## Program Book

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## POSTER SESSION

Electrical Conductivity Measurement of $\mathrm{Al}-\mathrm{Mg}_{2} \mathrm{Si}$ Alloy for Composite Matrix
Takashi Nishigawa, Kenjiro Sugio, Gen Sasakil(Hiroshima University), Junji TabatalHiroshima Aluminum Industry Co. Ltd.), Nobuyuki FuyamalWestern Hiroshima Prefecture Industrial Research Institute)

Development of Manufacturing Process of Porous VGCF and Their Mechanical Property Fei Gao, Youqiang Yao, Yongbum Choi, Zhefeng Xu, Kazuhiro Matsugi, Kenjiro Sugio, Gen SasakilHiroshima University]

Fabrication of Lotus Type $\mathrm{SiO}_{2}+\mathrm{VGCF}$ Reinforced Al Composites and Their Thermal Property Yongbum Choi, Z. F. Zu, K. Matsugi, K. Sugio, G. Sasaki(Hiroshima Uinversity), M.H. Lee(Dong-Eui Institute of Technology)
Thermal Simulation of Manufacturing Metallic Material by Utilizing Pulsed Current Activity Sintering Method Hyo-Eun Nam, Hyun-Kuk Park, Jun-Ho Jang(Chonnam National University), Ik-Hyun Oh(Korea Institute of Industrial Technology)

## Multi-functional Composites

Effect of Fiber Aspect Ratio on the EMI Shielding Effectiveness of Magnetic Hollow Fiber/EPDM Composites
ae Ryung Choi, Ka Hyun Park, Byung Mun Jung, Sang-Kwan Lee, Sang Bok LeelKorea Institute of Materials Science

Injection Molding of Mechanoluminescent Composite Wheels Hyeon Kyeong Kim, Young Seok Song(Dankook Univesity)
Analysis of Sepiolite Embedded PVA Film
So Yeon Ahn, Young Seok Song(Dankook University)
Luminescent Properties of Functionally Graded Copper-Zinc Sulfide Phosphor Jehong Park, Seokgyu Lim(Next Generation Materials Co.,Ltd), Akira Kawasaki(Tohoku University), Marc Leparoux(Empa), Kwangjae Park(Pukyong National University), Hansang Kwon(Next Generation Materials Co.,Ltd, Pukyong National Universityl

## Nano-composites and Nanotechnology

## 3D Nano-architecture of Highly Efficient OER Catalysts

Seok-Hu Bae, Ji-Eun Kim, II-Kwon Oh(Korea Advanced Institute of Science and Technology)
DTA for Amount of $\mathrm{ZrO}_{2}-\mathrm{SiO}_{2}$ in CMS Glass Ceramics
Dayoung Lee, Seunggu Kang(Kyonggi University)
hotoluminescence (PL) of $\mathrm{WSe}_{2} / \mathrm{Cy}_{3}$-dye Hybrid
Han Kyu-Hyun, S. G. Jo, J. Joo(Korea University), J. Kim(Sungkyunkwan University)俍 atinee Lopattananon, Abdulhakim Masa, Azizon Kaesaman(Prince of Songkla University), Hiromu Saito(Tokyo University of Agriculture and Technology), Tadamoto Sakai(Shizuoka University) Carrageenan/Sitver Nanocomposite: Synthesis, Characterization and A
Properties Jose Paolo O. Bantang, Drexel H. Camacho(De La Salle University) Nanocomposites
Hyun Su Kim, Seong Yun Kim(Korea Institute of Science and Technology

Electrical and Mechanical Properties of Flexible Multi-walled Carbon Nanotube/Cyclic Butylene Terephthalate Composite Film
Ji Eun Cha, Seong Yun Kim(Korea Institute of Science and Technology)

## NDE Technology

Characterization of Terahertz Penetration on Conducting and Non-conducting FRP Composite Materials Kwang-Hee Im(Woosuk University), In-Young Yang(Chosun University), Sun-Kyu Kim(Chonbuk NatL. University), Co. Ltd.). Jong-An Jung(Songwon University, Hsullowa State University)

X-ray Residual Stress Measurement of Polyamide Matrix in CFRP Under Cryogenic Temperature Dai Hashimoto, Yuya Uesaki, Masayuki Nishida[Kobe City College of Technology)

Processing and Manufacturing
Volume Change of Expanded Graphite Via Inductively Coupled Plasma Treatment and Mutual Relation Between Expansion Volume and Thermal Conductivity of Polymer Composites
Jong Hyeok Kim, Hyun Su Kim, Wu Young Kim, Hun Su Lee, Seong Yun Kim(Korea Institute of Science and Technologyl
Electrical Conductivity of Nano-compounds Filled with Highly Dispersed Multi-walled Carbon Nanotube via in situ Polymerization
Ji-Un Jang, Seong Yun Kim(Korea Institute of Science and Technology)

Study on Optimization of High-thermal Resistant Epoxy Resin Compounding for Automobile Using Eunsong Lee(Korea Institute of Materials Science, Pusan National University), Dong Gi Seong, Moon-Kwang Um, Jin-Woo Yilkorea Institute of Materials Science ), Wonho Kim(Pusan National University)
Manufacturing and Characterization of Poly(Lactic Acid)/Halloysite Composite Materials Bo Ram LeelKorea Institute of Industrial Technology, Hanyang University), Si-Hoon Jang, No-Hyung Park|Korea Institute of Industrial Technology )

Assessment of Particle Distribution in Particle-containing Composite Materials Ji Hoon Lee, Seung Mo Kim(Korea University of Technology and Education

## Recycling

Effects of Pre-curing of IGCC Slag Based Geopolymer Crystal Growth Soobin Park, Seunggu Kang(Kyonggi University)

A Kinetic Study on the Supercritical Decrosslinking Reaction of Silane-crosslinked Polyethylene Using a Continuous Reactor
Bum Ki Baek(Korea Institute of Science and Technology, Yonsei University), Yun Ho La(Korea Institute of Science and Technology, Hanyang University), Jun Pyo Hong, Seok Jin Noh, Chong Min Koo, Soon Man Hong(Korea Institute of Science and Technology), Haksoo Han(Yonsei University)
Mechanical Properties of Recycling Materials Based-geopolymer
Yuna Lee, Seunggu Kang[Kyonggi University]

## Sandwich Technologies

Effect of Adhesive Quantity on Failure Behavior and Mechanical Properties of Fiber Metal Laminates Based on the Aluminum-lithium Alloy
Huaguan Li, Jie Tao, Xuelong Ful(Nanjing University of Aeronautics and Astronautics)

