

Program  
of  
The 113rd Conference of Japan Institute of Light Metals  
(November, 10-11, 2007, Chiba)

1. Thermal desorption spectroscopy study on the hydrogen trapping states in a pure aluminum  
..... T.Iuzmi, G.Itoh, S.Horikawa
2. Effects of temper condition on the hydrogen behavior in a 7075 aluminum alloys  
..... G.Itoh, Y.Arai, S.Igarashi, T.Izumi, N.Itoh, H.Yabuta
3. The dependence of Zn content on the isothermal precipitation process in an Al-Zn-Mg alloy  
..... T.Sakata, M.Takeda, M.Mitome
4. Aging behavior and mechanical properties of Al-Ag alloys processed by severe plastic deformation  
..... T.Fujioka, Z.Horita
5. Microstructure control by CCB/ annealing and corrosion behavior in 5000 series aluminum alloys  
..... Y.kido, Y.Takayama, H.Kato, H.Watanabe
6. In-situ EBSD in a recrystallization process of Al-Mg alloy  
..... K.Morita, Y.Takayama, H.Kato, H.Watanabe, Y.Ookubo
7. The effect of joining condition on recrystallization in FSW joint of a 5083 aluminum alloy sheet  
..... K.Matsuda, M.Asano, M.Kumagai, H.Yoshida
8. Microstructure and mechanical property in AZ61 Mg alloy by compressive torsion processing  
..... K.Tsutsui, N.Kanetake, M.Kobashi, Y.Kume
9. Influence of the Mg concentration to the precipitation behavior in an Al-Mg-Si alloy at 483K  
..... K.Yamauchi, M.Takeda, M.Oguri, M.Mitome, Y.Fukui
10. Effect of pre-strain on nano-cluster formation and bake hardening response in an Al-Mg-Si alloy  
..... T.Yamada, T.Ogura, T.Sato
11. Influence of quenching conditions on BH response in Al-Mg-Si alloys  
..... K.Fukawa, T.Sato, T.Ogura
12. Analyses of the precipitation behavior of the L12 ordered phase by 3DAP and computer simulation  
..... K.Atsuma, T.Ogura, T.Sato
13. Effect of rolling on crystallographic orientation and tensile deformation in Al-Mg-Si alloys  
..... K.Horiba, J.Tsukiyama, K.Matsuda, Y.Uetani, S.Ikeno
14. Effect of short-time heating on two step aging behaviour of Al-Mg-Si alloys  
..... S.Irikura, Y.Nakayama
15. Effect of Ag, Cu addition on precipitates in ex. Si type Al-Mg<sub>2</sub>Si alloy  
..... K.Niwa, J.Nakamura, K.Matsuda, T.Sato, S.Ikeno
16. Precipitation sequence in an Al-Mg-Ge alloy of the Ge density is different  
..... M.Tai, J.Nakamura, K.Matsuda, S.Ikeno
17. Microstructure in the neighborhood of grain boundaries resulting from aging-treatment in an Al-0.5%Si-0.5%Ge alloy  
..... K.Nakagawa, T.Kanadani, Y.Takeuch, N.Morimoto, G.Itoh
18. Aging phenomena after brazing of Al-Mn based alloys containing Mg  
..... M.Ando, A.Niikura, Y.Suzuki, Y.Bekki
19. Three-dimensional elemental mappings of zinc and copper in aluminum alloys  
..... K.Shimizu, H.Toda, M.Kobayashi, T.Kobayashi, Y.Suzuki, K.Uesugi
20. Control of Mn-Containing Dispersoids in a DC-cast Al-Mg-Si-Mn Alloy  
..... R.Hu, T.Ogura, H.Teizuka, T.Sato
21. Measurement of solute concentration in  $\alpha$  solid solution of Al-Mg-Mn and Al-Mn-Si alloys  
..... M.Okada
22. Effect of temperature and SPD method on formation of high angle boundaries and new grain structures in aluminum alloy  
..... T.Sakai, I.Mazurina, H.Miura
23. The formation process of cube-oriented grains in 6000 aluminum alloy  
..... Y.Miyata, T.Yoshihara, N.Takata, K.Ikeda, S.Hata, H.Nakashima
24. Formation of {111} recrystallization texture in 6022 aluminum alloy sheets produced by symmetric and asymmetric rolling  
..... H.Inoue, M.Hori, S.Kobayashi, T.Komatsubara, T.Takasugi
25. EBSD analysis of grain boundaries and orientation distributions in Al-Mg alloys subjected to superplastic deformation  
..... T.Komatsubara, H.Inagaki
26. Increase of Lankford value in aluminum alloy sheets by asymmetric warm rolling  
..... T.Komatsubara, Y.Ueno, Y.Miki, H.Takeda
27. [Keynote] Development of titanium alloys for consumer product  
..... M.Ogawa
28. [Keynote] Research and development of light metals for health-care goods  
..... M.Ikeda
29. [Keynote]  
..... Y.Ishimaru
30. [Keynote] In vivo and vitro evaluation of titanium materials coated with calcium phosphate film  
..... T.Narushima
31. Hydroxyapatite coating of porous Ti substrate by electrodeposition

- ..... A.Kodama, H.Asoh, C.Ogasawara, T.Oonisi, S.Ono
32. Characteristics of biomedical porous pure titanium/biomedical polymer composites  
..... H.Yamanoi, M.Niinomi, T.Akahori, M.Nakai, S.Itsuno, N.Haraguchi, Y.Itoh, T.Ogasawara
33. [Keynote] Biomedical application of magnesium alloys  
..... A.Yamamoto
34. Mechanical properties of TNTZ alloy fabricated by various mechanical processings  
..... T.Akahori, M.Niinomi, M.Nakai, M.Ogawa
35. Effects of alloying elements on HAp formability of Ti-Nb-Ta-Zr system alloy  
..... H.Ashidate, M.Niinomi, T.Akahori, M.Nakai
36. [Keynote] Biofunctionalization of titanium with immobilization of functional molecules  
..... T.Hanawa
37. Surface modification of Ti by hydrothermal treatment and formability of HAp  
..... M.Ueda, R.Matsunaga, M.Ikeda, M.Ogawa
38. Effect of Al content on phase constitution and heat treatment behavior of Ti-10mass%Cr-Al alloys  
..... M.Ikeda, S.Do, S.Sakata, M.Ueda, M.Ogawa
39. Friction property of anodic oxide coating of Ti alloy impregnated with molybdenum sulfide and zinc compound  
..... M.Takaya, M.Maejima
40. Change in thermal expansion characteristics of Ti-29Nb-13Ta-4.6Zr by cold rolling  
..... M.Nakai, M.Niinomi, T.Akahori, M.Ogawa
41. Mechanical functionalities of Ti-Nb-Ta-Zr-O system alloys with various Nb and O contents  
..... T.Ono, M.Niinomi, T.Akahori, M.Nakai
42. Microstructures and mechanical properties of Gum Metal sheets  
..... R.Aoto, S.Yokoi, G.Itoh, Y.Motohashi
43. Microstructure and texture after annealing in titanium severely strained by means of friction roll processing  
..... M.Shi, T.Umetsu, Y.Takayama, H.Kato, H.Watanabe
44. Temperature measurement by radiation thermometer in aluminum alloy  
..... F.Shang, E.Sekiya, Y.Nakayama
45. In-Situ EBSD observation of recrystallization process in Magnesium alloy  
..... M.Nishizawa, K.Mori, Y.Oishi, N.Kawabe
46. Development of automatic metrology of inclusions in PoDFA sample  
..... H.Matsushima, Y.Kuramasu, T.Isobe, T.Nagao, J.Ando
47. Development of microstructural features tracking method for high-precise 3-D strain measurement by X-ray CT  
..... Y.Kawai, M.Kobayashi, H.Toda, T.Kobayashi, K.Uesugi, Y.Aoki, M.Nakazawa
48. Fabrication of lotus-type porous aluminum alloys by continuous casting and effect of alloy elements  
..... S.Suzuki, J.S.Park, T.B.Kim, H.Nakajima
49. Effect of alloy compositions on mechanical properties of rapidly solidified Al-Fe-Mg alloys at elevated temperatures  
..... K.Takami, M.Sugamata, J.Kaneko, M.Kubota
50. Characteristics of ultrasonic cavitation in aluminum melts  
..... S.Komarov, K.Oda
51. Refinement of crystalline structure due to ultrasonic treatment of aluminum alloys  
..... K.Oda, S.Komarov, Y.Ishiwata, T.Tsuchida, I.Okamoto
52. Effects of Fe content on mechanical properties of 6061 aluminum alloy sheets fabricated by high-speed twin-roll cast plates  
..... Y.Hori, S.Kumai, K.Tokuda, Y.Nagata, Y.Arai
53. Brake property of recycle-typed iron-aluminide based alloy  
..... T.Itoi, Y.Watanabe, K.Yoshimi, H.Kimura, M.Hirohashi
54. Control of cell morphology of porous aluminum manufactured from aluminum foil chips  
..... J.Sasaki, K.Kitazono
55. Evaluation of machining performance of recycle-typed iron aluminide based alloys reinforced by several carbides  
..... Y.Nishikawa, Y.Watanabe, T.Itoi, K.Yoshimi, H.Kimura, M.Hirohashi
56. Effects of alloy composition and testing temperature on impact tensile properties in Al-Mg-Si base alloys  
..... H.Yamada, K.Horikawa, H.Kobayashi
57. Influence of surface micro-structure on bendability for Al-Mg-Si alloy  
..... K.Tokuda, S.Kumai
58. Effect of crystallographic orientation of grains on tensile deformation in Al-Mg-Si alloys with Cu  
..... J.Tsukiyama, K.Matsuda, Y.Uetani, S.Ikeno
59. Change in strength and ductility of high purity aluminium processed for grain refinement using HPT  
..... Y.Ito, Z.Horita
60. Slow strain rate testing in Al-5%Mg alloys containing different amount of micro pores  
..... K.Horikawa, H.Kobayashi, H.Toda
61. Influence of micro pore on ductile fracture of aluminum alloys  
..... T.Hidaka, H.Toda, M.Kobayashi, T.Kobayashi, Y.Suzuki, K.Uesugi, K.Horikawa
62. Relationships between internal micro-pore and fracture strength of an Al-Si-Mg Alloy  
..... Y.Dorce, H.Toda, M.Kobayashi, T.Kobayashi

63. Effect of humid air environment on the fatigue crack growth behaviors of 6061 aluminum alloy  
..... S.Osaki, T.Harano, Y.Yabuta
64. Effect of grain size on the fatigue properties of 6061 & 7075 alloy sheets used for hydrogen gas vessel's liner  
..... PZ.Zhao, T.Kobayashi, T.Tsuchida, Y.Takeshima, K.Ichitani
65. Fatigue characteristics of notched aluminum specimens subjected to thermal history  
..... M.Itoh, N.Marukado
66. Effect of stress ration on fatigue property of an AZ61 extruded magnesium alloy  
..... Y.Miyashita, T.Yanase, Y.Murayama, M.Sugisawa, N.Aoyagi, Y.Mutoh
67. Precipitation, recrystallization and texture formation in 6000 series alloys  
..... H.Inagaki
68. Effect of deviation from ideal orientation on development of deformation structure in cold-rolled aluminum single crystal having cube orientation  
..... K.Kashihara, T.Shibayanagi, H.Inagaki
69. Effect of Ni on Cube texture in high purity aluminum  
..... A.Yoshii, H.Watanabe
70. Recovery and recrystallization of aluminum single crystals compressed along  $\langle 001 \rangle$  and  $\langle 011 \rangle$  directions  
..... D.Noguchi, A.Ikeda, M.Tagami, T.Okada
71. Inhomogeneous deformation near triple junction in pure aluminum tricrystal deformed in compression  
..... K.Kashihara
72. Detailed observation of pure aluminum rolling textures by EBSP measurement  
..... F.Seki
73. Effect of heat treatment on ECAP formability of AC4CH aluminum casting alloy  
..... T.Miyazaki, Y.Nakayama
74. Deformation band and strain rate of tensile deformed 5083 aluminum alloy plate  
..... K.Yamada, Y.Nakayama
75. Effect of Mg and Cu on creep properties of Al-Mn alloy sheets  
..... N.Sakaguchi, H.Tanaka, H.Yoshida
76. Effect of forming conditions on the warm drawability of Al-Mg-Si alloy sheet  
..... M.Asano, H.Yoshida
77. Tensile property and microstructure refinement of hypereutectic Al-Si alloy by compressive torsion processing  
..... S.Tahara, Y.Kume, M.Kobashi, N.Kanetake
78. Compression property of Al-5%Mg alloy refined by compressive torsion processing  
..... Y.Kume, M.Kobashi, N.Kanetake
79. Grain refinement and mechanical properties of aluminum alloy using ring-HPT  
..... Y.Harai, Z.Horita
80. High temperature deformation behavior of Mg-Al-Ca Die-cast alloys in low stress region  
..... S.Goto, M.Takasuga, K.Ikeda, S.Hata, H.Nakashima, H.Omura
81. High temperature deformation of friction stir processed 5083 aluminum alloy  
..... K.Kimisaki, T.Itou, M.Fujiwara
82. Effect of temperature descent on formability in metal sheets  
..... H.Motegi, M.Yoshimizu, Z.Jindrich, K.Koiwai, H.Ohsawa
83. Change of creep rate and creep characteristics in Mg-Al binary alloys at high temperatures  
..... H.Sato
84. Microstructure and mechanical properties of Zn-22mass%Al eutectoid alloy containing Sn  
..... Y.Takabayashi, F.Sato, T.Itoi, M.Hirohashi
85. Blow forming on 6000 series aluminum alloy with using miniature type dies of an oil pan for automotive usage  
..... T.Yamamoto, A.Yamamoto, H.Tsubakino, H.Iwasaki, K.Matsumoto, T.Sakurai
86. L bending of sheet metal  
..... Y.Jin, J.Koyama, K.Imai
87. Spinning of aluminum tube using conical die with escape  
..... M.Murata, T.Kuboki, Y.Ode
88. Formability evaluation of 6022 aluminum alloy sheets by asymmetric warm rolling  
..... Y.Ueno, T.Komatsubara, A.Tajiri, K.Koyama, Y.Miki, H.Takeda
89. Development of precision forging process for new hyper-eutectic Al-Si alloy  
..... K.Kanbara, N.Miyamoto, T.Sekiguchi
90. Relation between condition and mechanical property by friction welding  
..... S.Sumi, K.Mizuguchi, H.Mochizuki, K.Nakakura, H.Okada
91. Friction welding of aluminum alloy casts, AC4CH  
..... T.Shinoda, K.Nanbu, Y.Katsuragi
92. Multilayered seam welding by applying magnetic pressure for sheet metal  
..... K.Okagawa, K.Matsuzawa, T.Aizawa
93. Magnetic pressure seam welding of AZ31 magnesium alloy sheet and aluminum sheet.  
..... K.Matsuzawa, K.Okagawa, T.Aizawa
94. Effect of residual strain on abnormal grain growth in friction stir welding of magnesium alloy  
..... H.Yoshioka, S.Fukumoto, K.Okita, T.Tomita, A.Yamamoto

95. Friction stir welding of magnesium alloy plates with different thicknesses	Y.J.Kwon, I.Shigematsu, N.Saito
96. Effect of probe position on dispersibility of alumina particle by friction stir processing	D.Nakama, K.Katoh
97. Lap joining of tough-pitch copper to A5052 aluminum alloy by friction stir welding	M.Aonuma, T.Tsumura, K.Nakata
98. High temperature deformation behavior of friction stir processed AZ80 magnesium	I.Takeda, Y.Takayama, H.katou, H.Watanabe, T.Shibayanagi
99. Trend in free machining aluminum alloys and the dissolution phenomena in brake fluid	R.Shoji, K.Mori, Y.Shoji, H.Hatta, S.Yoshihara, I.Iwai, N.Numata, M.Asano
100. Dissolution phenomena of the aluminum alloys containing Sn, Bi and Pb in brake fluid	H.Hatta, Y.Shoji, R.Shoji, K.Mori, Y.Kato, S.Yoshihara, I.Iwai, K.Minami
101. Corrosion of aluminum alloys containing Sn and Bi in main component alcohols of brake fluid	Y.Hara, T.Kikuchi, H.Takahashi
102. Effect of iron element on cathodic characteristics for aluminum	Y.Niida, O.Seri
103. Temperature dependence of the effects of acetic acid on the corrosion behavior of aluminum in the accelerated corrosion tests	Y.Oya, Y.Kojima
104. Effect of intergranular corrosion susceptibility on Cu addition and Zinc diffusion layer aluminum Alloys for CO <sub>2</sub> automotive heat exchanger tube	K.Minami, K.Kobori
105. Effect of cathode force on corrosion resistance of sacrificial anode fin for automotive heat exchangers	M.Yoshino, M.Edo, M.Asano
106. Exposure tests of ten years in river water of Al-Mg alloy	S.Moriya, Y.Suzuki
107. Effect of coating film characteristics on adhesion property of pre-coated aluminum sheets under forming	S.Tsukagoshi, N.Hattori, M.Tanigawa
108. Effects of additives in coating films on stain resistance and general properties of pre-coated aluminum sheet	T.Ozawa, M.Saito
109. Formability of pre-coated aluminum fin-stocks under the application of a water-soluble lubricating oil	T.Shimizu, Y.Ota, K.Takeyama
110. Application of no-rinse type non-chromium treatments to pre-coated aluminum sheets	O.Katou, T.Ozawa, M.Saitou, M.Oota
111. Comparison of alkali-proof characteristics of various anodic oxide films on aluminum	T.Mizutani, M.Okido, Y.Honkawa, T.Kobayashi
112. A dissolving behavior of barrier layer anodic oxide film in alkali solution	Y.Honkawa, T.Kobayashi, T.Mizutani, M.Okido
113. Study of degreasing properties of oxides and hydroxides on aluminum surface	Y.Tanaka, M.Kurata, T.Kobayashi
114. Adhesion of electroless nickel-phosphorus plated film on 7075 aluminum	K.Murakami, M.Hino, T.Kanadani, K.Osamura
115. Technical immobilization of MnO <sub>2</sub> system catalyst on the chemical conversion coating of aluminum	M.Yoshimura, T.Fujino
116. Effect of ion-plating on the detection technique of hydrogen in aluminum alloys	T.Shikagawa, I.Nakatsu, G.Itoh, N.Itoh
117. Heat treatment by anodic electrolysis on magnesium alloy	M.Hino, K.Murakami, A.Saijo, T.Kanadani
118. OES plasma diagnostics of supersonic nitrogen plasma jets used for rapid nitriding of aluminum	Y.Ando, H.Tahara, S.Tobe
119. Self-healing non-chromate coatings for magnesium	M.Sakai, A.Yabuki
120. Synthesis of CaMg-C alloy by mechanical alloying and its microstructure	T.Nobuki, T.Honjyo, T.Kuji
121. Development of heat-resistant rapidly solidified Al alloys with strong crystal orientation relationship between intermetallic compounds and Al grain	M.Yamasaki, Y.Nagaishi, Y.Kawamura
122. Effect of Sc, Ti and Zr addition on the microstructure in P/M 7000 series alloy	H.Adachi, Y.Yamamoto, T.Aida, M.Imaoka, J.Kusui
123. Strain rate dependence of deformation behavior of Mg single crystals at high temperature and the grain refinement induced by mechanical twinning	H.Miura, Y.Shioya, X.Yang, T.Sakai
124. Change in microstructure and mechanical properties of LPSO Mg <sub>97</sub> Zn <sub>1</sub> Y <sub>2</sub> extrusion alloy during annealing	M.Noda, Y. Kawamura
125. Microstructures and mechanical properties of extruded Mg-Zn-Mn alloys	Y.Kawamura, T.Honma, S.Kamado, Y.Kojima, T.Murai, T.Takahashi, S.Hanaki
126. Effect of cooling rate on cast structure of magnesium alloy	K.Kumakawa, T.Suzuki, T.Shibata

127. Grain-size effects on the formation of deformation twins in AZ31 magnesium alloys  
..... D.Ando, J.Koike
128. HRTEM observation of metastable phases in Mg-Zn alloy  
..... S.Mori, T.Kawabata, K.Matsuda, S.Ikeno
129. HRTEM observation of the age hardening precipitates at early stage in Mg-Gd-Sc alloy  
..... K.Fukumori, T.Kawabata, K.Matsuda, S.Ikeno
130. Effects of Ca and Ni on high temperature creep strength and deformation microstructures in an Mg-3Y-0.5Zn based alloy  
..... M.Suzuki, K.Maruyama
131. Production of Hydrogen at magnesium cutting under water  
..... K.Motoyama, D.Ishido, S.Miki, H.Okada, K.Aoki, M.Ogawa, K.Matsuzawa
132. Crystal orientation dependence on magnesium ultraprecision cutting  
..... S.Miki, H.Okada, K.Aoki, M.Ogawa, K.Matuzawa
133. Drilling of aluminum alloys by applying ultrasonic torsional vibration  
..... H.Okada, S.Miki, D.Nemoto, A.Shaf, K.Aoki, M.Ogawa, K.Matuzawa
134. Effects of Al additions on drilling machinability in Mg-13%Li alloys  
..... K.Matsuzawa, M.Ogawa, S.Kamado, Y.Kojima
135. Mechanical properties of magnesium alloys with B<sub>2</sub>O<sub>3</sub>  
..... S.Ando, S.Tanaka, M.Tsushida, H.Tonda
136. Grain refinement of magnesium alloy by hydrogenation treatment  
..... S.Ishida, K.Funami, M.Noda, H.Mori
137. Precipitation behavior in Ag-added Mg-Gd-Zn alloys  
..... K.Yamada, H.Hoshikawa, S.Kamado, Y.Kojima
138. Preparation of Mg-Zn-Y alloy boards by roll forming  
..... T.Itoi, H.Moriyama, T.Suzuki, Y.Kawamura, M.Hirohasi
139. Microstructure and texture of ZK60 magnesium alloy sheet rolled to large reduction by high speed rolling  
..... T.Sakai, S.Minamiguchi, H.Utsunomiya
140. Passivation of rapidly solidified Mg-Zn-Y alloys with long period stacking ordered structure  
..... S.Izumi, M.Yamasaki, Y.Kawamura
141. Composition and microstructure of oxide films formed by dielectric breakdown during anodizing of Mg  
..... H.Asoh, S.Ono
142. Influence of acid aqueous solution treatment in AZ31 magnesium alloy on specular glossiness  
..... M.Ohara, H.Okahara, Y.Takigawa, K.Higashi
143. The corrosion behavior of AZ31 magnesium alloy sheet for twin-rolled cast  
..... J.Sugimoto, Y.Nakaura, A.Watanabe, K.Nishinaka
144. Mechanical properties of structural material for marine applications made by rapidly solidified Mg-Zn-La alloys  
..... Y.Aoki, H.Madarama, K.Saito, T.Hyakudome, S.Ishibashi, T.Aoki
145. Mechanical properties of structural material for marine applications made by Mg-Zn-Y series alloy  
..... H.Madarama, Y.Aoki, K.Saito, T.Hyakudome, S.Ishibashi, T.Aoki
146. Effect of Ca addition on high temperature deformation behavior and mechanical properties of AZ91 magnesium alloy  
..... K.Ogawa, S.W.Xu, S.Kamado, Y.Kojima
147. Influence of rare earth elements on microstructure and mechanical properties of Mg-Zn-Y-RE alloys  
..... J.Kim, Y. Kawamura
148. The effects of Al and Ca additions on mechanical properties in hot-extruded Mg alloys  
..... T.Honma, K.Yamamoto, Y.Kawamura, S.Kamado
149. Mechanical properties of Mg-Gd-Zn-Zr alloy castings  
..... T.Ozaki, Y.Kuroki, H.Hoshikawa, K.Yamada, S.Kamado, Y.Kojima, K.Enomoto
150. Mechanical properties of high-strength Mg—TM—Y (TM=Cu,Ni) alloys  
..... T.Itoi, H.Moriyama, Y.Kuroda, M.Hirohasi
151. Warm-rolling behaviors and mechanical properties of AZ31 magnesium alloy  
..... I.Yatita, K.Takamatsu, K.Akiyama
152. Comparison of formability in AZ31B magnesium alloy rolled sheets produced by casting and extrusion materials  
..... M.Katsuta
153. Preparation of Mg-TM-Y-Li(TM=Transition Metals) alloys sheets by roll-forming  
..... H.Moriyama, T.Itoi, K.Takahashi, M.Hirohashi
154. cavitation behavior in superplastic Mg-Al-Zn alloy  
..... H.Somekawa, T.Mukai
155. Forging of Mg-Zn-Y alloys with long period stacking order structure  
..... R.Matsumoto, M.Yamasaki, M.Otsu, Y.Kawamura
156. Evolution of mechanical properties and microstructure due to extrusion in structure-controlled Mg-Zn-Gd alloys  
..... M.Sasaki, M.Yamasaki, Y.Kawamura
157. LPSO Mg-TM-RE ingot metallurgy alloys with 500 MPa level in yield strength  
..... Y.Kawamura, M.Yamasaki, Y.Nakayama, S.Izumi
158. Dislocation substructures induced by wavy roll-forming in AZ31B magnesium alloy  
..... A.Yamamoto, Y.Tsukahara

159. Textures and corrosion behaviors in a high purity manganese free AZ31 magnesium alloy  
 ..... E.Kakutani, Y.Tsukahara, M.Jotoku, A.Yamamoto, Y.Harada, H.Tsubakino
160. Formability of magnesium alloy sheet butt welded joint using pulsed YAG laser  
 ..... R.Nakamatsu, T.Asahina, M.Katsuta
161. Foaming behavior of porous aluminum in sandwich panels and influence of panel spacing  
 ..... M.Kobashi, N.Sakamoto, N.Kanetake
162. Foaming behavior of porous aluminum with various alloy compositions by transfer heating process  
 ..... E.Mizutani, M.Kobashi, N.Kanetake
163. The effect of amount of TiH<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> particle addition on foaming behavior of magnesium foam  
 ..... K.Maehara, M.Kobashi, N.Kanetake
164. Three-point bending of aluminum alloy honeycomb structures  
 ..... A.Hosoya, H.Kato, Y.Takayama, H.Watanabe, H.Hino
165. Local deformation behavior in three-point bending of aluminum alloy honeycomb structure  
 ..... H.Hino, Y.Takayama, H.Kato, H.Watanabe, A.Hosoya
166. Development of Note PC case with Al sandwich panel  
 ..... M.Kimura
167. Development of multifunctional mechanical material systems based on light metals  
 ..... H.Asanuma
168. Microstructure and properties on Extruded 1mmφ wire of MgB<sub>2</sub>/Al composite material  
 ..... K.Matsuda, T.Kawabata, S.Ikeno, K.Nishimura, K.Mori, S.Aoyama, Y.Yabumoto, Y.Hishinuma
169. Influence of interfacial chemical reaction for tensile strength of CF reinforced Al-Mg alloy composites fabricated by ultrasonic infiltration method  
 ..... J.Mikuni, K.Nonokawa, T.Matsunaga, K.Shinozaki, M.Yoshida
170. Microstructure and interfacial reaction of aluminum borate whisker reinforced AZ91D magnesium alloy composites  
 ..... G.Sasaki, W.Wang, N.Fuyama, T.Fujii, Y.Choi, K.Mastugi
171. Pressure-less infiltration of molten aluminum into ceramic powder preform containing TiN and titanium as infiltration aid  
 ..... Y.Kobayashi, M.Kobashi, N.Kanetake
172. Refinement of titanium ceramic particles synthesized by combustion reaction  
 ..... W.Yoshida, M.Kobashi, N.Kanetake
173. Mechanical properties and interfacial reaction of carbon fiber reinforced Al, Mg alloy composites  
 ..... H.Uozumi, T.Asai, S.Ito, M.Yoshida
174. Mechanical properties of carbon fiber reinforced magnesium alloy composites  
 ..... H.Uozumi, K.Kobayashi, K.Nakanishi, M.Yoshida
- P01. Effect of additions of Sn on superplastic properties of Zn-22mass%Al eutectoid alloy  
 ..... Y.Takabayashi, T.Inoshita, T.Itoi, M.Hirohashi
- P02. Suppression of ambient temperature creep in Ti with increasing initial dislocation density  
 ..... T.Kameyama, T.Matsunaga, E.Sato, K.Kuribayashi
- P03. Deformation behavior and microstructure of ultrapure aluminum at room temperature  
 ..... S.Suzuki, Y.Takayama, H.Kato, H.Watanabe
- P04. Cube orientation formation in high purity aluminum foils with a small amount of nickel  
 ..... T.Kurosaki, Y.Takayama, H.Kato, H.Watanabe, H.Watanabe, A.Yoshii
- P05. Preferential precipitation of stable phase at rolled-in scratch on 5182 aluminum sheet  
 ..... T.Murakami, S.Ochiai
- P06. Microstructure and mechanical properties of Al-Fe-Y rapidly solidified powder metallurgy alloys  
 ..... T.Genkawa, M.Yamasaki, Y.Kawamura
- P07. Thermal fatigue property of a peening-treated aluminum casting alloy  
 ..... T.Fukunaga, H.Toda, T.Kobayashi, M.Kobayashi, Y.Ooba, M.Kakizaki, T.Yamada
- P08. Effect of plastic deformation on states of hydrogen in a 6061 aluminum alloy  
 ..... G.Itoh, T.Suzuki, T.Watakabe, T.Izumi, N.Itoh, H.Yabuta
- P09. Effect of environmental hydrogen on impact tensile properties in 6061 and 7075 aluminum alloys  
 ..... K.Tanigaki, H.Yamada, K.Horikawa, H.Kobayashi
- P10. Spontaneous deformation in a Ti-Ni alloy caused by hydrogen desorption  
 ..... Y.Kawabata, K.Horikawa, H.Kobayashi
- P11. Examination of the application of Recycle-typed Iron Aluminide based alloys reinforced by several carbide  
 ..... Y.Watanabe, Y.Nishikawa, K.Gonda, T.Itoi, K.Yoshimi, H.Kimura, M.Hirohashi
- P12. Quantity of aluminum melt beforehand effect of metal recovery of UBC (Used Beverage Can) at melting and removal method of paint on UBC  
 ..... J.Tsukinoki, Y.Izawa, K.Toyota, K.Murata, M.Murakami
- [Cancellation] P13. Aged deterioration of the aluminium alloy axle box for Shinkansen trains  
 ..... H.Mori, T.Tsujimura
- P14. Corrosion resistance of magnesium alloys with zirconium phosphate conversion coating  
 ..... M.Sato, M.Takaya
- P15. Preparation of multi-functional coatings on titanium by the chemical conversion  
 ..... S.Higashi, T.Fujino
- P16. Synthesis of the metal supported anodic oxide coatings of titanium with high photocatalytic activity  
 ..... T.Inoue, T.Fujino

- P17. Preparing CNTs on the Ti substrate surface with ohmic heating by high frequency power supply  
..... S.Arima, M.Takaya, Y.Sakamoto
- P18. Effect of raw powder morphology on microstructure and mechanical properties of sintered Ti-6Al-4V alloys consolidated by spark plasma sintering  
..... Y.Saito, K.Kondoh, K.Murata, M.Murakami
- P19. Development of active laminates having hollow channels and their characterization  
..... Y.Adachi, T.Nakata, M.Kibe, H.Asanuma
- P20. Development of active laminates sandwiching elastomer sheet and their characterization  
..... T.Nakata, H.Asanuma
- P21. Thermal deformation characteristics and shape recovery function of the SiC fiber/Al active composites  
..... T.Kaiho, T.Chiba, K.Kato, H.Asanuma
- P22. Microstructures and characteristics of the metal-core piezoelectric ceramic fiber/aluminum composites  
..... T.Chiba, T.Yanaseko, H.Asanuma, H.Sato, S.Kishimoto
- P23. Making ceramic reinforced magnesium matrix composite materials by spontaneous infiltration method and evaluation  
..... S.Yoshida, A.Omoto, Y.Saito, K.Murata, M.Murakami
- P24. Formation of protrusion on AZ31 magnesium alloy sheet by friction welding  
..... H.Arashida, K.Katoh
- P25. Bonding strength by surface modification of magnesium alloys  
..... M.Takai, M.Takaya
- P26. Microstructures and mechanical properties of Mg-Gd-Cu-Zn-Zr casting alloys with LPSO structure  
..... H.Hoshikawa, S.Kamado, K.Yamada, Y.Kojima
- P27. Microstructure and Mechanical properties of Mg-TM-Y (TM=Cu,Ni) alloys  
..... T.Itoi, H.Moriyama, K.Takahashi, M.Hirohashi
- P28. Microstructure and mechanical properties of Mg-TM-Y-Li(TM=Transition Metals) alloys  
..... H.Moriyama, T.Itoi, K.Takahashi, M.Hirohashi
- P29. Effects of manganese on aging behavior in Mg-9Al-1Zn alloy  
..... R.Horiuchi, N.Kono
- P30. Observation of the precipitates by aging of high-purity Mg-9Al-1Zn alloy  
..... A.Suzuki, N.Kono
- P31. Development of high strength Mg-Zn-Gd alloy by precipitation of LPSO and  $\beta'$  phases  
..... S.Kouzaki, M.Yamasaki, Y.Kawamura
- P32. Improvement of heat resistance of Mg-Al alloys by Ca addition  
..... R.Asakawa, S.Kamado, Y.Kojima
- P33. Effect of extrusion conditions on the mechanical properties of LPSO Mg-Zn-Y alloys  
..... T.Kawasaki, M.Yamasaki, K.Hagihara, Y.Umakoshi, K.Higashida, Y.Kawamura
- P34. Texture control and bendability in an AZ31 magnesium alloy  
..... J.Yashina, G.Itoh, T.Hanada, Y.Motohashi
- P35. Effect of temperature on bendability of magnesium alloys extruded tubes  
..... Y.Kohno, T.Iwai, Y.Takano, T.Shimizu, G.Motoyasu
- P36. Bendability of magnesium alloys extruded tubes  
..... T. Iwai, Y.Kohno, M.Mera, T.Shimizu, G.Motoyasu
- P37. Cyclic deformation behavior of as-extruded magnesium alloys  
..... S.Morita, S.Tanaka, K.Hamamura, N.Ohno, Y.Kawakami, T.Enjoji
- P38. Porous magnesium manufactured by commercial magnesium alloys and its mechanical property  
..... S.Oyama, K.Kitazono