

Room	Simposia	Time	Chairman	Oral No.	Abstract No.	Title	저자	
A	Plenary Lecture	10:00~10:30	Prof. Burak ÖZKAL (Istanbul Technical Univ., Turkey)	P-01	331	What Else Do We Need to Know to Understand Sintering Phenomena?	<u>Suk-Joong L. Kang</u> *	
	Advanced Material Processing	10:50~12:10	Prof. Soon-Jik Hong (Kongju National Univ., Korea)	I-01	330	Electrophoretic Deposition of SiAlON:Eu ²⁺ Phosphor Particles for Packaging of Flat Pseudo-White Light Emitting Devices	<u>Tetsuo Uchikoshi</u> *	
				I-02	246	Dispersion of Cobalt Nanoparticles Synthesized by Liquid Phase Reduction Method	Jin Ho Lee ¹ , Jin Woo Kim ¹ , Jong Min Byun ¹ , Seoung Yeul Kwak ¹ , Hyun Seon Hong ² and <u>Young Do Kim</u> ^{1*}	
				A-01	206	Fabrication of Si-SiC Materials with a High Strength and High Purity using SiC-C Hybrid Composite Powders Synthesized by a Carbothermal Reduction Process	<u>Sang Whan Park</u> ¹ , Gyoung Sun Cho ¹ , Sung Ho Yoon ¹ , Sung Il Yoon ^{1,2}	
				A-02	224	Structural, Morphological and Up-Converting Luminescence Characteristics of Nanocrystalline Y ₂ O ₃ :Yb/Er Powders	<u>L.Mancic</u> ^{1*} , V. Lojpur ¹ , P.Vulic ² , M.E. Rabanal ³ , M. Dramicanin ³ , and O. Milosevic ¹	
	Rare Metal	13:00~14:20	Dr. Min-Ha LEE (KITECH, Korea)	I-03	127	High-Speed Deposition of Super-Conducting Film by Laser CVD for Rare-Metal Substitution	<u>Takashi Goto</u> *, Pei Zhao, Akihiko Ito, and Rong Tu	
				I-04	8	Recycling of Rare Earth Metals using Liquid Metal Extraction	<u>Ryan T. Ott</u> ^{1*} , Larry L. Jones ¹ , and Taek-Soo Kim ²	
				A-03	91	Corrosion Behavior of Rapidly Solidified Mg-Zn-Y-Sn Alloys in 0.01M NaCl Solution	<u>S.W. Nam</u> ^{1,3} , W.T. Kim ² , D.H. Kim ¹ , and T.S. Kim ^{3,*}	
				A-04	177	Development of High Efficiency Thermoelectric Materials by New Powder Metallurgy Process	<u>Hyo-Seob Kim</u> , <u>Soon-Jik Hong</u> *	
				I-05	180	Stability and Recycling of Rare Earth Permanent Magnets	<u>J. Eckert</u> ^{1,2*} , A. Gebert ¹ , M. Uhlemann ¹ , R. Sueptitz ¹ , U. Kühn ¹ , B.S. Kim ³ , M.H. Lee ³ , and T.S. Kim ³	
				A-05	28	Formation of Nanoscale Twins under the Geometrical Constraints Condition Within Rare Metals Including Metallic Glass Composite	<u>Min Ha Lee</u> ^{1*} , Bum Sung Kim ¹ , Do Hayng Kim ² , and Jürgen Eckert ³	
	B	Mechanical Alloying & Mechanochemistry	10:50~12:10	Dr. Roberto Martinez (Centro de Investigacion en Materiales Avanzados, Mexico) Dr. Jung Goo Lee (KIMS, Korea)	I-06	315	HRTEM of CNT/Al ₂ O ₃ Composites by Mechanical Alloying	<u>R. Pérez-Bustamante</u> , <u>R. Martínez-Sánchez</u> *
					I-07	214	Effect of Carbon Addition on the Microstructure of Mechanically Alloys Ni-Y ₂ O ₃	Jinsung Jang ¹ , Tae Kyu Kim ¹ , and <u>Jung-Ho Ahn</u> ^{2*}
					B-01	83	The Evolution from Binary to Ternary with the Effect of Nitrogen in TiC-Based Cermet: Experimental and Theoretical Investigations	<u>Zhe GAO</u> , Shinhoo Kang*
B-02					102	Effect of Carbide Particle Size on the Properties of W-ZrC Composites	<u>Jae-Hee Kim</u> , Moonsu Seo, Choongkwon Park, and Shinhoo Kang*	
	Resources & Recycling	13:00~14:20	Dr. Anja Waske (IFW Dresden, Germany)	I-08	169	Molecular Sorting - Next Generation Recovery and Recycling Processes	<u>Joerg Woidasky</u> *	

			Prof. Kyoungkeun Yoo(Korea Maritime University)	I-09	227	Fundamental Study on the Recycling Technology of End-of-Life Magnesium Scrap	Y.D. Hahn1*, B.G. Moon2, B.S. You2, W.W. Park3, K.Y. Sohn3, and K.H. Koh3	
				B-03	170	The Recycling of Slag from Cobalt Concentrate with Red Mud and Waste Limestone as Fluxes using the Sag Atomizing Technology	Jeongsoo Sohn, Sookyung Kim, Kangin Rhee, and Donghyo Yang*	
				B-04	183	Development of Total Recycling Technologies for Flat Panel Display Devices	Sungkyu Lee*	
	14:40~16:00			Dr. Joerg Woidasky (Fraunhofer-Institute for Chemical Technology, Germany) Prof. Kyoungkeun Yoo(Korea Maritime University)	I-10	334	The Role of Structural Transitions for Magnetocaloric Cooling	A. Waske 1, K. Skokov2, L. Giebeler1, O. Gutfleisch2, and J. Eckert1,3
					B-05	259	Material Flow Analysis of Neodymium and Dysprosium in Korea	Chan Gi Lee1*, Kang Ryong Choi2, Lee Seung Kang1 and Hyun Sun Hong1
					B-06	155	Recycling Process of Spent Battery Modules in Used Hybrid Electric Vehicles using Physical/Chemical Treatments	Sookyung Kim, Donghyo Yang, Kangin Rhee, and Jeongsoo Sohn*
					B-07	86	A Study on the Manufacture of Iron Powder from Forge Scale with Hydrogen	Shun-Myung Shin1, Chang-Yong Kang2, and Jeil-Pil Wang2*
					B-08	50	Leaching Behavior of Heavy Metals in Contaminated Soils with Citric Acid	Kyoungkeun Yoo*, Hongki Park, and Kyungbae Jung

2012. 08. 28 (Tue)

Room	Simposia	Time	Chairman	Oral No.	Abstract No.	Title	저자	
A	Plenary Lecture	10:00~10:30	Prof. Jung-Ho Ahn (Andong Nat'l. Univ., Korea)	P-02	4	Mechanochemical Synthesis of Nanocrystalline Metal Powders	Eugene Ivanov1*, Challapalli Suryanarayana2	
	Advanced Powder Metallurgy	10:50~12:10		Prof. M.L.Ovecoglu (Istanbul Technical Univ. Turkey)	I-11	332	Advances in Processing of PM Microcomponents using a Bimodal Mixture of Micro-Nano Powders	Jai-Sung Lee*, Joon-Phil Choi, Hyun-Gon Lyu, and Woo-Kyung You
					A-07	218	Effects of Alloying Elements on the Sintering of Elementally Mixed Titanium Powder Alloys	Moontae Kim1*, Hyungsik Chung2
					A-08	287	Effect of Cold Deformation on the Microstructure and Transformation Properties of Fe-14Mn-6Si-9Cr-5Ni Shape Memory Alloy, Prepared by P/M Route	A.U. Söyler1, B. Özkal1, and L.G. Bujoreanu2
					A-09	67	Mechanical Properties of Extruded Al-Si-Fe-Cu-SiC Composite Materials	S. Yang1, H. Rudianto1,2, J. Gwak1,3, T.S. Lim1, and Y.J. Kim1*
					A-10	288	Biodegradable Poly(Lactic Acid)/Multiwalled Carbon Nanotube Nanocomposites Fabricated Via Simple Technique	Seok Geun Park1, Abdalla Abdallahay.1,2,3 Do Yeon Jung2, Jae Kyoo Lim1,*
B	Energy & Nuclear Materials	10:50~12:10	Dr. Yong Hwan Jeong (Korea Atomic Energy Research Institute, Korea)	I-12	160	Development of Advanced Nuclear Materials for Future Nuclear Systems in Korea	Yong Hwan Jeong*, Weon Ju Kim, Dong Jin Kim, Junhyun Kwon, Jinsung Jang, and Tae Kyu Kim	
				B-09	162	Effects of Oxygen Concentration on the Size Distribution of Oxide Particles in 12Cr ODS Steel	Tae Kyu Kim*, Chang Hee Han, Jinsung Jang	
				B-10	172	Rate Theory Based Modeling of Defects Evolution in Reactor Pressure Vessel Steels: Application to Irradiation Hardening	Gyeong-Geun Lee*, Yong-Bok Lee, Min-Chul Kim, and Junhyun Kwon	

				B-11	181	Evaluation of SA508 Gr4N High Strength Low Alloy Steel for Application to Nuclear Pressure Vessel	Bong-Sang Lee*, Min-Chul Kim, Ki-Hyung Lee, and Sang-Gyu Park
				B-12	25	The Corrosion Behavior of Ni-Cr-Fe Alloy Applied with Nano-TiO ₂ in High Temperature Caustic Water	Kyung Mo Kim*, Eun Hee Lee, and Do Haeng Hur

2012. 08. 29 (Wed)

Room	Simposia	Time	Chairman	Oral No.	Abstract No.	Title	저자		
A	Plenary Lecture	10:00~10:30	Prof. Young Do Kim (Hanyang Univ., Korea)	P-03	345	Characterization Investigations During Mechanochemical Synthesis of Some Transition Metal Borides	M.L.Ovecogl*		
	Advanced Powder Metallurgy	10:50~12:10	Dr. Yong-Jin Kim (Korea Institute of Materials Science, Korea)	A-11	211	Development for Fabrication of Refined Silicon Nanoparticles by Transferred arc Plasma System	Byungkwon Kim ^{1,2} , Jungho Hwang ¹ , Jeong-Yeol Kim ³ , Dongho Park ^{2*}		
				A-12	286	Enhancing the Sinterability of ZnO Nanopowders Via Short Time Cryogenic Milling	Aziz Genç*, Şeyma Duman, Burak Özkal, M. Lütfi Öveçoğlu		
				A-13	147	Synthesis of High Purity β-SiC Powders Synthesized by Modified Carbothermal Reduction using TEOS and Phenol Resin	Mi-Rae Youm ^{1,2} , Young-Churl Cho, Sang-Whan Park ¹		
				A-14	202	Characterization and Cell Performance of Al Paste with an Inorganic Binder of Bi ₂ O ₃ -B ₂ O ₃ -ZnO System in Si Solar Cells	Bit-Na Kim ^{1,2} , Do-Hyung Kim ¹ , Hyung Jun Kim ¹ , Heon Lee ² , Hyo Sik Chang ³ , and Sung-Soo Ryu ^{1*}		
	Advanced Material Processing	13:00~14:20	Prof. Orhan UZUN (Gaziosmanpasa University, Turkey)	A-15	99	Cu based Sputtering Target Materials for Solar Cell Manufactured by Cold Spray Deposition	Kee-Ahn Lee ^{1,*} , Ji-Sang Yu ¹ , Dong Yong Park ² , and Hyung-Jun Kim ³		
				A-16	139	Supercritical Carbon Dioxide Assisted Synthesis of Nanostructured Magnesium Compound Particles	Sang Woo Kim*, Hee Chul Yeom, and Dong Ju Moon		
				A-17	144	Microstructural Control of Particle-Stabilized Zirconia Toughened Alumina Foams Produced by Direct Foaming Method	Rizwan Ahmad ¹ , In-Hyuck Song ^{1,2*} , Jang-Hoon Ha ² , Yoo-Dong Hahn ²		
				14:40~16:00	Prof. Kee-Ahn Lee (Andong National University, Korea)	A-18	187	Enhancement of Transparency of Nanoporous Silica Aerogels by Ambient Drying	Young-Jei Oh*, Kyung-Ho Kim
						A-19	313	Effect of Particle Boundary on Soft Magnetic Properties of Fe-6.5wt.%Si Sheet Consolidated by Powder Hot Rolling	H.J. Kim ^{1,*} , J.C. Bae ¹ , H.J. Lee ² and M.Y. Huh ²
						A-20	342	Fabrication Process of Inorganic-Thermoelectric Nanocomposites using Carbon Nanotubes	Kyung Tae Kim ^{1*} , Hye Young Koo ¹ , and Gook Hyun Ha ¹
						A-21	344	Fabrication of Silver Powder Added Polypropylene Matrix Composites via Injection Molding	Kübra Yumakgil, Burak Özkal*
	Energy & Nuclear Materials	10:50~12:10	Dr. Chang Kyu RHEE (Korea Atomic Energy Research Institute, Korea)	I-14	347	The Effect of Neutron and Mixed Gamma/Neutron Irradiation on The Solar Parameters of Borosilicate Glass	N. Baydogan*, A. B. Tugrul		
				B-13					
				B-14	112	Optical Properties and Thermal Stability of Ultrathin TaN-Ag-Si Films for Low Emissivity Applications	Sivasankar Reddy Akepati ¹ , HoTak Yu ² , Chadrsekhar Loka ² , and Kee-Sun Lee ^{1,2,*}		
	B								

Novel Functional Materials	13:00~14:20	Dr. Kun Jae LEE (Institute for Advanced Engineering, Korea) Prof. Yong Ho Choa (Hanyang Univ., Korea)	I-15	116	Exfoliation and Functionalization of BN Nanosheets and Fabrication of Densely Packed Linear Assembly in Polymer Nanocomposites	Hong-Baek Cho1,* Tadachika Nakayama1,* Hisayuki Suematsu1, Tsuneo Suzuki1, Weihua Jiang1, Satoshi Tanaka1, Yoshinori Tokoi2, and Koichi Niihara1
			I-16	348	Sonochemical Synthesis of Nanomaterials	<u>Özgür Birer*</u>
			B-15	14	CFD Simulation of Chemical Vapor Deposition of Silicon Carbide in CH ₃ SiCl ₃ -H ₂ system	Kyoon Choi*, Jun-Woo Kim
			B-16	42	Synthesis of Pd Particle with Various Shapes by Ionic Liquids for HFP Hydrogenation Catalyst	Chang Soo Kim1, <u>Kye Sang Yoo2*</u>
	14:40~16:00	Prof. Hong-Baek Cho (Nagaoka University of Technology, Japan) Dr.Chan Gi Lee (Institute for Advanced Engineering, Korea)	I-17	349	Chemical and Electrochemical Processes for the Production of Nanotemplates, Nanowires, Nanopatterned and Functional Surfaces	<u>Mustafa Ürgen*</u>
			I-18	343	Mesoporous Structures by Selective Dissolution of Alloys	<u>Frank Uwe Renner*</u>
			B-17	68	Preparation of Conductive Metal Patterns using Cu Nano-Colloids Prepared Electrical Wire Explosion	S. Yang1, J. Yoon1,2, J.Y. Yun1, T.S. Lim1, Y.J. Kim1, and J.H. Yu1*
			B-18	351	Green fluorescent nanodiamond conjugates and their possible applications for biosensing	<u>Joerg Opitz*</u>
			B-19	121	Diameter-Controlled Carbon Nanotubes from metal catalyst nanoparticles with different sizes	<u>W. Zhao</u> , I.J. Kim*

2012. 08. 30 (THU)

Room	Simposia	Time	Chairman	Oral No.	Abstract No.	Title	저자
A	Nanocomposite and Nanoporousmaterials	10:00~11:20	Prof. Soo-Jin Park (Inha Univ., Korea)	I-19	326	Defect Structure and Mechanical Properties of Metal Matrix - Carbon Nanotube Composites	Jenő Gubicza1,* Hyoung Seop Kim2
				I-20	71	Formation of Hollow Copper Oxide by Oxidation of Cu Nanoparticles	J. -G. Lee1*, R. Nakamura2, Y. -S. Cho, J. -H. Yu1, and C. -J. Choi1
				A-22	291	Size Effect on Equilibrium Atomic Structure of Pt-Based Bimetallic Nanoparticles	Ho-Seok Nam1*, Kayoung Yun1, and Seung-Chul Lee2
		11:20~12:10	Dr. Jenő Gubicza (Eotvos Lorand Univ., Hungary)	I-21	189	Influence of Reducing Agents and a Stabilizing Agent on the Preparation of Nano-Size Platinum Metals	Sang Chai Kim1,* Sang Chul Jung2, Young Kwon Park3, Sun-Jae Kim4, and Seong Gyu Seo5
				I-22	350	Functionalized Nanodiamond - New Perspective Material for Smart Coatings and Biomedical Application	<u>Juergen Schreiber*</u>
				A-23	106	Magnetite Nanoparticles in Hybrid Aerogel and Its Hyperthermia Application	Eun-Hee Lee1,2, Yong-Ho Choa,2, <u>Chang-Yeoul Kim1*</u>
B	Resources & Recycling	10:00~11:20	Dr. Sungkyu Lee (Institute for Advanced Engineering, Korea) Dr. Hyun Seon Hong(IAE)	B-20	217	Mechanical Properties of Al ₂ TiO ₅ Ceramics for High Temperature Application	Dami Kim1,2, Hyungjun KIM1, Hyung-Tae Kim1, Jung Namkung3, Ikjin KIM4, Seongcheol Choi2, and Sung-Soo Ryu1*
				B-21	188	Fabrication of LiFeBO ₃ and Li ₂ MnSiO ₄ Powders for Lithium Ion Battery	Kun-Jae Lee*, Lee-Seung Kang, Yun-Ho Jin, Hang-Chul Jung, and Hyun Seon Hong
				B-22	47	Study on Chemical Oxidative Precipitation to Recover Manganese Dioxide from Lithium Ion Battery	Sung Ho Joo1,2, Jin Gu Kang1,2, <u>Shun Myung Shin1,2*</u>

				B-23	237	Methanol Synthesis from Syngas Produced via Gasification of Municipal Solid Waste	Gwan Hyung Lee ¹ , Jong Wan Lim ¹ , Jong-In Dong ¹ , Sung Hoon Park ² , Jong-Ki Jeon ³ , Yong-Taek Lim ⁴ , <u>Young-Kwon Park</u> ^{1, 5*}
Energy & Nuclear Materials	11:20~12:10	Prof. Nilgun Baydogan (Istanbul Technical Univ., Turkey)	B-24	321	Microstructure and Soft Magnetic Properties of Fe-based Amorphous and Bulk Metallic Glass Alloys with Annealing Conditions	J.H Lee ^{1,2*} , H.J Kim ¹ , and D.H. Kim ²	
			B-25	322	Soft Magnetic Properties of Fe-based Soft Magnetic Composites with Oxide and Nitride Layer	K.C. Hwang, H.J. Kim*	
			B-26	323	Effect of Boron Addition on Soft Magnetic Properties of FeCo-Metalloid-Nb Amorphous Alloys	J.Y. Cho, H.J. Kim*	