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- 66 Weida Hu (胡伟达), Shanghai Institute of Technical Physics CAS
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- 69 DLVK Prasad, Indian Institute of Technology Kanpur
- 70 Yangfan Lu (鲁杨帆), Toyko Institute of Technology
- 71 Ling Chen (陈玲), Beijing Normal University
- 72 Guoyu Yang (杨国昱), Beijing Institute of Technology
- 73 Ning Ye (叶宁), University of Chinese Academy of Sciences
- 74 Zhanggui Hu (胡章贵), Tianjin University of Technology
- 75 Jianggao Mao (毛江高), Fujian Institute of Research on the Structure
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- 91 Gang Chen (陈钢), Fudan University
- 92 Guo-qing Zheng (郑国庆), Institute of Physics CAS
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参会咨询：0755-23101032 (张女士/贾女士)

赞助咨询：18908220373 (熊杰教授, 电子科技大学) / 18928472046(张先生)

大会邮箱：natureconference@uestc.edu.cn