

8-5-2 名古屋大学—清華大学—トヨタ自動車（株）—北海道大学（NTTH）

**Nagoya Univ.-Tsinghua Univ.-Toyota Motor Corp.-Hokkaido**

**Univ. –Guangxi Univ. Joint Symposium**

*—Materials Science and Nanotechnology for the 21st Century—*

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**December 12, 2013, Thursday**

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8:30 **Opening Address** Chair: Hong Lin (*THU*)

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**Session 1** Chair: Tsukasa TORIMOTO (*NU*)

9:00 Feng Dang (*NU*) High TE-performance of particulate film of La-SrTiO<sub>3</sub> nanocubes with Nb surface doping

9:25 Akira KATO (*TMC*) Research on deformation behavior in Mg-Y diluted alloys

9:50 Jingfeng Li (*THU*) Microscale 1-3-type composites using lead-free (K,Na)NbO<sub>3</sub>-based piezoelectric ceramics

10:15 Yasuchika Hasegawa (*HU*) Effective Faraday rotation of EuSnanocrystals with paramagnetic metal ions

10:40-11:00 Coffee break

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**Session 2** Chair: Ke Wang (*THU*)

11:00 Ruitao Lv(*THU*) Enhanced Molecular Sensing and Efficient Photovoltaic Conversion of Large-Area Doped Graphene Sheets

11:25 Tsukasa TORIMOTO (*NU*) Composition-Dependent Photoelectrochemical Properties of Cu-Zn-Sn-S Quaternary Nanoparticles

11:50 Qingge Feng (*GU*) UV-light Photocatalytic Performance of TiO<sub>2</sub> Complex Material Supported by Rice Husk

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12:15-13:30 **Lunch**

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**Session 3** Chair: Yasuchika Hasegawa (*HU*)

13:30 Shin MUKAI (*HU*) High Efficiency Production of Filamentous Carbons Using the Liquid Pulse Injection Technique

13:55 Yuan Liu(*THU*) Effect of processing parameters on pore morphology of lotus-type porous copper produced by single-mold Gasar technique

14:20 Ill Yong KIM (*NU*) Hydroxyapatite formation on calcite single crystal under hydrothermal condition: Effects of crystal face of calcite

14:45 Jinqun Wei (*THU*) Highly conductive carbon nanotube fibers

15:10-15:30 Coffee break

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15:30-17:30 **Poster**  
17:30-18:00 **Poster award**  
18:00 **Dinner**

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**December 13, 2013, Friday**

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**Session 1**

Chair: Takahiro SEKI (NU)

8:00 Victor MENENDEZ(NU) Fabrication of Non-stoichiometric AgInS<sub>2</sub> Quantum Dots-Sensitized Solar Cells

8:20 Wei Pan (THU) Thermal properties of thermal barrier coatings

8:40 Kazuhisa Azumi (HU) In-situ Corrosion Monitoring of Metals for Long life Infrastructures

9:00 Qi Pang (GU) Synthesis and polymerization of high performance core/shell silica sol-polyacrylate emulsion

9:20 Ke Wang (THU) Temperature-insensitive Strain Behavior in (K,Na)NbO<sub>3</sub>-based Lead-free Piezoceramics

9:40-10:00 Coffee Break

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**Session 2**

Chair: Yuan Liu (THU)

10:00 Hong Lin(THU) Efficient Light Harvesting and Charge Collection of Dye-Sensitized Solar Cells with Single Crystalline TiO<sub>2</sub> Photoanodes

10:20 Yuki AKUZAWA (NU) Electrocatalysis of AgNiAlloy Nanoparticles Prepared by an Ionic Liquid / Metal Sputtering Technique

10:40 Guangjian Zheng (GU) Research on Alkali-activation Reactivity of Chemosynthetic Al<sub>2</sub>O<sub>3</sub>-2SiO<sub>2</sub> Powders by <sup>27</sup>Al and <sup>29</sup>Si MAS-NMR

11:00 Qingling Feng (THU) Bone Tissue Engineering and Drug Delivery

11:20 Hiroki Habazaki(HU) Tailoring of super-oil-repellent surfaces

11:40 Zhi-Gang Yang(THU) The Alloy Elements Partition on Kinetics of Ferrite transformation in Steels

12:00 Takahiro SEKI (NU) Photoalignment of Mesoscopic Polymer Structures

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12:20-13:30 **Lunch**

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13:30-17:00 **Lab Tour**

18:00 **Dinner**

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