

Program  
of  
The 112nd Conference of Japan Institute of Light Metals  
(May, 11-12, 2007, Toyama)

1. Analysis of infiltration behavior of molten aluminum alloy to reinforcement preform with low-pressure  
..... G.Sasaki,T.Yamanaka,K.Matsugi
2. Microstructure and superconducting property of extruded MgB<sub>2</sub>/Al composite material  
..... M.Morobayashi,K.Matsuda,S.Aoyama,K.Nishimura,S,Ikeno,Y.Yabumoto,Y.Hishinuma
3. Fabrication of a piezoelectric ceramic fiber/aluminum composite and its characterization  
..... H.Asanuma,N.Takeda,T.Chiba,H. Sato
4. Mechanical properties of 6061 aluminum alloy matrix composites including gummetal powder  
..... Y.Hirose,S.Nakajima,K.Horikawa,H.Kobayashi
5. Fabrication of nitride ceramic composite by reactive infiltration of the titanium nitride powder with molten aluminum  
..... Y.Kobayashi,T.Oda,M.Kobashi,N.Kanetake
6. Combustion synthesis of TiC-based hard alloy and its mechanical properties  
..... K.Kojima,K.Matsuura
7. Effects of process condition on pore morphology in porous Al-Si alloy  
..... N.Aoyagi,A.Gocho,S.Kamado,Y.Kojima
8. Mechanical property of metal fiber reinforced Mg alloy composites  
..... H.Uozumi,K.Kobayashi,C.Masuda,M.Yoshida,G.Sasaki,T.Shiraishi
9. [Keynote]  
..... G.J. Shiflet
10. A Comparison Between Low Density Mg- and Al-based Metallic Glass Ribbons  
..... G.J. Shiflet,S.J.Poon,F.Q.Guo
11. Non-equilibrium nano-structures and mechanical properties of melt-spun Al-Ni-Gd metallic glasses  
..... S.Hirosawa
12. [Keynote]  
..... H.Kimura
13. Fracture toughness of extruded Mg-Zn-Y alloy containing quasicrystal phase  
..... H.Somekawa,A.Singh,T.Mukai
14. The manufacturing condition and the characteristic of RS Mg<sub>97</sub>Zn<sub>1</sub>Y<sub>2</sub> alloy by single-roller melt spinning technique  
..... H.Okouchi,S.Matsumoto,M.Nishida,Y.Kawamura,K.Enomoto
15. Microstructures and mechanical properties in Mg-Y-Zn alloys microalloying fourth element.  
..... M.Suzuki,K.Tsuchida,K.Maruyama
16. [Keynote]  
..... T.Mukai
17. Synthesis of high-strength Al-Fe alloy by mechanical milling and spark plasma sintering  
..... T.Sasaki,T.Mukai,K.Hono
18. Synthesis of Al<sub>85</sub>Ni<sub>10</sub>La<sub>5</sub> alloy by spark plasma sintering  
..... T.Sasaki,M.Wollgarten,K.Hono
19. [Keynote]  
..... Y.Kawamura
20. Microstructure and mechanical properties of LPO phase-containing Mg-Zn-RE alloys produced by consolidation of rapidly solidified ribbons  
..... Y.Kawamura,M.Kim,Y.Sakamoto,M.Yamasaki
21. Mechanical properties and microstructure evaluation of extruded Mg-Zn-Y with long period ordered structure  
..... M.Yamasaki,H.Tamagawa,K.Hagihara,Y.Umakoshi,K.Higashida,Y.Kawamura
22. Passivation of rapidly solidified Mg-Zn-Y alloys with long period ordered structure by addition of fourth element  
..... S.Izumi,M.Yamasaki,Y.Kawamura
23. Investigation on concentration of hydrogen trapped in micro pores in an aluminum alloy  
..... T.Hidaka,H.Toda,M.Kobayashi,T.Kobayashi,K.Uesugi,K.Horikawa
24. Effect of exposure to an SO<sub>2</sub> atmosphere on the hydrogen absorption behavior in Al-Mg alloys during subsequent annealing  
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25. Effect of fabrication conditions and Cr,Zr contents on the grain structures of 7075 alloy used for hydrogen gas vessel's liner  
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27. Improvement of mechanical property of Al-Mg-Si alloys by two rapid heating step aging  
..... M.Motoe,H.Toda,M.Kobayashi,T.Kobayashi

28. Effect of pre-aging on precipitation behavior at RT in Al-Mg-Si alloy  
..... K.Takata,M.Saga,K.Ushioda,J.Takahashi,A.Hibino,M.Kikuchi
29. HRTEM observation of the rod shaped metastable phase at underaging in Ag added Al-Mg-Si alloy  
..... J.Nakamura,K.Matsuda,T.Sato,Y.Nakamura,S. Ikeno
30. Effect of step-quenching treatment and reversion treatment on low-temperature aging of Al-Mg-Si alloy  
..... S.Irikura,Y.Nakayama
31. Development of very strong cube recrystallization textures in an AA6111 Al alloys  
..... H.Inagaki,S.Suzuki
32. Analysis of recrystallization process of pure aluminum foil by in-situ heating EBSP technique  
..... K.Ikeda,N.Takata,Y.Miyata,H.Nakashima
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34. Microstructure of Al-3mass%Mg alloy spot heated utilizing a fiber-laser system  
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36. Characteristics of eutectic system Al-Si alloy billets produced by various continuous casting process  
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38. Development of precision forging process for hyper-eutectic Al-Si alloy  
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40. Development of free cutting and wear resistance aluminum extrusion materials  
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41. Effect of product conditions for bake-hardenability aluminum extrusion materials  
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42. Deformation microstructure of cold-rolled pure aluminum single crystal having cube orientation  
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43. Proposal of differential-friction rolling as asymmetric rolling and improvement in formability  
..... T.Ueno,H.Utsunomiya,T.Sakai
44. Precipitation process during aging in metastable  $\beta$  titanium alloy TIMETAL<sup>®</sup>LCB  
..... T.Sakamoto,M.Maeda,K.Nakai,S.Kobayashi
45. Effect of Al content on phase constitution and heat treatment behavior of Ti-13mass%Cr-Al alloys  
..... S.Doi,M.Hatanaka,M.Ikeda,M.Ogawa
46. Influence of cold-rolling on various properties of Ti-20V-4Al-1Sn alloy  
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..... T.Akahori,M.Niinomi,M.Nakai,M.Ogawa
49. Observations of voids in aluminum shell formed by an incremental process  
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50. Incremental bending of shaped beams  
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51. Stretch Bending for Rectangular Tube  
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52. Conical Nosing of Tube using Non-Circular Tapered Die  
..... M.Murata,Y.Ohde,T.Kuboki
53. Effect of Mn and Zr multiple additions on microstructure of P/M 7000 series aluminum alloy  
..... Y.Yamamoto,H.Adachi,Y.Morimoto,K.Osamura,J.Kusui
54. Microstructure and mechanical properties of ternary intermetallic compound dispersed P/M Al-Mn-X-Zr alloys  
..... H.Adachi,W.Itaka,T.Aida,K.Osamura,M.Imaoka,J.Kusui
55. Effect of mechanical alloying on age-hardening of precipitation hardening aluminum alloys  
..... Y.Nagano,M.Sugamata,M.Kubota,J.Kaneko
56. Effect of alloy composition on high temperature strength of rapidly solidified Al-Fe-Ni-Mg alloys  
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58. Mechanical properties of butt welded pure titanium sheet ..... T.Asahina,Y.Itoh
59. Character of MIG welding joints between aluminum alloy and steel ..... T.Fukuda,M.Kumagai,K.Nanba
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61. Effect of surface condition on flowing behavior in aluminum brazing process ..... Y.Osame,Y.Kanno
62. Effect of welding conditions for stability of aluminum stud bolt welding ..... J.Shinmura,S.Murakami
63. Weldability and joint property between aluminum alloys by laser welding ..... S.Tomida,T.Nagae,K.Takeshita
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65. Crystal orientation dependence on magnesium ultraprecision cutting ..... S.Miki,H.Okada,K.Aoki,M.Ogawa,K.Matuzawa
66. Expansion of stirred zone in FSW using solid lubricant ..... Y.Takeda,M.Tsujikawa,S.Oki,S.W.Chung,K.Higashi
67. Microstructure and mechanical properties at unsteady part of non-linear FSW ..... H.Takahara,M.Tsujikawa,S.W.Chung,Y.Okawa,K.Higashi
68. Characteristics of friction stir welding in 2014 aluminum alloy ..... Y.Nagano,Y.Osame
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70. Effect of solution treatment on ECAP formability of AC4CH aluminum casting alloy ..... T.Miyazaki,Y.Nakayama
71. Aluminide coating of titanium by arc surface melting method ..... N.Mizuta,K.Matsuura
72. Corrosion behavior of non-chromate conversion coated magnesium alloys ..... A.Konno,K.Nishinaka,M.Senzaki,H.Umehara,M.Takaya
73. Plasma thermal spraying of Alminun on Mg-Li alloy ..... M.Tsujikawa,S.Adachi,S.Oki,Y.Abe,M.Kamita
74. Effect of alloying elements on the film characteristic of anodized magnesium alloy ..... M.Hino,K.Murakami,M.Hiramatsu,A.SaijoT.Kanadani
75. Effect of pretreatment on electroless nickel-phosphorus plating for commercial pure aluminum ..... K.Murakami,M.Hino,M.Hiramatsu,T.Kanadani,K.Osamura
76. Cathodic polarization characteristics and corrosion behavior of aluminum in a synthetic sea water ..... O.Seri,T.Toshima
77. Effects of black particulates in coating films on heat radiating and general properties of pre-coated aluminum sheet ..... T.Maezono,M.Tongu,M.Saito
78. Effects of coated film characteristics on corrosion resistance of formed pre-coated aluminum ..... N.Hattori,M.Tanigawa,Y.Kawade,M.Okido
79. Effects of facters on corrosion resistance of chemical conversion cating ..... K.Katou
80. Effect of pH and temperture for corrosion behaviors of aluminum alloy in alkaline solution under heat cyclic conditions ..... T.Onda,Y.Kojima
81. Sacrificial anodic effect and corrosion resistance of fin stock for automotive heat exchangers ..... M.Yoshino,M.EDO,M.Asano
82. Influence of heat treatment after brazing on intergranular corrosion susceptibility of Al-Si alloy ..... J.Ninomiya,Y.Oya,S.Tanaka,Y.Kojima
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85. A study of the thin film analysis in EPMA  
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86. Texture evaluation of metal surfaces  
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87. Magnesium alloy research using EBSD  
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88. Textures in 6061 aluminum alloy induced by a repeated cross roll-forming  
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89. Relationship between rolling and recrystallization textures and precipitation in 6061 aluminum alloy  
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90. Effect of crystallographic texture on n value of the Al-Mg-Si alloy sheets  
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91. Characteristics of nanoclusters in Al-Mg-Si alloys in terms of tensile deformation behavior  
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92. Effect of Mn on creep properties of wrought aluminum alloy sheets  
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93. Assessment of the hydrogen in some medium-strength aluminum alloys  
..... G. Itoh, T. Suzuki, T. Izumi, N. Itoh, Q. Cui, S. Horikawa, T. Inami
94. Effect of aging on hydrogen evolution behavior of an Al-Mg-Si alloy at the moment of fracture  
..... K. Horikawa, H. Nishio, H. Kobayashi, K. Yamada,
95. Production of hydrogen by magnesium cutting  
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96. Fatigue fracture pattern of a 6XXX-series aluminum alloy sheet tested under controlled experimental humidity  
..... K. Ichitani, K. Koyama
97. Effect of humid air environment on the deformation behaviors of 6061 aluminum alloys under slow strain-rate tensile tests  
..... S. Osaki, J. Ikeda, T. Harano, K. Ichitani, P. Zhao, Y. Takeshima
98. Microstructure in the neighborhood of grain boundaries resulting from aging-treatment in an Al-0.5%Si-0.5%Ge alloy  
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..... H. Yamada, K. Horikawa, H. Kobayashi
100. Effects of thermo-mechanical treatment on the formation of cube-oriented grains in 6000 aluminum alloy  
..... Y. Miyata, T. Yoshihara, N. Takata, K. Ikeda, H. Nakashima
101. Effect of temper and chemical composition on stress relaxation characteristics of 5182 alloy  
..... M. Koide
102. Microstructural evolution in continuous cyclic bending and subsequent annealing of a 5083 aluminum alloy  
..... Y. Takayama, T. Fujita, M. Yamaguchi, H. Kato, H. Watanabe
103. Crystal-orientation and strain rate dependence of high-temperature deformation behavior of Mg single crystals  
..... H. Miura, X. Yang, T. Sakai, Y. Shioya, Y. Watanabe, S. Miura
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..... Y. Watanabe, T. Sakai, H. Utsunomiya
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106. Texture and formability in roll-bonded AZ31Mg/Ti clad sheets  
..... H. Inoue, S. Mizutani, M. Ishio, T. Takasugi
107. Influence of forging processing to give to a formability of AZ31 magnesium alloy sheets  
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108. Influence of melt drag process on the mechanical properties of magnesium alloy strip  
..... S. Nishida, K. Sasage, Y. Suzuki, M. Motomura
109. Influence of mechanical properties of Al addition on magnesium alloy sheets  
..... Y. Takahashi, M. Katsuta
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..... K. Hamamura, S. Morita, S. Tanaka, N. Ohno, Y. Kawakami, T. Enjoji
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..... S. Mori, T. Kawabata, K. Matsuda, S. Ikeno
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..... K. Oh-ishi, K. Hono, K. S. Shin

113. Enhanced Age hardening of Mg-Zn-Zr alloys by trace additions of Ag and Ca  
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115. Aging behavior and mechanical properties of extruded Ca added magnesium alloys  
..... K.Shimizu,A.Nakagawa,T.Yamashita,H.Mukaiyama
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..... T.Yamaguchi,H.Fukuhara,K.Saito,Y.Kawamura
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122. Effect of high temperature aging before extrusion on the mechanical properties of the Mg-Zn-Gd alloy  
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127. Characteristic of magnesium matrix composite dispersed with carbon fiber coated by Mg films  
..... K.Kondoh,K.Kawabata,H.Oginuma
128. High temperature deformation characteristics of extruded Mg-6Al-2Ca alloy  
..... H.Watanabe,M.Yamaguchi,Y.Takigawa,K.Higashi
129. Effect of heat treatment on the mechanical properties and microstructure in AZ91E cast Mg alloy  
..... K.Fujii,T.Kawabata,K.Matsuda,S.Ikeno
130. Review of mechanical properties of various alloys in mushy zone  
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132. Improvement of the Ohya-method to obtain mechanical properties of semi-solid aluminum alloys.  
..... H.Chiba,H.Yamagata,M.Yoshida
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145. Effect of cladding layer strength on fatigue behavior of aluminum cladding alloy  
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..... M.Kobayashi,H.Makino,H.Toda,T.Kobayashi,K.Uesugi
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- P07. Dependence of crystallographic orientation on tensile deformation in Al-Mg-Si alloys  
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- P10. Behavior of hydrogen in 7075 aluminum alloys deformed under a moist air  
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- P11. Mechanical properties and machinability of addition various low melting elements to Al-Cu alloys  
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- P13. Manufacturing of open-cell foam from recycled aluminium foil chips  
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- P14. Fabrication of high performance active laminates and their characterization  
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- P16. Mechanical properties of 6061 aluminum alloy/SPCC steel joint by friction spot welding  
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- P17. Microstructure and mechanical properties of friction stir welded joints of Al-Mg-Sc alloy  
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