

## Concurrent session 5: Interdisciplinary Physics

Friday, July 27, 2018

14:00 – 17:55	Concurrent session 5: Interdisciplinary Physics
Venue:	Anthony Lau Building (E4), E4-3053
Chairpersons:	1. Hui Pan 2. Yuan Cheng
14:00 – 14:25	Keynote presentation
	<b>Mechanical Properties of Silkworm Silk and its Applications</b> Yuan Cheng, Institute of High Performance Computing. MC: Hui Pan
14:25 – 15:40	Invited presentations
14:25 – 14:40	<b>Multifunctional materials based on cellulose</b> Haisong Qi, South China University of Technology. MC: Hui Pan
14:40 – 14:55	<b>Preparation, Structures, Properties of Natural Wood Fibrous Composite Materials: From Micron to Nanoscale</b> Detao Liu, South China University of Technology. MC: Hui Pan
14:55 – 15:10	<b>Structural engineering pseudocapacitive performance of spinel cobaltite <math>\text{MCo}_2\text{O}_4</math> (M = Mn, Ni, Cu, and Co)</b> Kwun Nam Hui, University of Macau. MC: Hui Pan
15:10 – 15:25	<b>Efficiency Boost of Inverted Quantum Dot Light Emitting Diodes by Thermal Damage Suppression Using an HAT-CN Interlayer</b> Shuangpeng Wang, University of Macau. MC: Hui Pan
15:25 – 15:40	<b>Solution-Controlled Fabrication of Wrinkled Graphene for Chemical and Mechanical Detection</b> Wenjun Chen, Sun Yat-sen University. MC: Hui Pan
15:40 – 15:50	Contributed presentations
	<b>Hong Kong Housing Price Forecasting: a Gaussian Process Approach</b> Juntao Wang, Hong Kong University of Science and Technology. MC: Hui Pan
15:50 – 16:20	Tea/coffee break, poster, discussion
16:20 – 16:45	Keynote presentation
	<b>Metastable Nano Alloys for Hydrogen Storage</b> Huaiyu Shao, University of Macau. MC: Yuan Cheng
16:45 – 17:45	Invited presentations
16:45 – 17:00	<b>Design of 2D Nanostructures as Catalysts for Hydrogen Production</b> Hui Pan, University of Macau. MC: Yuan Cheng
17:00 – 17:15	<b>Manipulation of Micro-drops on Deformable Superhydrophobic Platform enabled via Magnetic Actuation</b> Binpu Zhou, University of Macau. MC: Yuan Cheng

17:15 – 17:30	<b>The relation of sorptivity and capillary coefficient for water transport in mortar</b> Yunsheng Zhang, Southeast University. MC: Yuan Cheng
17:30 – 17:45	<b>Current status, challenges and opportunities of teaching physics in Sino-French nuclear engineering institute</b> Kan Lai, Sun Yat-sen University. MC: Yuan Cheng
17:45 – 17:55	<b>Contributed presentations</b>
	<b>Measuring the Scale of Congestion from Basic Quantities</b> Tat Shing Choi, Hong Kong University of Science and Technology. MC: Yuan Cheng
After 18:00	<b>Banquet Dinner (Hotel: Galaxy Macau, Bus pick-up point &amp; time: E4 G/F Lobby @ 18:00 pm)</b>