



# HKU-ZIRI 2020 Innovation Workshop – I: Advanced Materials

**08:50-18:30 November 11, 2020, via. ZOOM ID (No registration required):**

<https://hku.zoom.us/j/98368336085?pwd=ejhXOHhHZWhvS0Y3bXpCR0ZqdmJqdz09>

(Meeting ID: 983 6833 6085; Password: 877288)

Also at HKU: Room 7-35, 7/F, Haking Wong Building (黃克競樓)

Time	Speaker	Title	Affiliation	Category
Co-Chairs: Profs. Liqiu Wang and Zhengxiao Guo				
08:50-09:00	Organising Chair	Welcome Introduction		
09:00-09:30	Dr. Yutao Li, with John Goodenough	Designing composite polymer electrolytes for all-solid-state Li-metal batteries	University of Texas at Austin, USA	Guest Lecture
09:30-10:00	Prof. Feng Li, with Ruopian Fang <sup>1,2</sup> , Ke Chen <sup>1,3</sup> , Lichang Yin <sup>1</sup> , Zhenhua Sun <sup>1</sup> , Hui-Ming Cheng <sup>1,3,4</sup>	Role of nanocarbon for better lithium batteries  (4 Tsinghua-Berkeley Shenzhen Inst., Tsinghua Univ., Shenzhen.)	1 Shenyang National Lab for Materials Science, Institute of Metal Research, Chinese Academy of Sciences (CAS); 2 University of CAS, Beijing; 3 Shanghai Tech University, Shanghai;	Guest Lecture
10:00-10:30	Prof. Yanlin Song	纳米绿色印刷制造技术	Institute of Chemistry, CAS	Guest Lecture
10:30-11:00	Prof. Mingxin Huang	超高强、高塑、高韧变形配分 (D&P) 钢	HKU/ZIRI	PI Lecture
11:00-11:30	Prof. Hao Chen	基于化学界面工程的先进高强钢设计	Tsinghua University	Guest Lecture
11:30-12:00	Prof. Zuankai Wang	Innovations at interfaces for water-energy nexus	City University of Hong Kong	Guest Lecture

Lunch Break (12:00-13:00)



# HKU-ZIRI 2020 Innovation Workshop - I

## Advanced Materials



Chair: Profs. Mingxin Huang & Liqiu Wang

13:00-13:30	Prof. Qian Yu	Alloying effect on dislocation mechanisms with <i>in-situ</i> and multi-dimensional characterizations	Zhejiang U	Guest Lecture
13:30-13:50	Prof. Liqiu Wang	No more laundry? 衣物免洗終能實現?	HKU/ZIRI	PI Lecture
13:50-14:10	Prof. Zhengxiao Guo	Enhancing effective catalytic sites for energy conversion	HKU/ZIRI	PI Lecture
14:10-14:25	Dr. Ran Du	Hydrogels as energy materials	HKU/ZIRI	Contributed
14:25-14:40	Dr. Hao Wang	Catalyst design for OER	HKU/ZIRI	Contributed
14:40-14:55	Dr. Yizhuang LI	Low density high modulus steels	HKU/ZIRI	Contributed
14:55-15:10	Mr. Zhou WANG	Hydrogen embrittlement of steels	HKU/ZIRI	Contributed
15:10-15:25	Mr. Ming WANG	Novel Mg alloys	HKU/ZIRI	Contributed
15:25-15:40	Dr. Jiaqian Li	Biomimetic Engineered Surfaces for Directional Liquid Navigation 仿生工程表面上的液体定向导航	HKU/ZIRI	Contributed
15:40-15:55	Dr. Xing Han	Design and Application of Durable Slippery Surfaces 耐用润滑表面的设计与应用	HKU/ZIRI	Contributed
15:55-16:10	Dr. Xin Tang	Manipulation of Micro/Nanolitre Fluids with Non-Wetting Interfaces 多尺度流固界面对微纳流体的无损操控	HKU/ZIRI	Contributed
16:10-16:20	Dr. Edmund Tse	A New Ecofriendly Strategy to Fabricate Graphene-supported Nanoparticles with Zero Liquid Waste Emission	HKU/ZIRI	PI Lecture
16:20-16:40		General Discussion / Break	All	

Linked with...



# HKU Science Distinguished Lecture

New ZOOM Link (Please register to log in):

<https://bit.ly/3o9Glso>

17:00- **Prof. Sir Richard Structure, Dynamics and Reactivity in Catalytic UCL/London Keynote**  
18:30 **Catlow, MAE, FRS Systems and Energy Materials**

Moderator: Prof. Zhengxiao Guo (HKU Chem, HKU-ZIRI)

Introduction by Prof. Matthew Evens (HKU Dean of Science)

Invited Panelists:

Prof. Huiming Cheng (Academician/CAS, Tsinghua University),  
Prof. Junwang Tang (Director of Materials Hub, University College London),  
Prof. Lianzhou Wang (ARC Laureate Fellow, University of Queensland),  
Prof. Alex Djurišić (HKU Physics, Vice Dean-Research / Faculty of Science),  
Prof. Hongzhe Sun (HKU Chemistry, Research Director of Division – Chemistry),  
Prof. Yao Wang (HKU Physics)  
Dr. Jinyao Tang (HKU Chemistry, Associate Professor)  
Dr. Edmund Tse (HKU Chemistry, Assistant Professor)

Summary by Prof. Hongzhe Sun (Research Director of Division – Chemistry)