Program of Session E

2D Materials and Technologies

E1: August 4 (Mo Room: 306	ust 4 (Monday), 14:00-15:30	
Chair: Lei Liu		
14:00-14:30	E01 (Invited) Single crystal growth and properties of layered topological materials Gang Wang, Institute of Physics, Chinese Academy of Sciences, CHINA	
14:30 -15:00	E02 (Invited) Phase transition and ferroelectricity in two-dimensional chalcogenides Jiong Zhao, The Hong Kong Polytechnic University, CHINA	
15:00-15:15	E03(Oral) Preperation of two-dimensional assembled films Lei Dong, Northwestern Polytechnical University, CHINA	
15:15-15:30	E04 (Oral) Special Optical Responses of Twisted Bi ₂ O ₂ Se Moiré Superlattices Jiaxing Wang, Beijing University of Technology, CHINA	

E2: August 4 (Monda	E2: August 4 (Monday), 16:00-17:30	
Room: 306		
Chair: Jiong Zhao		
16:00-16:30	E05 (Invited)	
	2D Amorphous Materials and Devices	
	Lei Liu, Peking University, CHINA	
16:30-17:00	E06 (Invited)	
	Effects of Co Substitution Single Crystals of Fe ₃ GaTe ₂ grown by the chemical vapor	
	transport method	
	Daniel A Mayoh, Department of Physic, University of Warwick, Coventry, CV4 7AL,	
	UNITED KINGDOM	
17:00-17:15	E07 (Oral)	
	Out-of-Plane Ferroelectricity and Piezoelectricity in Few-Layer Tin Disulfide Nanobelts	
	Exfoliated from an Inorganic-Organic Hybrid	
	Shuai Sun, Guangdong University of Technology, CHINA	
17:15-17:30	E08 (Oral)	
	SnSe nanosheet arrays for NO ₂ sensor and sodium-ion battery anode	
	Jikang Jian, Guangdong University of Technology, CHINA	

E3: August 5 (Tuesday), 11:00-12:30	
Room: 306	

1400III. 500	
Chair: Zhiwen Shi	
11:00-11:30	E09 (Invited)
	Implementation and Application of on-chip Nonlinear Photodetectors
	Xiaoqing Chen, Northwestern Polytechnical University, CHINA
11:30-12:00	E10 (Invited)
	Observation of ferroelectricity in undoped HfO ₂ down to 0.5 nm
	Hui Li, Institute of Physics, CAS, CHINA
12:00-12:30	E11 (Invited)
	2D porous organic frameworks for anode-lean sodium metal batteries
	Fei Xu, Northwestern Polytechnical University, CHINA

E4: August 5 (Tues	: August 5 (Tuesday), 14:00-15:45	
Room: 306		
Chair: Fei Xu		
14:00-14:30	E12 (Invited)	
	Roll-to-roll Mechanical Exfoliation for Cost-Effective Production of van der Waals	
	Nanosheets	
	Andres Castellanos-Gomez, Spanish National Research Council, SPAIN	
14:30-15:00	E13 (Invited)	
	Homochiral carbon nanotube van der Waals crystals	
	Zhiwen Shi, Shanghai Jiao Tong University, CHINA	
15:00-15:30	E14 (Invited)	
	Ionic two-dimensional materials	
	Xing Zhou, Huazhong University of Science and Technology, CHINA	
15:30-15:45	E15 (Oral)	
	Modification of 2D graphite-C ₃ N ₄ and its photocatalytic production of hydrogen peroxide	
	Kun Zheng, Beijing University of Technology, CHINA	

E5: August 5 (Tuesday), 16:00-17:15	
Room: 306	uay), 10.00-17.13
Chair: Kun Zheng	
16:00-16:30	E16(Invited)
	Space-Confined Chemical Vapor Transport Synthesis of Multicomponent 2D Atomic
	Crystals for Future Electronic and Optoelectronic Devices
	Chengyan Xu, Harbin Institute of Technology (Shenzhen), CHINA
16:30-17:00	E17 (Invited)
	New carbon materials created by high pressure
	Mingguang Yao, Jilin University, CHINA
17:00-17:15	E18 (Oral)
	Epitaxial hBN growth on Al ₂ O ₃ : unveiling the hidden role of g-C ₃ N ₄ as a buffer layer
	Jakub Iwański, Faculty of Physics, University of Warsaw, POLAND

E6: August 6 (Wednesday), 9:00-10:30

Room: 306 Chair: Bo Song

9:00-9:30 E19 (Invited)

Van der Waals ferroelectrics with octahedral structure and their tunability

Yang Li, Harbin Institute of Technology, CHINA

9:30-10:00 **E20** (Invited)

Defect Engineering for Constructing Stable Cathode of Rechargeable Magnesium

Batteries

Shiqi Ding, Qingdao University of Science and Technology, CHINA

10:00-10:30 E21 (Invited)

Design, fabrication and deviceization of two-dimensional transition metal chalcogenide

electronic materials

Zhihua Zhang, Dalian Jiaotong University, CHINA

E7: August 6 (Wednesday), 11:00-12:00

Room: 306

Chair: Zhihua Zhang

11:00-11:30 **E22** (Invited)

Defects Engineering on Thin Indium Selenide Film

Qinghua Zhao, Northwestern Polytechnical University, CHINA

11:30-11:45 E23 (Oral)

Pseudo-Symmetric Epitaxy for Scalable Growth of Uniform Two-Dimensional

Ferroelectric α-In₂Se₃ Monolayer

Xiaotian Zhang, Shanghai Jiao Tong University, CHINA

11:45-12:00 E24 (Oral)

Magnetic Compensation Modulation and Multifunctional Magneto-Optical Film

Construction in Bi: RIG Systems

Hanxu Zhang, Harbin Institute of Technology, CHINA