

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

Program

August 9, 2015

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 TiS₂ 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**

Session 2

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

12:00 Zhengjun ZHANG(Tsinghua Univ.) TiO₂/CdS hybrid nanostructures as visible light photocatalyst

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

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 SrTaO₂N and LaTiO₂N

15:15 Tsukasa Torimoto(Nagoya Univ.) Quantum dot solar cells fabricated with ZnSe-AgInSe₂ solid solution nanoparticles with

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		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 ₂
17:10	Discussion	
18:30	Banquet	

August 10, 2015

Session 5

9:00	Weng Mengting(Hokkaido Univ.)	Chemical vapor deposition of MoS ₂ : 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 ₂ absorbed in an ionic liquid
9:32	Ryousuke 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

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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	Coffee break	
	Session 6	
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 ₂ ZnSnS ₄ nanoparticle electrodes by ZnS coating
11:02	Lei YAO(Tsinghua Univ.)	Enhanced ionic conductivity in magnetron-sputtered Ce _{0.8} Sm _{0.2} O _{2-δ} /Al ₂ O ₃ multilayers
11:10	Kim Kyu Sung(Nagoya Univ.)	Ultra high sensitivity attenuated total reflectance based ammonia gas sensor
12:00-13:30	Lunch	
14:00	Cultural visiting	
18:30	Dinner	