Symposium P : 4th KIM-CSM symposium: New Metal Materials: Low-carbon emission, New energy vehicles & Lightweights

Session Title : New Metal Forming Process & Properties (P1)	
Time : 09:00 -10:40, Nov. 23	
Room # : 401, 4F	
Session Chair : Opening - Hyoungwook Kim, Korea Institute of Materials Science	
ShiHoon Choi, Sunchon National University	
09:00 – 09:10 Opening Ceremony	
Welcome Message	
KIM President, CSM president (Video)	
09:10 – 09:40 Keynote	I-P0819
Electric Current Assisted Processing and its Mechanism	
Heung Nam Han, Seoul National University, KIM	
09:40 – 10:00 Invited	I-P0829
Crash Cracking Index and Hydrogen Embrittlement Mechanisms of Hot Stamping C	Components
Hongzhou Lu, CITIC Metal Co., LTD, CSM	
10:00 – 10:20 Invited	I-P0000
Elasto-visco-plastic self-consistent polycrystal model for finite element simulations	
and springback	or senang
Youngung Jeong, Changwon National University, KIM	
10:20 – 10:40 Invited	I-P1013
Al-Si Coated Press Hardened Steel with Improved Bendability	
Hongliang Yi, Northeastern University, CSM	
Session Title : Green Metal Forming & Properties (P2)	
Time : 10:50 -12:10, Nov. 23	
Room # : 401, 4F	
Session Chair : Hongzhou Lu, CITIC Metal Co., LTD	
10:50 – 11:10 Invited	I-P0000
Simulating cyclic loading behaviour of a magnesium alloy at elevated temperature	
Hyuk Jong Bong, Korea Institute of Materials Science, KIM	
11:10 – 11:30 Invited	I-P0909
The hydrogen embrittlement behaviours of micro-alloyed press hardened steel:	mechanical
property, microstructure characterization and modelling	

Yan Zhao, Beijing Institute of Technology Chongqing Innovation Center, CSM	
11:30 – 11:50 Invited I-P099	6
Deciphering the effect of initial texture on the hemming performance of AA5083 aluminum	
alloy	
ShiHoon Choi, Sunchon National University, KIM	
11:50 – 12:10 Invited I-P087	2
Latest Progress of Light weight and Low CO2 Emission Solutions for New Electric Vehicle	
Fei Han, Automotive Steel Institute, CSM	
Session Title : New Metals for Light weightening (P3)	
Time : 13:40 -15:20, Nov. 23	
Room # : 401, 4F	
Session Chair : Hyoungwook Kim, Korea Institute of Materials Science	
13:40 – 14:00 Invited I-P089	6
The New Challenge and Replying Strategy of Early Vendor Involvement Solutions of Automotiv	/e
Materials with the Goal of Carbon Neutrality	
Jia Zhou, China Automotive Engineering Research Institute Co., Ltd, CSM	
14:00 – 14:20 Invited I-P083	3
Improvement of corrosion resistance of SEN Mg alloys	
Bong Sun You, Korea Institute of Materials Science, KIM	
14:20 – 14:40 Invited I-P088	5
Exploration and research on key technologies of green low-carbon manufacturing fe	or
automobile aluminum alloy components under the vision of low-carbon emission	
Yu Wang, CITIC Dicastal Co.,Ltd, CSM	
14:40 – 15:00 Invited I-P098	9
Eco-friendly high strength Al-Zn-Mg-Cu alloy sheets for automobile body application	
Hyoungwook Kim, Korea Institute of Materials Science, KIM	
15:00 – 15:20 Invited I-P094	7
Precipitation behaviour of AI-7Si-0.35Mg casting alloy during T5 heat treatment	
Young-Hee Cho. Korea Institute of Materials Science, KIM	

Young-Hee Cho, Korea Institute of Materials Science, KIM