

**International Workshop on
Recent Progress in the Functionality of the Artificial Oxide
Structures**

Beijing, June 17th-20th, 2014

Scientific Program

Tuesday, June 17th, Building M, IOP, CAS	
9:00-12:00	Conference Registration
12:00	Lunch Break

Tuesday, June 17th, Meeting Room 234, Building M, IOP, CAS	
14:00-14:05	Welcome Speech
14:05-15:35	Session 1 Chair: Kuijuan Jin
14:05-14:55	Jak Tchakhalian (<i>University of Arkansas</i>) What is hidden in plane view ?
14:55-15:35	Jiyan Dai (<i>The Hong Kong Polytechnic University</i>) Application of LaAlO ₃ /SrTiO ₃ Heterostructure in Sensing Device
15:35-16:05	Break and Photo

16:05-16:55	Session 2 Chair: Jiandi Zhang
16:05-16:55	E. Ward Plummer (<i>Louisiana State University</i>) Structural, Electronic, and Vibrational Properties at the Surface of Sr ₃ Ru ₂ O ₇ induced by Mn doping
17:10	Dinner

Wednesday, June 18th, Meeting Room 234, Building M, IOP, CAS	
09:00-10:20	Session 3 Chair: Jiyan Dai
09:00-09:40	Chunfeng Zhang (<i>Nanjing University</i>) Coherent acoustic phonons in YBCO/LCMO superlattices

09:40-10:20	Runwei Li (<i>Ningbo Institute of Materials Technology & Engineering, CAS</i>) Modulation of Resistance State in Oxide Thin Films and Related Magnetoelectronic and Optoelectronic Effect
10:20-10:50	Break

10:50-11:30	Session 4 Chair: E. Ward Plummer
10:50-11:30	Jiandi Zhang (<i>Louisiana State University</i>) What is behind the metal-nonmetal transition in thin films of oxides?
11:40	Lunch Break

14:00-15:20	Session 5 Chair: Runwei Li
14:00-14:40	Jiandong Guo (<i>Institute of Physics, CAS</i>) The spatial distribution of oxygen vacancies in epitaxial SrTiO ₃ (110) films at the atomic scale
14:40-15:20	Yuelin Li (<i>Argonne National Laboratory</i>) Picosecond reconstruction of the photovoltaic field inside a ferroelectric thin film
15:20-15:50	Break

15:50-17:10	Session 6 Chair: Jak Tchakhalian
15:50-16:30	Kuijuan Jin (<i>Institute of Physics, CAS</i>) A Photo-assistant non-volatile and non-destructive readout of ferroelectric states in BFO films
16:30-17:10	Hao Yang (<i>Suzhou University</i>) Vertical interface engineering in oxide thin films
17:20	Dinner

Thursday, June 19th, Meeting Room 234, Building M, IOP, CAS	
09:00-10:20	Session 7 Chair: Xiaoqing Pan
09:00-09:40	Xiaoxing Xi (<i>Temple University</i>)

	Atomic Layer-by-Layer Growth of Oxide Films by Laser MBE from Separate Targets
09:40-10:20	Pu Yu (<i>Tsinghua University</i>) Magnetoelectric coupling across the atomically engineered BiFeO ₃ /La _{0.7} Sr _{0.3} MnO ₃ heterointerfaces
10:20-10:50	Break

10:50-11:30	Session 8 Chair: Jiandong Guo
10:50-11:30	Xiaoqing Pan (<i>University of Michigan</i>) Domain switching dynamics under electrical and mechanical excitations in ferroelectric thin films
11:40	Lunch Break

Thursday, June 19th, Meeting Room 236, Building M, IOP, CAS	
14:00-15:20	Session 9 Chair: Xiaoxing Xi
14:00-14:40	Jian Shen (<i>Fudan University</i>) Electronic Nano Fabrication of Complex Oxides
14:40-15:20	Lin Gu (<i>Institute of Physics, CAS</i>) Structure and Electronic Structure at Atomic Scale
15:20-15:50	Break

15:50-17:10	Session 10 Chair: Jian Shen
15:50-16:30	Xiaobing Ren (<i>Xi'an Jiaotong University</i>) High-performance Pb-free piezoelectrics
16:30-17:10	Jinxing Zhang (<i>Beijing Normal University</i>) Magnetic domain-wall motion twisted by nanoscale voltage-induced spin displacement
17:20	Dinner

Friday, June 20th, Meeting Room 236, Building M, IOP, CAS	
9:00-10:20	Session 11 Chair: Yuelin Li

9:00-9:40	Zhicheng Zhong (<i>Technische University Wien</i>) Giant switchable Rashba effect in oxide heterostructures
9:40-10:20	Rui Peng (<i>Fudan University</i>) Tuning the superconductivity in single-layer FeSe/oxides by interface engineering
10:20-11:20	Poster Section
11:40	Lunch Break

Friday, June 20th, Building M, IOP, CAS	
14:00-15:00	Laboratory Tour to Key Laboratory of Optical Physics
15:00-16:00	Laboratory Tour to Laboratory for Advanced Materials & Structure Analysis