

## 7. 极端条件晶体材料分会报告日程表

Afternoon, 26th Sept.		
时间	内容	主持人
会场: 一层 1 号厅 <span style="border: 1px solid red; padding: 2px;">Room 1, 1<sup>st</sup> Floor</span>		
14:00-14:25 Keynote	Radomir Kuzel (Prague, IUCr 2020 Chair) Study of strongly oriented thin films with potential magnetoelectric effect	<span style="border: 1px solid red; padding: 2px;">Chair</span> Changqing Jin and Youwen Long
14:25-14:50 Keynote	Yue Chen (HKU, HongKong, China) Novel high-pressure IV-VI compounds from a combined theoretical and experimental study	
14:50-15:15 Keynote	Toshimori Sekine (Kyushu, Japan) Laser-shocked materials at extreme conditions	
15:15-15:40 Keynote	Rukang Li (IPCTCAS, Beijing, China) Magnetic Order of Gaudefroyite Crystal with a Frustrated Kagome Lattice	
15:40-16:00	茶歇 (Coffee Break 20 Minutes)	
16:00-16:25 Keynote	Jian Sun (NJU, Nanjing, China) Phase transitions and materials design under high pressure	<span style="border: 1px solid red; padding: 2px;">Chair</span> A. Oganov and Haozhe Liu
16:25-16:40 Invited	Ming Zhang (CAEP, Mianyang, China) Shocking impact on synthetic and radiation damaged titanite	
16:40-16:55 Invited	Guoqiang Zhao (IOPCAS, Beijing, China) Crystal Synthesis, High Pressure Research and Spin Polarization Measurements of "BZA" Based Diluted Magnetic Semiconductor	

16:55-17:10 Invited	Liuxiang Yang (HPSTAR, Beijing, China) Unravelling the Mystery of Cool-Compressed Graphite	A.Oganov and Haozhe Liu
17:10-17:25 Invited	Manrong Li (ZSU, Guangzhou, China) Polymorphs of Small A-site $A_2BB'O_6$ at High Pressure	
17:25-17:40 Invited	Hongming Weng (IOPCAS, Beijing, China) Spontaneous Ferroelectric Distortion Driven Weyl Semimetal in Oxide $HgPbO_3$	
17:40-17:55 Invited	Wenjun Luo (NJU, Nanjing, China) Efficient and low-cost photoelectrocatalytic/electrocatalytic materials for solar water splitting	
18:00-20:00	晚餐 Dinner Time	
<b>Morning, 27th Sept. (Section 1)</b>		
时间	内容	主持人
会场： 二层 15 会议室 <span style="border: 1px solid red; padding: 2px;">Room 15, 2<sup>nd</sup> Floor</span>		
8:30-8:45 Invited	Genshui Wang (ISMCAS, Shanghai, China) Phase transition of ferroelectrics under hydrostatic pressure	<span style="border: 1px solid red; padding: 2px;">Chair</span> Jijun Zhao and Yang Ding
8:45-9:00 Invited	Hanyu Liu (JLU, Changchun, China) Predict high superconducting materials at high pressure via CALYPSO	
9:00-9:15 Invited	Qingyang Hu (HPSTAR, Beijing, China) Probing the crystal structure relation between $Fe_2O_3$ and $FeO_2$	
9:15-9:30 Invited	Yonghao Han (JLU, Changchun, China) Study on the electrical transport properties of silver halides	

9:30-9:45 Invited	Guanjun Xiao (JLU, Changchun, China) Studies of Metal Halide Perovskite Nanocrystals at High Pressure	
9:45-9:55 Oral	Jun Zhang (HPSTAR, Beijing, China) Ba <sub>9</sub> V <sub>3</sub> Se <sub>15</sub> : a Novel Compound with Spin Chains	
9:55-10:05 Oral	Haiyan Zhen (HPSTAR, Beijing, China) Understanding Chemical Reaction under High Pressure by Method beyond Crystallography	
10:05-10:25	茶歇 (Coffee Break 20 Minutes)	
10:25-10:40 Invited	Bo Zou (JLU, Changchun, China) Pressure Induced Emission Enhancement	<div style="border: 1px solid red; display: inline-block; padding: 2px;">Chair</div> Xiangfeng Zhou and Jinguang Cheng
10:40-10:55 Invited	Yanpeng Qi (SUST, Shanghai, China) Pressure-induced superconductivity and topological quantum phase transitions in topological materials	
10:55-11:10 Invited	Sen Yang (XJTU, Xian, China) Crystal symmetry breaking at ferromagnetic transition	
11:10-11:25 Invited	Wenming Li (IOPCAS, Beijing, China) Synthesis, structure, and properties of new layer oxyselenide Ba <sub>2</sub> CuO <sub>2</sub> Cu <sub>2</sub> Se <sub>2</sub>	
11:25-11:40 Invited	Zhipeng Gao (CAEP, Mianyang, China) 高压结构调控与功能材料性能研究	
11:40-11:50 Oral	Xiao Wang (IOPCAS, Beijing, China) A-site controlled high-temperature ferrimagnetic semiconductivity and half-metallicity in ACu <sub>3</sub> Fe <sub>2</sub> Os <sub>2</sub> O <sub>12</sub> (A = Ca, Na)	
11:50-12:00 Oral	Shuyu Ning (HFUT, Hefei, China) Preparation and Properties of High-quality Ce <sub>x</sub> La <sub>y</sub> Pr <sub>y</sub> Nd <sub>0.05</sub> Gd <sub>0.05</sub> B <sub>6</sub> Single Crystal by Optical Float-zone Technique	

12:05-13:30	午餐 Lunch Time		
<b>Morning, 27th Sept. (Section 2)</b>			
时间	内容	主持人	
会场：一层 1 号厅 <span style="border: 1px solid red; padding: 2px;">Room 1, 1<sup>st</sup> Floor</span>			
8:30-8:45 Invited	Pengwan Chen (BTU, Beijing, China) Dynamic synthesis of graphene nanosheets by shock waves	<span style="border: 1px solid red; padding: 2px;">Chair</span> Fengxia Hu and Xiangang Wan	
8:45-9:00 Invited	Zhebin Wang (CAEP, Mianyang, China) 强激光装置上的极端条件物性实验研究		
9:00-9:15 Invited	Leiming Fang (CAEP, Mianyang, China) CMRR 高压中子衍射技术进展及在高压溶解度研究中的应用		
9:15-9:30 Invited	Jing Wang (IOPCAS, Beijing, China) Spatial Confinement Induced Anomalous Polarity-dependent Field Effect		
9:30-9:45 Invited	Xue Jiang (DLUT, Dalian, China) The Design of New Functional Materials by self-assembling		
9:45-9:55 Oral	Fuping Zhang (CAEP, Mianyang, China) 固体冲击合成过程晶体类型选择性研究		
9:55-10:05 Oral	Jianhong Dai (IOPCAS, Beijing, China) Pentavalent iridium pyrochlore $Cd_2Ir_2O_7$ : A prototype material system for competing crystalline field and spin-orbit coupling		
10:05-10:15 Oral	Hongshan Deng (HPSTAR, Beijing, China) A new insulator-to-metal transition mechanism for $GaTa_4Se_8$		
10:15-10:30	茶歇 (Coffee Break 15 Minutes)		
10:30-10:45 Invited	Qiang Li (THU, Beijing, China) Energy harvesting properties of PLZST single crystal		Fang Peng and Pengwan Chen <span style="border: 1px solid red; padding: 2px;">Chair</span>

10:45-11:00 Invited	Huaidong Jiang (SUST, Shanghai, China) High-resolution coherent diffraction imaging with synchrotron radiation and XFELs	
11:00-11:15 Invited	Kuo Li (HPSTAR, Beijing, China) Crystal structure determination under high pressure using in situ powder diffractions	
11:15-11:30 Invited	Cailong Liu (JLU, Changchun, China) Pressure and temperature-induced crystal type transformations from molecular crystals to ionic/superionic crystals in water-ammonia ice	
11:30-11:40 Oral	Yunyu Yin (IOPCAS, Beijing, China) LaMn <sub>3</sub> Ni <sub>2</sub> Mn <sub>2</sub> O <sub>12</sub> An A- and B-Site Ordered Quadruple Perovskite with A-Site Tuning Orthogonal Spin Ordering	
11:40-11:50 Oral	Qingqing Niu (PKU, Beijing, China) Pressure-induced transition in Gd <sub>1.5</sub> Ce <sub>0.5</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlore and its mechanism	
11:50-12:00 Oral	Chao An (AHU, Hefei, China) Pressure-induced anomalous enhancement of insulating state and isosymmetric structural transition in quasi-one-dimensional TiS <sub>3</sub>	
12:05-13:30	午餐 Lunch Time	
<b>Afternoon, 27th Sept.</b>		
时间	内容	主持人
会场：一层 1 号厅 <span style="border: 1px solid red; padding: 2px;">Room 1, 1<sup>st</sup> Floor</span>		
14:00-14:25 Keynote	Xiaodong Xiang (SUST, Shenzhen, China) Materials Genome Scientific Infrastructure	<span style="border: 1px solid red; padding: 2px;">Chair</span> Qiang Li and Hongming Weng
14:25-14:50 Keynote	Ying Xin (TJU, Tianjin, China) Bulk and tape cuprate superconductors, materials and applications	

14:50-15:15 Keynote	Alexander Soldatov (Lulea, Sweden) Tuning properties of nanostructured carbon by high pressure and controlled disorder	
15:15-15:40 Keynote	Jinlong Zhu (HPSTAR, Beijing, China) Pressure-induced nearly zero thermal expansion in ferroelectric $\text{PbTiO}_3$	
15:40-16:00	茶歇 (Coffee Break 20 Minutes)	
16:00-16:25 Keynote	Toshiaki Iitaka (RIKEN, Japan) Pressure-induced structural change in magnesium silicate melts	<div style="border: 1px solid red; display: inline-block; padding: 2px;">Chair</div> T. Sekine and Bo Zou
16:25-16:40 Invited	Runze Yu (IOPCAS, Beijing, China) High Pressure Synthesis Several Bi-based Functional Materials	
16:40-16:55 Invited	Quan Li (JLU, Changchun, China) Structural Design and Mechanical Properties of Superhard Materials	
16:55-17:10 Invited	Xiangang Wan (NJU, Nanjing, China) Towards ideal topological materials Comprehensive database searches using symmetry indicators	
17:10-17:25 Invited	Yang Ding (HPSTAR, Beijing, China) A Novel Stripe Phase in Bi-2212 Cuprate	
17:25-17:40 Invited	Jinguang Cheng (IOPCAS, Beijing, China) Fragile metallic state in the pyrochlore $\text{Cd}_2\text{Ru}_2\text{O}_7$ : Effect of hydrostatic and chemical pressure	
17:40-17:55 Invited	Yuan Lin (UEST, Chengdu, China) Applications of flexible and stretchable strategy in oxide thin film research	
18:00-20:00	晚餐 Dinner Time	