

Room A #101 10:45-12:45**[Fr-A2] Catalyst Materials for Super Capacitors****Session Chairs:**

Won-Hee Ryu (Sookmyung Women's Univ., Korea),
Byoungwoo Kang (POSTECH, Korea)

Fr-A2-1 [Invited] 10:45-11:15
Nature-Inspired Biomolecules as Oxygen Evolving Catalysts for Sustainable and Efficient Lithium-Oxygen Batteries

Won-Hee Ryu
Sookmyung Women's Univ., Korea

Fr-A2-2 11:15-11:30
Atomically Distributed, Oxygen-Deficient Ge-Zn Hybrid Nanofibers for Excellent High Rate Cyclability

Jun Young Cheong¹, Gyujin Song², Chihyun Hwang², Jaegeon Ryu², Sungho Choi², Chanhon Kim¹, Sungho Kim², Hyun-Kon Song², Chongmin Wang³, Il-Doo Kim¹, and Soojin Park²
¹KAIST, Korea, ²UNIST, Korea, ³Pacific Northwest Nat'l Laboratory, Korea

Fr-A2-3 11:30-11:45
BiMn₂O₅/Activated Carbon Nanocomposite Materials for High Performance Supercapacitors

Benjaporn Yotburut^{1,2}, Worawat Meevasana^{1,2}, and Santi Maensiri¹
¹Suranaree Univ. of Tech., Thailand, ²Chiang Mai Univ., Thailand

Fr-A2-4 11:45-12:00
Morphology-Conserved Metal Organic Framework-Derived Porous Carbons/CNT Composites for High Performance Supercapacitor

Songgue Choi and Kwang-Bum Kim
Yonsei Univ., Korea

Fr-A2-5 12:00-12:15
Improved Electrochemical Performance and Density of ZIF-8/graphene Composites for EDLCs

Hun Seok Choi and Kwang-Bum Kim
Yonsei Univ., Korea

Fr-A2-6 12:15-12:30
Sulfonated-Poly(Aniline-co-p-Phenylenediamine) Nanofiber-Decorated Nitrogen-Doped Reduced Graphene Oxide with Fe(CN)₆⁴⁺/Fe(CN)₆³⁺ in Sulfuric Acid for High Performance Supercapacitor

Chatwarin Poochai^{1,2}, Chakrit Sriprachuabwong^{1,2}, Nirachawadee Srisamrarn^{1,2}, Jutarat Sudchanham^{1,2}, and Adisorn Tuantranont^{1,2}
¹NECTEC, Thailand, ²NSTDA, Thailand

Fr-A2-7 12:30-12:45
Ni₃(VO₄)₂ Nanosheet Arrays on Aminated r-GO Sheets for Supercapacitor Applications

Prabhakar Rai, Rudra Kumar, and Ashutosh Sharma
IIT Kanpur, India

Room B #102 10:45-12:45
[Fr-B2] Topological Insulators : Materials, Electronic Structure, and Transport Properties II
Session Chair: Qiao Zhenhua
(ICQD/HFNL Univ. of Sci. and Tech., China)
Fr-B2-1 [Invited] 10:45-11:15
Fermi-Level Dependent Ultrafast Terahertz Dynamics in the Topological Insulator Bi₂Se₃

Hyunyoung Choi¹, Seungmin Lee¹, Sangwan Sim², Jisoo Moon³, Soonyoung Cha¹, Hoseung Shin¹, Suhyun Park¹, Woonsun Jang¹, Myungwoo Son⁴, Hyunseung Jung⁵, Seung Young Seo⁶, Aloysius Soon¹, Moon-Ho Ham⁴, Hojin Lee⁵, Moon-Ho Jo⁶, and Seongshik Oh³
¹Yonsei Univ., Korea, ²Los Alamos Nat'l Lab, USA, ³The State Univ. of New Jersey, USA, ⁴GIST, Korea, ⁵Soongsil Univ., Korea, ⁶POSTECH, Korea

Fr-B2-2 [Invited] 11:15-11:45
What Are Unique Transport Signatures of Topological Insulators?

Yong Chen^{1,2}
¹Purdue Univ., USA, ²Tohoku Univ., Japan

Fr-B2-3 [Invited] 11:45-12:15
Discovery of Topological States with Symmetry Principles in Electronic Materials and Meta-materials

Xiao Zhang
Sun Yat-sen Univ., China

Fr-B2-4 12:15-12:30
Non-Zero Berry Phase and Anomaly in Hall Resistivity on GdB₄ : A New Type of a Magnetic Semimetal with Nontrivial Topology

Wonhyuk Shon¹, Dong-Chun Rhyu², Kyoo Kim², Heon-Jung Kim³, Jong-Soo Rhyee¹, Byungil Min², Boyoun Kang⁴, and Beongki Cho⁴
¹Kyung Hee Univ., Korea, ²POSTECH, Korea, ³Daegu Univ., Korea, ⁴GIST, Korea