

**Room A #101** 13:30-15:30**[Tu-A2] Safer Batteries****Session Chairs:**

Shou-Hang Bo (Shanghai Jiao Tong Univ., China),
Yuki Yamada (The Univ. of Tokyo / Kyoto Univ.,
Japan)

Tu-A2-1 [Invited] 13:30-14:00**Material- and System-Level Studies of Solid-State Batteries**

Shou-Hang Bo
Shanghai Jiao Tong Univ., China

Tu-A2-2 [Invited] 14:00-14:30**Fast Ion Conducting Sulfides for High Rate Performance All-Solid State Na-Ion Batteries**

Stefan Adams
Nat'l Univ. of Singapore, Singapore

Tu-A2-3 14:30-14:45**Composite Ionic Conductors by Photopolymerization**

Kia Chai Phuah, Ju Yu Yeo, and Stefan Adams
Nat'l Univ. of Singapore, Singapore

Tu-A2-4 14:45-15:00**Phase Structure of PEO-PPO-PEO/LiCF₃SO₃ Polymer Electrolytes Studied by High-Resolution Solid-State NMR**

Ling Wei
China Univ. of Petroleum, China

Tu-A2-5 15:00-15:15**High Performance LiNi_{0.5}Mn_{1.5}O₄ Thin Film Cathode Fabricated by RF Reactive Sputtering**

Jong Heon Kim and Hyun-Suk Kim
Chungnam Nat'l Univ., Korea

Tu-A2-6 15:15-15:30**High-Performance Supercapacitors using Self-Assembled Multilayers of RGO-MnO_x Nanohybrids on Surface-Enhanced Nickel Foams**

Hoseong Han and Hyungtak Seo
Ajou Univ., Korea

Tu-A2-7 15:30-15:45**Carbon Paper-Supported Nitrogen-Doped Reduced Graphene Oxide Fororganic Electrolyte Supercapacitor**

Sripachubwong Chakrit, Adisorn Tuantranont, Nirachawadee Srisamrarn, Jutarat Sudchanham, and Chatwarin Poochai
Nat'l Sci. and Tech. Development Agency, Thailand

Room B #102 13:30-15:30**[Tu-B2] Energy Related Materials and Phenomena****Session Chairs:**

Satoru Kaneko (KISTEC, Japan),
Hanns Ulrich Habermeier (Max-Planck-Inst. for
Solid State Research, Japan)

Tu-B2-1 [Keynote] 13:30-14:00**Giant Thermopower at High Temperatures in SrTiO₃/Ca₃Co₄O₇ Heterostructures**

Hanns-Ulrich Habermeier^{1,2}
¹*Max-Planck-Inst. for Solid State Research, Germany,*
²*Sci. Consulting Int'l., Germany*

Tu-B2-2 [Invited] 14:00-14:30**Oxygen Surface Exchange Properties of (La_{0.6}Sr_{0.4})(Co_{0.2}Fe_{0.8})O_{3-d} Thin Film Cathodes: Microstructure and Thickness Dependence**

Katherine Develos Bagarinao¹, Jeffrey De Vero¹,
Shu-Sheng Liu¹, Haruo Kishimoto¹, Tomohiro Ishiyama¹,
Katsuhiko Yamaji¹, Teruhisa Horita¹, and Harumi
Yokokawa^{1,2}
¹*AIST, Japan,* ²*The Univ. of Tokyo, Japan*

Tu-B2-3 [Invited] 14:30-15:00**Tuning of the Internal Stress in Magnetostrictive Thin Films and an Evaluation of Its Adhesion Applying Hydrogen Loading Treatment**

Helmut Takahiro Uchida, Masatoshi Inoue, Kengo Yamaguchi, Yoshihito Tsukagoshi, and Yoshihito Matsumura
Tokai Univ., Japan

Tu-B2-4 [Invited] 15:00-15:30**Vibrational Energy Harvesting based on Flexible Polymers**

Takashi Nakajima, Yoichiro Hashizume, and Soichiro Okamura
Tokyo Univ. of Sci., Japan