

## Session 4: Emerging Optoelectronic and Energy Devices

Introduction: This sub-forum brings together a panel of young experts in the field of emerging optoelectronics, with research topics ranging from thermoelectric and solar energy harvesters, to light-emitting devices.

○ Date: January 5, 2023

Time	Topic	Speaker
13:30-13:55	Wave-like nature of phonons in hybrid perovskite MAPbI <sub>3</sub>	Dr. Wee-Liat Ong Associate Professor ZJU-UIUC
13:55-14:20	Quantum dot luminescent materials and their LEDs application	Dr. Xingliang Dai Researcher of Zhejiang University
14:20-14:45	Strain coupling and phase transitions in perovskites	Dr. Dexin Yang Associate professor at Hangzhou Dianzi University
14:45-15:10	Toward solar energy conversion and storage: Design of efficient optoelectronic energy devices	Dr. Meng Zhang Researcher of Zhejiang University
15:10-15:35	Synthetic and spectroscopic study of colloidal quantum dots	Dr. Runchen Lai staff scientist of Westlake University
15:35-16:00	Understanding the electrical-excitation dynamics of quantum-dot light-emitting diodes	Dr. Yunzhou Deng Postdoctoral researcher at Zhejiang University

