Program of Session Q

Emerging Crystalline Materials

Q1: August 4 (Monday), 14:00-15:36
Room: 207
Chair: Satya Kushwaha

14:00-14:22	**Q01 (Invited)** Recent Progresses on Be-Based UV/Deep-UV Optical Crystals **Xian-Ming Zhang, Shanxi Normal University, CHINA**
14:22-14:44	**Q02 (Invited)** Exploration of New Flexible Composite Magneto-Optical Materials **Lin Yuling, Zhang Pengpai, Zhang Bowen, Hu Xiaolin, Li Xinxiong, Zhuang Naifeng, Fuzhou University, CHINA**
14:44-15:06	**Q03 (Invited)** From intermetallic to superionic conductor: a new type of solid-state Li^+ electrolyte **Guopeng Han, Suzhou Institute for Advanced Research, University of Science and Technology of China, CHINA**
15:06-15:21	**Q04 (Oral)** Growth of $Ba_3Fe_2O_5Cl_2$ Single Crystal by the Floating Zone Method **Yong Liu, Arnaud Magrez, Wenhua Bi, Ecole Polytechnique Fédérale de Lausanne, SWIZERLAND**
15:21-15:36	**Q05 (Oral)** Analysis of the Spectral and Laser Properties of Ho^{3+}-Doped and Tm^{3+}, Ho^{3+} Co-Doped LaF_3 Crystals and Energy Transfer Mechanisms **Li Shi, Yin Hang, Shanming Li, Chun Li, Chengchun Zhao, Peixiong Zhang, Shanghai Institute of Optics and Fine Mechines, CHINA**

Q2: August 4 (Monday), 16:00-17:36
Room: 207
Chair: Shilie Pan

16:00-16:22	**Q06 (Invited)** New Mid-IR Nonlinear Optical Chalcogenides with Balanced Properties **Zheshuai Lin, Technical Institute of Physics and Chemistry, CAS, CHINA**
16:22-16:44	**Q07 (Invited)** Hydroxyfluorooxoborates A fresh opportunity for borate chemistry **Miriding Mutailipu, Xinjiang Technical Institute of Physics & Chemistry, CAS, CHINA**

16:44-17:06	**Q08 (Invited)** Assembling Advantageous Groups Toward High-Performance Infrared Nonlinear Optical Materials **Junjie Li, Xinjiang Technical Institute of Physics and Chemistry, CAS, CHINA**
17:06-17:21	**Q09 (Oral)** Study on Bismuth-containing Phosphate Nonlinear Optical Crystal Materials **Lei Wu, Zhaohui Chen, Xinjiang University, CHINA**
17:21-17:36	**Q10 (Oral)** Study on the Growth and Property Modulation of Spin-Triplet Superconductor UTe_2 Single Crystals **Binbin Zhang, National University of Defense Technology, CHINA**

Q3: August 5 (Tuesday), 11:00-12:21
Room: 207
Chair: Zheshuai Lin

11:00-11:22	**Q11 (Invited)** Interfacial growth of two-dimensional optical crystals **Kaihui Liu, Peking University, CHINA**
11:22-11:44	**Q12 (Invited)** Crystal growth of chiral strongly correlated topological compounds **Maurice Naessens, Xinlin Yan, Berthold Stoeger, Silke Paschen, Andrey Prokofiev, Vienna University of Technology, AUSTRIA**
11:44-12:06	**Q13 (Invited)** An exploratory study of short-wavelength phosphate optical crystals **Zhaohui Chen, Xinjiang University, CHINA**
12:06-12:21	**Q14 (Oral)** Structural Design and Optical Properties of Sulfamate Crystals **Xuefei Wang, Wuhan Textile University, CHINA**

Q4: August 5 (Tuesday), 14:00-15:21
Room: 207
Chair: Zhuang Naifeng

14:00-14:22	**Q15 (Invited)** Rational Design and Optical Performance Enhancement of Novel Inorganic Crystals **Min Zhang, Xinjiang Technical Institute of Physics & Chemistry, CAS, CHINA**
14:22-14:44	**Q16 (Invited)** High-throughput screening to explore new nonlinear optical materials and building groups **Bingbing Zhang, Hebei University, CHINA**
14:44-15:06	**Q17 (Invited)** Experimental Realization of Low-Dimensional Antiferromagnets **Hongchen Lu, Huazhong University of Science and Technology, CHINA**