

**The 8<sup>th</sup> Nagoya Univ.-Tsinghua Univ.-Toyota Motor Corp.-Hokkaido  
Univ.-Xinjiang Normal Univ. (NTTHX) Joint Symposium**  
—*Materials Science and Nanotechnology for the 21th Century*—

## Program

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August 9, 2015

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### Session 1

9:00    **Opening Address**

9:15    **Taking photo**

9:30    Kazuhisa Azumi(Hokkaido Univ.)    Al-Zn coating using a double counter electrode electrodeposition system from ionic liquid bath.

9:50    Takahiro Seki(Nagoya Univ.)    Photoalignment of mesoscopic polymer structures by light

10:10    Ruoming Tian    Flexible TiS<sub>2</sub> foil sandwiched by organic molecules for energy harvesting

10:35    Hiroki Habazaki(Hokkaido Univ.)    Corrosion Protection of Iron Using Conducting Polymer/Porous Anodic Oxide Composite Coatings

11:05    Michiko Kusunoki(Nagoya Univ.)    Interface modifications in epitaxial graphene on SiC (0001)

11:05-11:35    **Coffee break**

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### Session 2

11:35    Akira Kato(TOYOTA)    Research for improving the cold formability of magnesium alloy sheets

12:00    Zhengjun ZHANG(Tsinghua Univ.)    TiO<sub>2</sub>/CdS hybrid nanostructures as visible light photocatalyst

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12:30-13:30    **Lunch**

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### Session 3

14:00-15:30    Poster

### Session 4

15:30    Kiyoharu Tadanaga(Hokkaido Univ.)    Preparation of Zn-Al layered double hydroxide thin films intercalated with anionic dyes

15:50    Chikara Otsuki(Nagoya Univ.)    Bioinspired synthesis of calcium phosphate materials with controlled structure

14:45    Chi ZHANG(Tsinghua Univ.)    Mobile steel microstructure design

15:00    Shinnichi Kikkawa(Hokkaido Univ.)    Partial nitrogen loss in oxynitride perovskites SrTaO<sub>2</sub>N and LaTiO<sub>2</sub>N

15:15	Tsukasa Torimoto(Nagoya Univ.)	Quantum dot solar cells fabricated with ZnSe-AgInSe <sub>2</sub> solid solution nanoparticles with tunable electronic energy structure
15:30	Jingfeng LI(Tsinghua Univ.)	SnS: a promising thermoelectric with earth-abundant elements
15:50	Toshihiro Shimada(Hokkaido Univ.)	High energy chemistry for solid carbon materials synthesis
16:10	Ming ZHAO (Tsinghua Univ.)	The New Approaches to CIGS thin film solar cells
16:30	Li Oi Lun Helena(Nagoya Univ.)	Graphite oxide/cellulose composites: Innovative solid support material for DNA extraction application
16:50	Chunlei WANG(Tsinghua Univ.)	Flexible thermoelectric materials by organic intercalation of layered TiS <sub>2</sub>
17:10	<b>Discussion</b>	
18:30	<b>Banquet</b>	

### August 10, 2015

#### Session 5

9:00	Weng Mengting(Hokkaido Univ.)	Chemical vapor deposition of MoS <sub>2</sub> : Insight into the growth mechanism by separated gas flow experiments
9:08	(Tsinghua Univ.)	
9:16	Naoyuki Wakitani(Nagoya Univ.)	Orientation Control of Mesostructures in Organic-Inorganic Hybrid
9:24	Hayato Yoshikawa(Hokkaido Univ.)	Electrochemical reduction of CO <sub>2</sub> absorbed in an ionic liquid
9:32	Ryosuke Goto (Nagoya Univ.)	Proton conductivity and liquid crystal structure in alkyl sulfonated polyimides
	(Tsinghua Univ.)	
9:40	Yuto Okazaki(Hokkaido Univ.)	The Effect of Electrolyte Compositions on Anodizing of Ti in the Hot Alkaline Glycerol Electrolyte
	(Tsinghua Univ.)	
9:48	Ryosuke Tomizawa(Hokkaido Univ.)	Morphology control of anodic iron oxide films and their application to ORR and OER electrodes
9:56	Jianfeng Bao(Nagoya Univ.)	Formation of buffer-layer-free graphene on SiC (0001) by rapid cooling

10:04	Shota Sakaki(Hokkaido Univ.)	Crystalline Submicrometer-sized Spherical Particles by Pulsed Laser Irradiation in Liquid with Different Laser Pulse Width
10:12-10:30	<b>Coffee break</b>	
	<b>Session 6</b>	
10:30	Tingting XU(Tsinghua Univ.)	Grain Orientation and Domain Configuration in 3-1 Type Porous PZT Ceramics with Ultrahigh Piezoelectric Properties
10:38	Takuya Oshima(Nagoya Univ.)	Electrocatalytic activity of hollow cubic AuAg composite particles prepared by galvanic replacement reaction
10:46	Ming ZHAO(Tsinghua Univ.)	The New Approaches to CIGS thin film solar cells
10:54	Ryosuke Kakudo(Nagoya Univ.)	Enhanced photocurrent generation of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticle electrodes by ZnS coating
11:02	Lei YAO(Tsinghua Univ.)	Enhanced ionic conductivity in magnetron-sputtered Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2-δ</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers
11:10	Kim Kyu Sung(Nagoya Univ.)	Ultra high sensitivity attenuated total reflectance based ammonia gas sensor
12:00-13:30	<b>Lunch</b>	
14:00	<b>Cultural visiting</b>	
18:30	<b>Dinner</b>	