

Program
of
The 111st Conference of Japan Institute of Light Metals
(November, 18-19, 2006, Tokyo)

1. Detection of hydrogen concerning with environmental hydrogen embrittlement in an Al-Mg-Si alloy
..... K.Horikawa, H.Nishio, H.Kobayashi
2. Effect of crystallographic texture on the bendability of Al-Mg-Si alloy sheets
..... M.Asano, S.Ikawa, K.Matsuda, H.Yoshida
3. Effect of alloy contents on strength and toughness in Al-Zn-Mg-Cu alloy
..... S.Iwamura, M.Tadashi, H.Yoshida
4. Low-cycle fatigue behavior of an Al-Mg-Sc alloy at elevated temperature
..... C.Watanabe, Y.Kawai, R.Monzen, K.Kitagawa
5. Observation of Si particles in cast aluminum alloys by deflection contrast imaging.
..... T.Hidaka, H.Toda, M.Kobayashi, K.Uesugi, T.Kobayashi
6. 3D image-based numerical simulation of ductile fracture in a model Al-Si alloy using synchrotron X-ray CT images
..... L.Qian, H.Toda, K.Uesugi, M.Kobayashi, T.Kobayashi
7. Analysis of the fracture process of a pre-cracked cast Al alloy according to the three-dimensional CTOD distribution
..... S.Yamamoto, H.Toda, L.Qian, K.Uesugi, M.Kobayashi, T.Kobayashi
8. Hydrogen assisted cracking of notched-aluminum alloy plates in humid air
..... J.Ikeda, S.Osaki, K.Kinoshita, K.Ichitani, Y.Takeshima, Y.Sasaki
9. Effect of grain size on SSRT tensile properties of 6061-T6 plates in hydrogen environments
..... T.Harano, S.Osaki, K.Kinoshita, P.Zhao, Y.Takeshima, Y.Sasaki
10. Effect of strain aging on serration of 5083 aluminum alloy
..... K.Yoshida, Y.Nakayama
11. Effect of deformation mode on serrations and stretcher-strain marks
..... T.Agata, Y.Nakayama
12. Formation of stretcher-strain marks due to tensile deformation
..... K.Yamada, Y.Nakayama
13. Effect of step-quenching treatment on two-step aging of 6063 aluminum alloy
..... S.Irikura, Y.Nakayama
14. Springback and crystallographic properties for grained pure aluminum
..... K.Yoshida, T.Sakai, J.Koyama, E.Nakamachi
15. Influence of specimen-thickness on the tensile properties in two aluminum alloys under moist air.
..... T.Izumi, Y.Arai, G.Ito, S.Osaki, N.Itoh, T.Inami
16. Finite element analysis of tensile test of aluminium sheet with inhomogeneity
..... H.Utsunomiya, K.Masui, S.Kaneko, T.Sakai
17. Basic research of Al-SiCp composite compressing by rigid plastic FEM analysis
..... M.Hiramatsu, S.Arai, R.Sigeta, M.Motomura
18. Dieless drawing process of aluminum alloy extruded tube
..... T.Furushima, K.Manabe
19. Forming Limit Diagram and Microstructures on Al-Mg-Si System Alloys.
..... T.Yamamoto, A.Yamamoto, H.Tsubakino, H.Iwasaki, K.Matsumoto, T.Sakurai, T.Eto
20. Experimental observations of tensile-bending deformations of 5083 Aluminum alloy sheet metal at high temperature
..... T.Uemori, T.Naka
21. Effect of partially softening on square cup drawing of non-heat-treatable aluminum alloy sheets
..... K.Kurata, T.Nishiwaki, M.Matsui, N.Kanetake
22. Deformation behaviors during superplastic bulge forming in AA5083 aluminum alloy sheet
..... Y.Nagai, M.Asano, H.Uchida, K.Shibue
23. Microstructure and mechanical properties of Al alloy processed by ECAP and HPT
..... Y.Ito, Z.Horita
24. Microstructures during superplastic deformation and deformation mechanism of an ultrafine-grained Al-Zn eutectoid alloy
..... T.Kokubo, A.Taguchi, G.Ito, Y.Motohashi
25. Superplastic behavior in a fine grained 5083 aluminum alloy through constant-stress indentation tests
..... Y.Sato, H.Takagi, M.Fujiwara
26. Superplasticity of a friction stir processed 5083 aluminum alloy
..... K.Kimisaki, T.Ito, M.Fujiwara
27. Effect of FSW conditions on microstructure of 1070 aluminum alloy
..... Y.Kondoh, T.Yokota, M.Murakami, H.Hori
28. Orientation distribution in 2024Al alloy friction stir welded
..... T.Shibayanagi, S.A.Khodir

29. Effect of FSW conditions on characteristics of 7075 aluminum alloy
..... Y.Teijima, T.Yokota, M.Murakami, H.Hori, Y.Kariya
30. Effect of FSW conditions on characteristics of 6061 aluminum alloy
..... Y.Kondoh, T.Yokota, M.Murakami, H.Hori
31. Effect of tool shapes on relationship between load and microstructure of friction stir weld joint of AA5052
..... M.Hirabayashi, T.Yokota, Y.Kariya, M.Murakami, T.Ueki
32. Effect of PWHT on mechanical properties and microstructures of friction stir welded AZ31B
..... H.Yoshioka, S.Fukumoto, K.Okita, T.Tomita, H.Tsubakino, A.Yamamoto
33. Grain growth and porosity formation by arc welding after FSW
..... H.Fujii, Y.Konishi, T.Matsumoto, M.Kamai, K.Nogi
34. Related properties in friction stir welded joints of ADC12 and A5052 aluminum alloys
..... N.Motegi, M.Kokubo, Y.Takayama, H.Kato, H.Watanabe, S.Hirano
35. Measurement of temperature during friction stir welding of ADC12 and A5052 aluminum alloys.
..... M.Kokubo, S.Kazumi, T.Kaneuchi, Y.Takayama, H.Kato, S.Hirano
36. Dissimilar friction stir welding between magnesium and aluminum
..... Y.J.Kwon, I.Shigematsu, X.Huan, A.Watazu, K.Suzuki, N.Saito
37. Friction stir welding of pure titanium and Mg-Al-Zn alloys
..... M.Aonuma, T.Tsumura, K.Nakata
38. Fabrication of A6022/SPCC lap joint using friction-induced thermal and mechanical effect
..... H.Matsumoto, S.Kumai
39. Effect of probe length of tool on tensile properties of 5083 aluminum alloy lap joint by friction stir welding
..... T.Okawa, K.Katoh, H.Tokisue
40. Investigation of circular friction stir welding parameter for 2014 aluminum alloy
..... Y.Nagano, Y.Osame
41. Microstructures and mechanical properties of FSW multi-pass processed joints between aluminum alloys 5083 and ADC12
..... Y.Ishii, T.Yokota, M.Murakami
42. Nanometer-sized carbon matrices/AZ31 composites fabricated by friction stir processing
..... Y.Morisada, H.Fujii, M.Fukuzumi, K.Nogi
43. A simple evaluation method on FSW of magnesium alloy by stirring temperature
..... S.Yagi, K.Manita, K.Aoki, M.Ogawa, K.Matsuzawa
44. Ignition-proof effect and reduction of green-house effect by using new SF6 alternative cover gas for magnesium alloy melt
..... D.Yamagata, K.Yamamoto, S.Kamado, Y.Kojima, K.Yamada, F.Sakyu, Y.Hibino, M.Nagasaki
45. Fluidity of A-Z series magnesium alloy
..... Y.Zhang, T.Motegi
46. Friction and wear properties of AZ31B magnesium alloy
..... T.Kawano, M.Takaya
47. Fabrication of carbon nano fiber reinforced Mg alloy composites
..... N.Sawaura, T.Ono, H.Okumura, S.Kamado, Y.Kojima, K.Arai, A.Katoh, M.Suganuma
- cancellation 48. Multi-directional compression of magnesium alloy AZ31 and its recrystallized structure
..... M.Sasaki, N.Kono, Y.Tamura, T.Haitani
49. Effect of texture on the formability of an AZ31 wrought magnesium alloy
..... T.Hanada, M.Momono, G.Ito, Y.Motohashi
50. Microstructure control of AZ31 magnesium alloy
..... E.Yukutake, K.Komatsuzaki, K.Koisikawa
51. Relationship between characteristics and rolling conditions of AZ31B magnesium alloy processed by differential speed roll
..... K.Suzuki, X.Huang, A.Watazu, I.Shigematsu, N.Saito
52. Deformation substructures in AZ31B magnesium alloy processed by repeated hot bend-pressing.
..... A.Yamamoto, M.Terashita
53. Effect of Aluminum content on mechanical properties of extruded Ca added magnesium alloys
..... K.Shimizu, T.Yamashita, A.Nakagawa, H.Mukaiyama
54. Mechanical Properties of Ca added magnesium alloy by drawing
..... Y.Oishi, N.Kawabe, K.Mori
55. Development of process modelling system for rolling in Ca added magnesium alloys
..... T.Hironaka, T.Suzuki, H.Yoshida, S.Isogawa
56. Mechanical properties of extrusions and forgings of Mg-Al-Ca series magnesium alloy
..... T.Tsukeda, H.Madarama, K.Oohori, Y.Aoki, H.Yamada, K.Saito
57. Superplasticity of a AZ31 Magnesium alloy sheet by Differential Speed Rolling
..... Y.Nakaura, J.Sugimoto, A.Watanabe
- cancellation 58. Effect of Mn contents on mechanical properties of AZ31 magnesium alloy
..... T.Yanagisawa, T.Haitani, Y.Tamura, N.Kono
- cancellation 59. Aging precipitation phenomena of AZ91 magnesium alloys
..... Y.Kida, T.Haitani, Y.Tamura, N.Kono
60. Microstructures and mechanical properties of Mg-Al-Zn alloys with low impurity contents

- E.Kakutani, M.Jotoku, A.Yamamoto, H.Tsubakino
61. Effect of microstructural factors on warm temperature formability of rolled Mg-5.0~6.0%Al alloy sheets.
..... T.Sakai, S.Kamado, Y.Kojima, T.Yoshimoto, T.Matunaga, T.Wada
62. Effects of microalloying elements on precipitates within grains in Mg-Al-Ca based Thixomolded(R) Alloys
..... M.Suzuki, A.Shibata, T.Tsukeda, K.Maruyama
63. The effects of second phase on tensile properties of Mg-Al-Ca alloys
..... S.Kawaguchi, S.Kamado, K.Yamada, Y.Kojima
64. High temperature deformation behavior in Die-cast Mg-Al-Ca alloys
..... M.Takasuga, S.Goto, K.Ikeda, H.Nakashima
65. Microstructures and mechanical properties for ZK60 magnesium alloy prepared by Mg-Zr master alloy AM-cast
..... T.Kikuchi, S.Ueno, K.Kamata, M.Easton
66. Optimization for surface modification by combining high purity magnesium coating and fluoride-treatment
..... T.Terawaki, A.Yamamoto, H.Tsubakino
67. Influence of breakdown voltage on structure of anodic films formed on magnesium
..... H.Asoh, M.Inagaki, S.Ono
68. Improvement of corrosion resistance of rapidly solidified Mg-Zn-Y alloys with long period ordered structure by Al addition
..... S.Izumi, M.Yamasaki, Y.Kawamura
69. Bond strength of magnesium alloys and aluminum alloys by acrylic resin
..... M.Takai, M.Takaya
- cancellation 70. Improvement of corrosion resistance of refractory for molten magnesium
..... A.Sakamoto, S.Dohi
71. Effect of thermal and mechanical processing conditions on the strength and electrical conductivity of aluminum wires, with different Cu contents
..... T.Sekiguchi, T.Shikagawa, G.Ito, T.Horikoshi, H.Kuroda
72. Control of grain growth process in pure aluminum by fiber-laser aided spot heating
..... T.Matsumoto, Y.Soga, T.Shibayanagi, M.Tsukamoto, N.Abe
73. Surface segregation of tin, indium and bismuth in high-purity aluminum
..... H.Tsubakino, Y.Yamauchi, A.Yamamoto, K.Yoshida, T.Yamanoi, M.Sakaguchi, A.Kinomura
74. Phase field simulation of grain growth in aluminum thin film
..... Y.Sasajima, J.Kageyama, M.Ichimura, J.Onuki
75. The relationship between main orientations of rolling textures and slip systems in pure aluminum single crystal having cube orientation
..... K.Kashihara, H.Inagaki
76. Structural changes and pattern formation in Al-Ag/Ge bilayer films
..... T.Kira, M.Shibata, T.Moritani, T.Kozakai, M.Do, M.Takagi
77. Influence of rolling reduction on the development of rolling and recrystallization textures in AA6000 Al alloys
..... H.Inagaki
78. Development of very strong cube recrystallization textures in AA6000 series Al alloys
..... H.Inagaki
79. Crystallographic orientation distribution control by means of Micro CCB in a high purity aluminum foil
..... Y.Kikuchi, Y.Takayama, H.Kato, H.Watanabe, H.Watanabe
80. Formation and strengthening Mechanism of LPO-type Magnesium Alloys
..... Y.Kawamura, M.Yamasaki
81. Age hardening behavior and mechanical properties of Mg-Zn-Y-X (X=Ag,Sm) alloys
..... K.Takahashi, T.Itoi, K.Fujino, Y.Kawamura, M.Hirohashi
82. Microstructure and mechanical property of Mg-X-Y(X=Ni,Cu,Zn) alloys
..... T.Itoi, K.Takahashi, H.Moriyama, Y.Kawamura, M.Hirohashi
83. Effects of Sm addition on microstructures of nano-precipitates in Mg-Y alloys
..... A.Babazono, S.Hirosawa, H.Teduka, T.Sato
84. HRTEM observation of the precipitates in Mg-Gd-Zr alloy
..... T.Matsuno, T.Kawabata, K.Matsuda, S.Kamado, Y.Kojima, S.Ikeno
85. Time-Temperature-Transformation diagram of Mg-Zn-Gd alloy with long period ordered structure
..... M.Sasaki, M.Yamasaki, Y.Kawamura
86. Formation of long period ordered structure and stacking fault in the Mg-Zn-Gd alloy by high temperature annealing
..... M.Yamasaki, M.Sasaki, M.Nishijima, K.Hiraga, Y.Kawamura
87. Strengthening mechanism of Mg-Zn-Y alloys with Long-Period Ordered Structure
..... H.Tamagawa, M.Yamasaki, K.Hagihara, Y.Umakoshi, K.Higashida, Y.Kawamura
88. Properties of screw-extruded material of magnesium alloy chips.
..... T.Yamaguchi, T.Tsukeda, K.Saito, Y.Kawamura
89. Hot-workability about large size cast and extrusion material of Mg-Y-Zn series magnesium alloy
..... Y.Aoki, K.Oohori, T.Tsukeda, H.Yamada, K.Saito, Y.Ienaga
90. Mechanical properties of forgings prepared from large ingot of Mg-Y-Zn series magnesium alloy
..... T.Tsukeda, H.Madarama, Y.Aoki, H.Yamada, K.Saito, Y.Ienaga

91. Effect of alloy elements for non-basal slip in magnesium single crystals
..... S.Ando, M.Tsushida, L.Bu, H.Kitahara, H.Tonda
92. Survey and evaluation of creep resistance for climb-controlled dislocation creep in magnesium alloys
..... T.Uesugi, M.Yamaguchi, Y.Takigawa, K.Higashi
93. Mechanical properties of high-strength Mg-Zn-Y-X alloys with long period ordered structure by consolidation of rapidly solidified ribbons
..... Y.Sakamoto, M.Yamasaki, Y.Kawamura
94. Effect of Mn and Mg contents on mechanical properties of rapidly solidified Al-Mn-Mg alloys
..... A.Tomioka, Y.Kubota, M.Sugamata, J.Kaneko
95. Effect of mechanical alloying on age-hardening of rapidly solidified Al-Zn-Mg-Cu alloys
..... Y.Nagano, L.Blaz, J.Kaneko, M.Sugamata, M.Kubota
96. Sound and damping characteristics of passive vibration isolator in aluminium and gray cast iron composites
..... T.G.T.Nindhia, H.Toda, S.Horihata, S.Ishimitsu, T.Hikosaka, T.Kobayashi
97. Evaluation of foaming-shaping condition in fabrication of porous magnesium
..... H.Kurosaki, K.Matsuki, T.Aida, N.Takatsuji
98. Fabrication and Characteristics of 6061 Aluminum Alloy Foam
..... K.Osada, T.Hikosaka
99. Fabrication of lotus-type porous aluminum alloys with directional pores
..... H.Nakajima, J.Park
100. Age hardening of 2017 aluminum alloy foams
..... K.Kitazono, T.Kobayashi
101. Casting of 6000 aluminum alloy strip using a twin roll caster with 1500mm of diameter rolls
..... T.Haga, H.Sakaguchi, H.Inui, S.Kumai, H.Watari
102. Producing the continuous rapid cooling solidification aluminum pipe and the basic properties research by the application of melt drag process with a pair of grooved rolls
..... S.Hamashima, S.Nishida, Y.Iwatani, S.Kishino, Y.Yoshihara, M.Motomura
103. Properties of a AZ41 magnesium alloy sheet by twin-roll cast.
..... J.Sugimoto, Y.Nakaura, A.Watanabe
104. Tendency researches of contacting condition of AZ31 melt in Melt Drag strip casting process
..... T.Yamazaki, S.Nishida, Y.Ando, Y.Takano, S.Kuboyama, S.Yamazaki, M.Motomura
105. Heat Transfer and Solidification Analysis in Melt Drag Process of Magnesium Alloy Strip Casting
..... S.Nishida, R.Shibagaki, M.Motomura
106. Precimeter control system realizes optimized molten metal level within 1mm fluctuation for quality casting
..... M.Suzuki, S.Yan
107. Mechanism of molten metal oxidation accelerated by bismuth in Al-Mg alloys
..... T.Kurauchi, M.Tsunekawa, M.Nishio
108. Reduction of Mg in aluminum scrap melt using a oxide particle refined from a waste dry cell
..... H.Takahashi
109. Characteristics of Al-Si alloy billet produced by continuous casting process using a heat insulating mold cooled directly the bottom edge
..... H.Takagi, Y.Uetani, S.Ikeno, M.Dohi, T.Watanabe, T.Yamashita
110. Modeling of microsegregation and crystallization during solidification of Al-Fe alloy
..... M.Morishita, H.Ishida
111. Effect of addition elements on hot tearing of Al-5.8%Cu alloy
..... H.Nagaumi, S.Suzuki
112. Effect of forced sending-out in manufacturing 2014 aluminum alloy rheo-slurry using thin tube
..... R.Nagata, Y.Uetani, H.Takagi, K.Matsuda, S.Ikeno
113. Microstructure and mechanical properties of hot-compression-semi-solidcast Al-7%Si-0.35%Mg alloys containing high Fe
..... H.Suzuki, H.Tezuka, T.Sato
114. Effect of heat treatment on tear toughness of rheocast AC4CH aluminum alloy
..... S.Shinoda, S.Kumai
115. Dispersibility of alumina particle in 6061 aluminum alloy by friction stir processing.
..... D.Nakama, K.Katoh, H.Tokisue
116. Interfacial reaction between carbon nano-fiber and aluminum, and fabrication of the composites
..... G.Sasaki, F.Kondo, K.C.Chang, K.Matsugi, O.Yanagisawa
117. Fabrication process of carbon fiber reinforced Mg alloy composites by squeeze casting
..... H.Uozumi, K.Kobayashi, K.Nakanishi, M.Yoshida
118. Microstructure and hardness of aluminum matrix composite fabricated by use of metal infiltration agent
..... M.Kobashi, M.Hirako, N.Kanetake

119. Formation of intermetallic compounds by solid reaction in Mg-Cu super-laminates
..... T.Nakajima, H.Miyamura, S.Kikuchi
120. Microstructure of extruded MgB₂ / Al material wire
..... M.Morobayashi, K.Mastuda, K.Nishimura, K.Mori, S.Ikeno
121. Fabrication of structural laminate composites accompanied with a function of thermo-electric conversion
..... T.Abe, Y.Takayama, H.Kato, H.Watanabe
122. Drilling machinability of Mg-Li alloys.
..... K.Matsuzawa, N.Syuji, M.Ogawa, S.Kamado,
123. Intermittently decelerated feed drilling of 15% SiC particle reinforced 2014 aluminum alloy
..... K.Sakurai, T.Sawai, K.Adachi
124. Crystal orientation dependence on magnesium fine cutting
..... S.Miki, H.Okada, K.Aoki, M.Ogawa,
125. Improvement of cutting performance by applying ultrasonic vibration on pure aluminum lathing
..... H.Okada, S.Miki, M.Doumae, K.Aoki, M.Ogawa,
126. Small-scale resistance spot welding of pure titanium
..... S.Fukumoto, K.Fujiwara, M.Toji, A.Yamamoto
127. Lap weldability of Al100/pure Ti sheets using pulsed YAG laser
..... F.Osato, T.Asahina, K.Hasumi,
128. Microstructures and mechanical properties of friction stir welded joints ZK60 magnesium alloy
..... T.Nagata, Y.Kariya, T.Yokota,
129. Interfacial microstructure of Al-Cu lap joints welded by magnetic pressure seam welding
..... K.Shuheii, S.Kumai, M.Watanabe, K.Ishiuchi, A.Tomokatsu
130. Development for the quantitative test for erosion by flowing liquid filler on brazing
..... T.Murakami, Y.Yanagawa, H.Kano, N.Oohara,
131. Some properties and interdiffusion in Ti-Al-Co alloys
..... T.Ozawa, Y.Watanabe, T.Takahashi
132. Deformed Microstructure of Gum Metal
..... R.Aoto, G.Ito, Y.Motohashi
133. Production of CNT on the Ti substrate surface by ohmic heating using alcohol solution
..... S.Arima, M.Takaya, Y.Sakamoto
134. Hydrogenation of Ti-based quasicrystal powders produced by mechanical alloying
..... A.Takasaki
135. Effect of pre-straining on microstructure for Al-Mg-Si alloy subjected to pre-aging
..... T.Masuda, Y.Takaki, T.Sakurai
136. HRTEM observation of age-precipitate of Ag added Al-Mg-Si alloy at the peak aging times
..... J.Nakamura, K.Matsuda, T.Sato, Y.Nakamura, S.Ikeno
137. HRTEM observation of precipitates behavior in excess Mg-type Al-Mg-Si alloy containing Ag
..... K.Matsuda, A.Furihata, J.Nakamura, S.Ikeno
138. Effect of fabrication conditions and Cr,Zr contents on the grain structures of 6061 alloy used for hydrogen gas vessel's line
..... P.Zhao, T.Kobayashi, T.Tsuchida
139. Drawing formability of 5083 aluminum alloy sheets produced by controlled rolling
..... H.Tanaka, Y.Oguri, H.Yoshida
140. Influence of micro-structure on bendability for Al-Mg-Si alloy
..... K.Tokuda, T.Sakurai, S.Kumai
141. Recrystallization textures of Al-Mg-Si alloy sheets produced by symmetric and asymmetric combination rolling
..... H.Inoue, M.Hori, T.Yamasaki, H.Tanaka, T.Komatsubara, T.Takasugi
142. Relationship between tensile deformation and crystallographic orientation of grains in the excess Si-type Al-Mg-Si alloys
..... J.Tsukiyama, K.Mastuda, Y.Uetani, S.Ikeno
143. Effect of microstructure on stretch flanging of Al-Mg-Si alloys
..... K.Matsumoto, T.Sakurai
144. Variations in micropore configuration during solution heat treatment.
..... K.Minami, H.Toda, M.Kobayashi, T.Kobayashi, K.Uesugi
145. Analyses of nano-scale microstructures within PFZ in Al-Zn-Mg(-Ag, Cu) alloys by the 3DAP method
..... T.Ogura, S.Hirosawa, A.Cerezo, G.Smith, T.Sato
146. 3DAP analyses of the effect of Si on the formation of the L12 ordered phase in Al-Zr alloys
..... T.Atsuma, S.Hirosawa, T.Sato
147. Properties of Al-Mg-Cu alloy sheets by Asymmetric Warm Rolling (AWR)
..... Y.Suzuki, S.Hirosawa, T.Sato
148. Form and crystallographic feature of precipitated phase of ($\alpha + \beta$) two aspect magnesium alloy
..... T.Nanakawa, H.Fujiwara, K.Ameyama
149. Influence of Al content on isochronal heat treatment behavior in Ti-13Cr-1Fe alloys
..... M.Ikeda, M.Ogawa
150. Mechanical properties of Ti-29Nb-13Ta-4.6Zr-XO subjected to cold working and various heat treatments

- H.Ishikawa, M.Niinomi, T.Akahori, M.Nakai, H.Toda, M.Ogawa
151. Mechanical properties of biomedical beta type titanium alloy subjected to surface hardening treatment
..... T.Akahori, M.Niinomi, M.Nakai, M.Ogawa
152. Effect of Aging Treatment on Mechanical Properties of Cast Beta Type Titanium Alloy for Dental Applications
..... Zuldesmi, M.Niinomi, T.Akahori, M.Nakai, H.Toda, M.Ogawa
153. Surface microstructural control by friction thermo-mechanical processing in a commercial purity titanium sheet and its post-formability
..... T.Akutsu, Y.Takayama, H.Kato, H.Watanabe
154. Effect of thermal oxidation conditions on photocatalytic activity of titanium oxide film
..... S.Obara, M.Shi, Y.Takayama, H.Kato, H.Watanabe
155. Fatigue properties of welded pure Titanium sheet joints
..... D.Itoh, T.Asahina, K.Hoshino, K.Nakagawa
156. Elastic deformation behavior of Ti-Nb-Ta-Zr system alloys for biomedical applications
..... N.Kawakita, M.Niinomi, T.Akahori, M.Nakai, H.Toda
157. Development of dental precision casting mold for titanium alloys with high melting point
..... H.Inoue, M.Niinomi, T.Akahori, M.Nakai, H.Toda
158. Corrosion Science and Engineering of Light Metals: Past, Present and Future
..... K.Nisancioglu
159. Corrosion behavior for aluminum alloy in alkaline solution under heat cyclic condition
..... T.Onda, Y.Kojima
160. Evaluation of localized corrosion using electrochemical sensor
..... T.Saito, K.Noda
161. Effects of acetic acid on the corrosion behavior of aluminum in the accelerated corrosion tests
..... Y.Kojima, Y.Ooya
162. Evaluation of atmospheric corrosion using electrochemical measurement and pH measurement
..... K.Noda, S.Nakajima, Y.Hoshi, T.Hirano
163. Corrosion behavior of aluminum matrix FGM
..... K.Noda, K.Miyahara, Y.Watanabe
164. Selective Removal of Intermetallic Phases on Al-Si-Mg aluminum alloy 6063 and plating treatment
..... O.Seri, T.Moriyama
165. pH measurement on surface of Zn-Al during dissolution
..... T.Hirano, K.Noda
166. Effects of low melting metals addition on electrograining properties in 1050 aluminum
..... H.Ougi, A.Hibino
167. Study of degreasing properties of aluminum oxides and magnesium oxides
..... Y.Tanaka, M.Kurata, T.Kobayashi
168. Influence of alloying elements on morphology of aluminum
..... Y.Kato, H.Umeda
169. Evaluation of regularity of the cell arrangement in anodic porous alumina using image processing
..... S.Tamura, H.Asoh, N.Baba, S.Ono
170. Conductive anodic oxidation coatings on AZ91D magnesium alloy and electroplating
..... M.Hino, M.Hiramatsu, K.Murakami, K.Chen, M.Takamizawa, A.Saijo, T.Kanadani
171. Zincate treatment and adhesion of electroless nickel-phosphorus plating on 2017 aluminum alloy
..... K.Murakami, M.Hino, M.Hiramatsu, K.Osamura, T.Kanadani
172. High corrosion resistance by surface treatment with boemite
..... Y.Furukawa, H.Kuno
173. Effect of additives in coating films on heat radiating and general properties of pre-coated aluminum sheet (part II)
..... M.Tongu, T.Maezono, M.Saito
174. Evaluation method of hydrophilicity for pre-coated aluminum fin-stock
..... Y.Ota, T.Shimizu, K.Tateyama

- P01. Two-step aging behaviors of dilute Al-Si-Ge alloys
..... H.Yasunaga, T.Kanadani, K.Nakagawa, G.Ito
- P02. Environmental friendly anodizing onto various magnesium alloys and its corrosion resistance.
..... A.Saijo, K.Murakami, M.Hino, S.Sumioaka, T.Kanadani
- P03. Casting of Aluminium Alloy strip of 400mm in width by an unequal diameter twin roll caster
..... T.Haga, H.Inui, H.Sakaguchi, S.Kumai, H.Watari
- P04. Fabrication of AM60 magnesium alloy sheet by twin-roll casting
..... K.Matsumoto, S.Kamado, Y.Kojima
- P05. Effect of alloying element on zincate treatment onto various aluminum alloys.
..... S.Nishiyama, M.Hino, K.Murakami, M.Hiramatsu, T.Kanadani
- P06. Effect of various surface treatments on mechanical property of thixomolded AZ91D magnesium products.
..... S.Sumioaka, K.Murakami, M.Hino, A.Saijo, T.Kanadani
- P07. Effect of microstructure on the bendability of some Al-Mg-Si alloy sheets
..... R.Akagi, T.Nakamura, G.Ito, N.Itoh
- P08. Development of titanium alloys for mouthpieces of wind instruments
..... T.Nozaki, M.Niinomi, T.Akahori, M.Nakai, H.Toda, T.Suzuki, K.Watanabe, K.Sone
- P09. Influence of grain size on fatigue properties of extruded AZ61A magnesium alloy
..... K.Hamamura, S.Morita, N.Ohno
- P10. Control of pits initiation sites of aluminum foil during DC etching
..... K.Nakamura, H.Asoh, S.Ono
- P11. Behavior of hydrogen invasion into some aluminum alloys from moist air.
..... T.Shikagawa, T.Suzuki, T.Izumi, G.Ito, N.Itoh, T.Inami
- P12. Effect of welding conditions on tensile properties of lap friction welded 6061 aluminum alloy / SPCC steel joint.
..... A.Sekine, K.Katoh, H.Tokisue
- P13. Bending deformation behavior under AZ31 magnesium alloy extruded tube under room temperature
..... O.Hasegawa, K.Manabe, H.Nishimura
- P14. Observation of morphology of cube grains at surface of aluminum foil
..... T.Murakami, S.Ochiai
- P15. Mechanical properties of rapidly solidified Mg-Zn-Gd-X alloys with long period ordered structure
..... M.Kim, M.Yamasaki, Y.Kawamura
- P16. Development of Si coated carbon nano fiber / magnesium composites
..... K.Arai, A.Katoh, T.Satou, M.Suganuma, N.Sawaura, S.Kamado, Y.Kojima, H.Takizawa
- P17. About mechanical properties and the change in the organization by a high temperature of friction stir welding
..... H.Kajiyama, T.Yokota, M.Murakami
- P18. Fabrication of Al-RE-TM rapidly solidified powder metallurgy alloys and their mechanical properties
..... T.Genkawa, M.Yamasaki, Y.Kawamura
- P19. Bendability of AZ and ZK series magnesium alloys extruded tubes
..... T.Iwai, G.Motoyasu
- P20. Effects of Shielding Gas on Mechanical Properties of AZ31 Magnesium Alloy Welded by TIG and Plasma Welding Proce
..... T.Ishida, T.Asahina
- P21. Warm temperature press formability of rolled AZ31 magnesium alloy film
..... H.Takazawa, S.Kamado, Y.Kojima, K.Mitobe, N.Takahashi
- P22. Dislocation of hexagonal closed packed metals at Ambient-temperature creep
..... T.Matsunaga, E.Sato
- P23. Semi-solid microstructure changes of strain induced Al-Mg-Si-Mn wrought alloys
..... T.Yoshida, H.Tezuka, T.Sato, E.Witthaya
- cancellation P24. Effect of the solution treatment on precipitation behavior of AZ91 magnesium alloy
..... Y.Kida, T.Haitani, Y.Tamura, N.Kono
- cancellation P25. Effect of Al contents on mechanical properties of AZ31 magnesium alloy
..... T.Yanagisawa, T.Haitani, Y.Tamura, N.Kono
- P26. Electrochemical activation of aluminium by trace element indium
..... B.Graver, V.H.Antonijs, J.C.Walmsley, K.Nisancioglu
- P27. Microstructure and mechanical property of Al-W alloy produced by centrifugal duplex casting
..... K.Akiba, Y.Saitou, A.Omoto, H.Masuo, K.Murata, M.Murakami