

Session Code	[06] WeK2
Session Title	Advances in Low Density Materials 2
Date and Time	Wednesday, October 6, 2021 / 13:20-14:45
Session Room	Room K (402)
Session Chair(s)	Ilguk Jo (Dong-Eui Univ., Korea)

[[06] WeK2-1] Invited Talk **[Online] 13:20-13:45**

Establishment of Alloy Design and Heat Treatment Procedure for Improving Elastic Moduli of Aluminum

Shoichi Hirose (Yokohama Nat'l Univ., Japan)

[[06] WeK2-2] **13:45-14:00**

Influence of Combined Addition of Ca and Y on Tensile and High Cycle Fatigue Properties of Extruded AZ91 Mg Alloy

Ye Jin Kim (Kyungpook Nat'l Univ. Korea), Young Min Kim (KIMS, Korea), and Sung Hyuk Park (Kyungpook Nat'l Univ. Korea)

[[06] WeK2-3] **14:00-14:15**

Acceleration of Precipitation Behavior and Improvement of Mechanical Properties of Extruded AZ80 Magnesium Alloy via Pre-Twinning

Hyun Ji Kim, Ye Jin Kim, Jong Un Lee, and Sung Hyuk Park (Kyungpook Nat'l Univ., Korea)

[[06] WeK2-4] **14:15-14:30**

Changes of Mechanical Properties of Al-Zn-Mg-Cu Cast Alloy According to Heat Treatment

Kwangjun Euh, Yong-You Kim, and Yong Hee Jo (KIMS, Korea)

[[06] WeK2-5] **14:30-14:45**

The Effect of Cu Addition and Pre-Straining on the Mechanical Properties of AA6016 Sheets

Min Cui (KIMS and Changwon Nat'l Univ., Korea), Yong-Hee Jo, Won-Kyoung Kim, Hyoung-Wook Kim (KIMS, Korea), and Je-Hyun Lee (Changwon Nat'l Univ., Korea)