

Program
of
The 115th Conference of Japan Institute of Light Metals
(November, 15-16, 2008, Tokyo)

1. Crystallization behavior of nano-crystalline MgAl alloy prepared by ball-milling and hydriding properties
..... M.Abe , T.Nobuki , T.Kuji
2. Preparation of titanium matrix composites by spark sintering and their friction and wear characteristics
..... K.Matsugi , G.Sasaki , Y.B.Choi , O.Yanagisawa , D.C.Li , H.Kuramoto , T.Oki
3. Consolidation of ADC12 alloy chip by compressive torsion processing
..... T.Takahashi , Y.Kume , M.Kobashi , N.Kanetake
4. Development of high strength P/M aluminum alloy by means of high-velocity impact compression
..... K. Horikawa , S. Makino , K. Watanabe , H. Kobayashi
5. Effect of heating profile on pore morphology of porous magnesium
..... M.Kobashi , K.Maehara , N.Kanetake
6. Effect of heating condition on foaming behavior of aluminum sheet precursor
..... M.Noguchi , K.Kobashi , N.Kanetake , K.Yamana , M.Tanisawa , K.Kinoshita
7. Effect of precursor preparation conditions on pore morphology of Al-Ti foams
..... N.Inoguchi , M.Kobashi , N.Kanetake
8. Solutionizing and ageing behaviors in porous aluminum with high alloying contents
..... Y.Takami , H.Toda , M.Kobayashi , K.UesugiY.Suzuki
9. Fabrication of lotus-type porous Al-Cu alloy by continuous casting technique
..... S. Suzuki , T.B. Kim , H. Nakajima
10. Effects of fabrication parameters on the continuous casting of lotus-type porous Al-Si alloy using the thermal decomposition reaction
..... T.B.Kim , S.Suzuki , H.Nakajima
11. Role of thickening method on aluminum foam fabrication by melt route
..... K.Kadoi , H.Nakae
12. Effect of heat treatment on the mechanical properties of porous AZ91 magnesium alloy
..... S.Oyama , K.Kitazono
13. Enhancement of energy absorption of porous aluminum by surface treatment using resin
..... K. Kitazono , R. Suzuki , Y. Inui
14. Effect of skin layer on compressive properties of porous aluminum
..... K.Isomura , Y.Kume , M.Kobasi , N.Kanetake , Y.Kamimura , S.Okaniwa
15. Microstructures and mechanical properties of porous Ti6Al4V alloy by powder sintering
..... N.Aoyagi , S.Kamado , Y.Kojima
16. Anisotropy of the thermal conductivity for aluminum alloy foam having anisotropic discoid pore
..... R. Suzuki , K. Kitazono
17. Manufacturing of aluminum foam recycled aluminum foil chips by the spacer method
..... J.Sasaki , K.Kitazono
18. Reactive infiltration of molten magnesium in SiO₂/Al₂O₃ blended powder preform
..... Y.Yamada , M.Kobashi , N.Kanetake
19. Microstructure of aluminum composite by reactive infiltration with the titanium oxide agent
..... T.Asai , M.Kobashi , N.Kanetake
20. Characterization of piezoelectric ceramic fiber/aluminum composites
..... H.Asanuma , T.Yanaseko , J.Kunikata , T.Chiba , S.Kishimoto
21. Guided bending of aluminum alloy honeycomb structures
..... F.Kanno , Y.Takayama , H.Kato , H.Watanabe , H.Hino
22. Deformation behavior in bending of aluminum alloy honeycomb structures (1st report)
..... H. Hino , Y. Takayama , H. Kato , H. Watanabe , F. Kanno
23. Control factors of thermal conductivity of MWCNT, CF/Al composites
..... K.Inoue , K.Nakanishi , M.Yoshida , H.Uozumi , T.Tsukada
24. Influence of fiber diameter on thermal conductivity of MWCNT,CF/Al composites
..... H.Uozumi , M.Yoshida , K.Nakanishi , K.Inoue , T.Tsukada
25. Effect of dispersion of carbon nano fiber on properties for pure aluminum matrix composite
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26. Development of "MAXUS" aluminum matrix composite
..... Y.Kamimura , S.Okaniwa , K.Sanada , T.Yamazaki , T.Nishiyama , M.Sonoda , H.Ishii
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..... Y. Oya-Seimiya , T. Shinoda
28. Crystallographic orientation relationship between discontinuous precipitation and the matrix in commercial Mg Alloys
..... T.Gonoji , K.Fujii , K.Matsuda , T.Kawabata , Y.Uetani , S.IkenoT.Kawabata , Y.Uetani , S.Ikeno

29. HRTEM observation of microstructure in Mg-Zn alloy aged up to maximum hardness stage
..... T. Kawabata , K. Matsuda , S. Ikeno
30. Variations of age-hardening response and microstructure in Mg-Ca alloys with Zn additions
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..... K. Fukumori , T. Kawabata , K. Matsuda , S. Ikeno
32. Fatigue properties of Mg-Gd-Cu-Zn-Zr casting alloy
..... T. Ozaki , Y. Kuroki , K. Yamada , S. Maki , S. Kamado , Y. Kojima
33. Microstructures and high temperature tensile properties of AZ91D magnesium alloy based composites reinforced with Si-coated CNF
..... K. Nagai , T. Honma , S. Kamado , Y. Kojima , K. Arai , A. Kato , M. Suganuma
34. Effect of texture on the mechanical properties and formability of AZ31 magnesium alloy sheets
..... Y. Nakaura , J. Sugimoto , A. Watanabe
35. Effect of twin formation by repetitive bending on texture of AZ61 magnesium alloy sheet
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..... S. Maki , T. Ozaki , T. Kabasawa , S. Kamado , K. Yamada , Y. Kojima , Y. Kuroki
38. Microstructure and mechanical properties of Mg-TM-Y(TM=Ni,Cu) system alloys
..... H. Moriyama , T. Itoi , Y. Kuroda , M. Hirohashi
39. Mechanical Properties and its deformation structure of Mg-Ni-Y alloy
..... T. Itoi , H. Moriyama , Y. Kuroda , M. Hirohashi
40. Influence of performance with corona discharge processing on magnesium alloy surface
..... R. Nimura , M. Takaya
41. Coating hardness of magnesium alloys anodized film by caustic alkalies
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42. Electrochemical behavior of AZ91D magnesium alloy with surface treatment
..... Y. Hiramitsu , T. Koike , M. Okido
43. Analysis the surface state developed luster on magnesium alloy surface with or without acid aqueous solution treatment.
..... M. Ohara , Y. Takigawa , K. Higashi
44. Structural control of Mg-Ni alloy film prepared ion beam sputtering
..... Y. Meguro , A. Mitsuo , K. Murata , M. Murakami
45. Test methods to obtain elevated temperature mechanical properties of heat-resistant Mg alloys for prediction of solidification cracking
..... M. Shinozawa , T. Fujii , K. Mitsufuji , M. Yamamoto , K. Shinozaki , A. Tsunetomo , N. Oda
46. Prediction of solidification cracking of heat-resistant Mg alloys during casting using simple shape mold
..... T. Fujii , M. Shinozawa , K. Mitsufuji , M. Yamamoto , K. Shinozaki , A. Tsunetomo , N. Oda
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..... H. Kawabata , N. Nishino , T. Aikawa , K. Ohtake , Y. Genma
48. Effect of alloy composition on castability of Mg-Al₂Ca(Mg) quasi-binary alloys
..... H. Kawabata , N. Nishino , T. Aikawa , K. Ohtake , Y. Genma
49. Development of heat resistant Mg-Al-Bi alloy
..... K. Nagaoka , T. Motegi
50. Reconstruction of creep curve in Mg-Al alloys based on the acceleration parameter in secondary creep
..... H. Sato , K. Sunaga
51. Creep deformation behavior of Mg-Al-Ca alloys
..... K. Ikeda , S. Goto , T. Shibata , M. Takasuga , S. Hata , H. Nakashima , H. Omura
52. Improvement of fatigue characteristic using shot peening of AZ31BMg alloy
..... A. Noguchi , K. Funami
53. Influence of grain size on fatigue properties in extruded AZ31B magnesium alloy
..... S. Tanaka , S. Morita , M. Nakahara , N. Ohno , Y. Kawakami , T. Enjoji
54. (Keynote) Thermomechanical processing and structural control of magnesium alloy
..... T. Sakai , H. Miura
55. Microstructure and mechanical properties of the multi-directionally forged AZ61Mg alloy at decreasing-temperature condition
..... H. Miura , G. Yu , T. Sakai
56. Comparison of recrystallization phenomena in AZ31 Mg alloy and 6061 Al alloy observed on the same view fields
..... A. Yamamoto
57. Microstructure and texture control by warm continuous cyclic bending in an AZ31 magnesium alloy sheet
..... Y. Hokoshiro , Y. Takayama , H. Kato , H. Watanabe
58. Conditions of rolling and annealing to lead AZ31 magnesium alloy into random texture
..... M. Kohzu , K. Kii , H. Nishio , M. Tsujikawa , K. Higashi , H. Inoue
59. Effect of rolling temperature on dynamic recrystallization and tensile properties of AM50 magnesium alloy sheet.
..... N. Kanamori , K. Hirai , H. Ding , T. Honma , S. Kamado , Y. Kojima
60. Microstructure and tensile properties of rolled Mg-6%Al-2%Ca alloy
..... H. Watanabe , M. Yamaguchi , Y. Takigawa , K. Higashi
61. Calculations of stacking fault energies in Mg-based alloys using the first-principles results of segregation energy

- T. Uesugi , K. Higashi
62. First-principles calculation of stacking fault energy for magnesium alloys considering dislocation density and interaction between segregated atoms
..... S.Fujita , T.Uesugi , K.Higashi
63. Effect of solute atoms on stacking fault energy and high temperature deformation characteristics in magnesium alloys
..... S.Uchida , T.Uesugi , Y.Takigawa , K.Kurushima , H.Tsuda , S.Mori , K.Higashi
64. Effect of stacking fault energy on dynamic recrystallization behavior in magnesium alloys
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65. [Keynote] Improvement of mechanical properties of wrought magnesium alloys by grain refinement
..... T.Mukai , H.Somekawa
66. Effect of precipitate morphology on the mechanical property
..... H. Somekawa , Y. Osawa , A. Singh , T. Mukai
67. Effect of Zr on microstructure of hot-extruded Mg-6Zn alloys containing Ag and Ca
..... K. Oh-ishi , C. Mendis , K. Hono , T. Honma , S. Kamado
68. Fabrication of extra high strength Mg-2.0Gd-1.2Y-0.75Zn-0.2Zr (mol%) alloy via hot extrusion
..... T. Honma , N. Kunitoo , S. Maki , Y. Kojima , S. Kamado
69. [Keynote] Importance of deformation twinning in magnesium alloys
..... J.Koike , D.Ando
70. Twin type as a fracture initiation site in magnesium alloys
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71. Effect of Ca content on microstructures and mechanical properties of extruded Mg-2mass%Al-0.3mass%Mn-Ca alloys
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72. Microstructure evolution and mechanical properties of AZ91 through ultrasonic vibration pretreatment
..... Y.Osawa , H.Somekawa , S.Takamori , T.Mukai
73. Comparison of grain refinement behavior of Al and Mg alloy in torsion extrusion
..... K.Mitsui , H.Takahashi , S.Mizunuma , M.Kohzu
74. Influence of die shape on the torsion-extrusion characteristics of Mg alloy AZ31
..... S.Mizunuma , R.Fujise , H.Takahashi , K.Mitsui , M.Kohzu
75. The influence of calcium addition on the microstructural evolution of Mg-9, 10mass%Al-0.7mass%Zn during hot compressive deformation
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76. Effects of RE addition on stretch formability of Mg-Zn alloy
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77. Microstructure and superplasticity of Mg-Li alloys processed by high pressure torsion (HPT)
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78. Orientation distribution in TMAZ of friction stir spot welded single crystal pure aluminum
..... T.Shibayanagi , Adrian Gerlich , K.Kashihara , T.H.North
79. Friction spot joining of 5052 aluminum alloy and AZ31 magnesium alloy
..... T.Hirata , T.Morishige , T.Tanaka , M.Tsujikawa
80. Weldability of 1050 aluminum and magnesium alloy thin sheets by friction stir welding
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..... M.Araki , S.Kumai , M.Watanabe , T.Aizawa , K.Okagawa
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90. Pitting corrosion of Al alloy under marine atmosphere environment
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91. Dissolution behavior of aluminum alloy in deionized water
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92. A study of discoloration of the aluminum alloy by low-temperature water
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93. Formation of micro-pit by laser fabrication in solution and dissolution behavior of formed micro-pit
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95. Corrosion of Al alloys in hot alcohols -Effect of solution composition on corrosion behavior -
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96. Corrosion behavior of aluminum alloy 6063 in gasoline mixed with ethly alcohol
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..... N.Kobayashi , T.Owaki
98. A comparative electrochemical study of AZ31 and AZ91 magnesium alloy
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99. Corrosion resistance and coating adhesion of magnesium alloys converted with zirconium phosphate
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100. Effect of ion-plating condition on the detection of hydrogen in microprint technique in aluminum
..... T.Shikagawa , Y.Suzuki , I.Nakatsu , I.Goroh , N.Itoh
101. Self-healing corrosion protective coatings of aluminum alloy
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102. Formation of aluminum film with Supersonic Free-Jet PVD using different barrel design in nozzles
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104. Deodorization characteristic evaluation method of pre-coated aluminum fin-stocks
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105. Effects of resins in coating films on properties of pre-coated aluminum sheet by UV irradiation
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106. Microstructure and texture control in the surface layer of titanium sheet by Friction roll surface processing and subsequent annealing
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109. Microstructure and Mechanical Properties of HPT-Processed Ti
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110. Improvement in mechanical properties of Ti-29Nb-13Ta-4.6Zr alloy by cold working and brief heat treatment.
..... T. Oneda , M. Niinomi , M. Nakai , T. Akahori , H. Tsutsumi , M. Ogawa
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..... T. Akahori , M. Niinomi , M. Nakai , H.Tsutsumi , M. Ogawa
112. Effect of oxygen addition on aging precipitation and mechanical properties of Ti-29Nb-13Ta-4.6Zr alloy
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113. Mechanical biocompatibility of implant rods made of Ti-29Nb-13Ta-4.6Zr alloy for spinal fixture
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116. Making of horizontally semisolid continuous casting billet of AZ91D magnesium alloy using an inclination cooling plate
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117. Producing and properties of magnesium alloy strip in the model experiment of melt drag process
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118. Producing the rapidly-solidified Al-Cu hybrid rod by application of melt drag process and the properties
..... S.Kishino , Y.Inagaki , S.Watanabe , T.Ogawa , S.Nishida , M.Motomura
119. Manufacturing of quenched clad rod by the applied melt drag process with a pair of grooved rolls and its characteristic
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..... S.Kimura , H.Tanaka , H.Nakashige , S.Nishida , M.Motomura
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..... Y.Yoshihara , S.Nishida , M.Motomura
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124. Effects of additional elements on hot tearing tendency on Al-Mg-X multinary alloys
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- Y.Ishiwata , K.Oda , S.Komarov
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131. Characteristics of inclusion removal by rigid media filter
..... S.Tani , Y.Watanabe
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..... K. Shimizu , H. Toda , M. Kobayashi , K. Uesugi , Y. Suzuki
134. Two-step aging of a 7N01 aluminum alloy
..... T.Umeda , S.Komatsu , K.Kawamura , S.Futagawa
135. PFZ formation behavior and mechanical properties of Al-Zn-Mg alloys with refined grains by additional elements
..... T. Otani , A. Serizawa , H. Tezuka , T. Sato
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..... S.Masuda , H.Toda , S.Aoyama , S.Orii , S.Ueda , K.Uesugi
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138. Fatigue properties of 6063 aluminum alloys joined by FSW under two-step variable plane bending
..... A.Koyama , T.Takase , Y.Hayashi
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..... Y. Miyashita , Y. Ochi , S. Ishihara , K. Kondoh , N. Aoyagi , Y. Furuya , H. Hirukawa , S. Kamado
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..... S.Osaki , N.Maeda , I.Morita , M.Nakai , H.Yabuta
143. Visualization of hydrogen accumulation during impact deformation in 6061 and 7075 aluminum alloys
..... H.Yamada , K.Tanigaki , K.Horikawa , K.Watanabe , H.Kobayashi
144. Slow strain rate testing on notched specimens of Al-Mg-Si alloys.
..... T.Aoki , F.Tanabe , M.Kanno , T.Motegi
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146. Rapid heating and mechanical properties of 6061 aluminum alloys using high-frequency induction heating apparatus
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149. Effect of thickness by new shearing for 1100 aluminum sheet metal
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150. Influence of original bending radius on forming limit of incremental stretching of flattened aluminum sheet
..... H.Takano , K.Kitazawa
151. Effect of sub-orientations on the bendability of Al-Mg-Si alloy
..... M.Asano , S.Ikawa , Y.Ozeki , H.Yoshida
152. Evaluation of CO₂ emission reduction for cold recycling process of aluminum sheet
..... H.Takano , K.Kitazawa
153. Development of HPS of Severe Plastic Deformation and application to sheet form of light metal
..... T.Fujioka , Z.Horita
154. Effect of torsion number on internal strain distribution of specimen processed by compressive torsion processing
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..... Y.Tsuburaya , M.Motomura
156. Tensile properties and blowing formability of AZ61 and AM60 magnesium alloy sheets at elevated temperatures
..... T. Uno , M. Sugamata
157. Prediction of forming limit of AZ31 alloy sheets under non-proportional deformation at elevated temperature
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163. Effects of alloy composition on the formation of nanoclusters in Al-Mg-Si alloys
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164. Effect of cold working on nanocluster formation and bake-hardenability in an Al-Mg-Si alloy
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165. Effects of direct-quench conditions on natural aging and bake-hardening response of Al-Mg-Si alloys
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168. Effect of Ag addition on crystal structure transition of β' -phase by aging time
..... J. Nakamura , K. Matsuda , T. Sato , Y. Nakamura , S. Ikeno
169. Effect of additional elements on precipitation sequence in Al-Mg₂Si alloy at 423K
..... K.Niwa , J.Nakamura , K.Matsuda , T.Sato , S.Ikeno T.Sato , S.Ikeno
170. Microstructural control for improving creep characteristics of a 3003 aluminum alloy
..... Y.Ogaki , S.Yokawa , S.Hirosawa , M.Ando , A.Niikura , Y.Suzuki
171. Quantitative relationship between microstructures and creep strength of a 3003 aluminum alloy
..... S.Yokawa , Y.Ogaki , S.Hirosawa , M.Ando , A.Niikura , Y.Suzuki
172. Microstructure change by friction stir processing in P/M 7000 series alloys
..... H.Adachi , Y.Miyazaki , Y.Yamamoto , A.Tanaka , J.Kusui , K.Ikeuchi
173. Microstructure refinement of continuous cast Al-Si base alloy by compressive torsion processing
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174. Microstructure and mechanical property of heat treated AC4C aluminum alloy processed by compressive torsion processing
..... K.Kato , Y.Kume , M.Kobashi , N.Kanetake
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..... S.Suzuki , Y.Takayama , H.Kato , H.Watanabe
176. In site EBSD analysis of cube orientation formation in high purity aluminum foils with a small amount of nickel
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179. Effect of deformation constraints on the texture formation of Al-5mass%Mg alloy at high temperatures
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