

Simposium 8: Critical Materials for Energy**February 26 (THU)**

Time	Program	
	[S8-1] Critical Materials for Energy	
	Chair: Imanaka, Nobuhito (Osaka University) & Kim, Bum Sung (KITECH)	
10:40-11:10	[2142881] The Evolution of Critical Materials	King, Alexander H. (Ames Laboratory)
11:10-11:40	[2141419] Rare Earths at the Oaxaquia Microcontinent in Mexico	Lozano, Martinez-Gomez (UNAM)
11:40-12:00	[2114055] ReMat Process for Critical Materials Considering Energy	Kim, Taek Soo (KITECH)

Time	Program	
	[S8-2] Critical Materials for Energy	
	Chair: Annett Gebert (IFW Dresden) & Chen, Wei-Sheng (National Cheng Kung University)	
13:30-14:00	[2156960] The Reduction of Platinum Consumption in Environmental Catalysts for Volatile Organic Compounds	Imanaka, Nobuhito (Osaka University)
14:00-14:30	[2118241] Microstructure and thermoelectric properties of Bi ₂ Te ₃ based alloys by different powder metallurgy methods	Hong, Soon-Jik (Kongju National University)
14:30-15:00	[2120380] Oriented Epitaxial TiO ₂ Nanowires for Water Splitting	Kisailus, David (Univ. of California at Riverside)
15:00-15:30	[2114212] Synthesis and 3D Characterization of Ceramics System with Highly Regulated Structures	Nakayama, Tadachika (Nagaoka Univ. of Tech.)

Time	Program	
	[S8-3] Critical Materials for Energy	
	Chair: Kim, Taek Soo (KITECH) & Nakayama, Tadachika (Nagaoka Univ. of Tech.)	
15:50-16:20	[2108939] A straight-forward route for recycling of Nd from Nd-Fe-B magnets based on melt extraction	Gebert, Annett (IFW Dresden)
16:20-16:40	[2114054] Effects of Si addition on Microstructure and Magnetic Properties of Ni-Fe alloy strips	Lim, Kyoungmook (KITECH)
16:40-17:10	[2141556] The Separation of Indium and Copper from Spent Cu-In Targets	Chen, Wei-Sheng (National Cheng Kung University)
17:10-17:30	[2125527] Thermochemical fundamentals of 'Indium' recovery in the pyrometallurgical recycling technology	Park, Joohyun (Hanyang University)
17:30-18:00	[2114121] Rare earth recycling research at the Critical Materials Institute	Ott, Ryan (Ames Laboratory)
18:00-18:20	[2102445] Zr scrap recycling for applying nuclear grade Zr by electrorefining under molten halide electrolyte	Choi, Sang-Hoon (KITECH)
18:30-21:00	The 4th International Rare Metals Working Group Workshop	Location : Lotte Hotel Jeju Main Building 6F

February 27 (FRI)

Time	Program	
	[S8-4] Critical Materials for Energy	
	Chair: Hong, Soon-Jik (Kongju National University) & Kisailus, David (Univ. of California at	
09:00-09:30	[2102044] Assessment of Recycling Technology and Its Commercialization for Waste Flat Panel Displays	Hong, Hyun Seon (IAE)
09:30-09:50	[2111490] Dopantless tin oxide films prepared by LPCVD	Kim, Jun-Hyun (Ajou University)
09:50-10:20	[2114261] Corrosion behaviour of extruded Mg-1.6Gd in Simulated Biological Fluids as Degradable Biomaterials	Susanti, Oknovia (Universitas of Indonesia)
10:20-10:40	[2111437] Pin-point Localization Control of Boron Nitride Nanosheets Assembly with Anisotropic Orientation in Polymer-based Nanocomposites.	Cho, Hong-Baek (Nagaoka Univ. of Tech.)

Time	Program	
	[S8-5] Critical Materials for Energy	
	Chair: Ott, Ryon (Ames Lab.) & Hong, Hyun Seon (IAE)	
10:50-11:20	[2123756] Yellow-Green phosphors based on Ce:(Y,Lu)AG single-crystals for high-brightness/high-power white LEDs & LDs	Villora, Encarnacion Garcia (National Instit. for Mater. Scien.)
11:20-11:40	[2102400] Synthesis and Luminescence Properties of Mesophase Silica Thin Films Doped with in-situ Formed Rare Earth Complexes	Seo, Seok-Jun (KITECH)
11:40-12:00	[2113991] Synthesis of Nanocrystals by Micro Fluidic Reactor Using a Combinatorial Synthesis System	Hong, Myung Hwan (IAE)
12:00-12:20	[2111164] Optimization of Octylamine Flow Rate to Synthesize CdSe Quantum Dots by Microreactor	Kim, Bum Sung (KITECH)