

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 MgB₂/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 Mg₉₇Zn₁Y₂ 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 Al₈₅Ni₁₀La₅ 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 SO₂ 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
..... Pizhi Zhao,T.Kobayashi,T.Tsuchida
26. Aging behavior after room temperature rolling of 6000 series Aluminum alloys
..... M.Nagai,K.Muramatsu,S.Komatsu
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
33. Precipitation and control of recrystallization textures in Al-Mg-Si alloys
..... K.Kashihara,H.Inagaki
34. Microstructure of Al-3mass%Mg alloy spot heated utilizing a fiber-laser system
..... T.Shibayanagi,T.Matsumoto,Y.Soga,M.Tsukamoto,N.Abe
35. Influence of large particles in hyper-eutectic Al-Si alloys on high-cycle fatigue
..... S.Aoki,M.Nakamoto,O.Umezawa,Y.Morishita
36. Characteristics of eutectic system Al-Si alloy billets produced by various continuous casting process
..... H.Takagi,Y.Uetani,M.Dohi,T.Watanabe,T.Yamashita,S.Ikeno
37. Fabrication of hypereutectic Al-Si alloy billet by continuous casting process used a heat insulating and rapid cooling mold
..... H.Takagi,T.Watanabe,M.Dohi,T.Yamashita,T.Kawabata,K.Matsuda,S.Ikeno
38. Development of precision forging process for hyper-eutectic Al-Si alloy
..... K.Kanbara,N.Miyamoto,T.Sekiguchi,O.Umezawa
39. Progress in forgiability of new hyper-eutectic Al-Si casting bar and application for automotive parts
..... K.Kanbara,N.Miyamoto,T.Sekiguchi,O.Umezawa
40. Development of free cutting and wear resistance aluminum extrusion materials
..... N.Takase,S.Murakami
41. Effect of product conditions for bake-hardenability aluminum extrusion materials
..... T.Yoshida,S.Murakami,M.Aono,T.Miyaki
42. Deformation microstructure of cold-rolled pure aluminum single crystal having cube orientation
..... K.Kashihara,S.Shibayanagi,H.Inagaki
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 β titanium alloy TIMETAL[®]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.Do,M.Hatanaka,M.Ikeda,M.Ogawa
46. Influence of cold-rolling on various properties of Ti-20V-4Al-1Sn alloy
..... T.Nishitani,K.Imaizumi,S.Komatsu
47. Effect of medical polymer filling on mechanical properties of porous titanium
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48. HAp coating and its formability of biomedical alpha, alpha + beta and beta type titanium alloys through alkali treatment
..... T.Akahori,M.Niinomi,M.Nakai,M.Ogawa
49. Observations of voids in aluminum shell formed by an incremental process
..... H.Takano,N.Hagiwara,K.Kitazawa
50. Incremental bending of shaped beams
..... Y.Jin ,T.Yamada,K.Ishikami,T.Kuboki,M.Murata
51. Stretch Bending for Rectangular Tube
..... K.Takahashi,T.Kuboki,M.Murata
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
..... Y.Kubota,M.Sugamata,M.Kubota,J.Kaneko

57. Effect of post weld heat treatment on tensile properties of friction spot welded 6061 aluminum alloy joint H.Arashida,K.Katoh
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
60. Intermediate layer of the Al/Fe and Al/Ni joint welded by magnetic pressure seam welding M.Watanabe,S.Kumai,K.Ishiuchi,S.Kajiyama,T.Aizawa
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
64. Cutting conditions in micro drilling of pure titanium K.Shimomura,K.Sakurai,T.Sawai
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
69. Improvement of surface roughness of a product by the micro-grooves formed on tool surface S.Kamitani,K.Nakanishi,S.Syahrullail
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
83. Scanning electrochemical microscopy investigation of brazing areas Y.Oya,Y.Kojima
84. Non-contact measurement on temperature and thickness of aluminum alloy sheets by laser ultrasonics H.Tanaka,N.Takahashi

85. A study of the thin film analysis in EPMA
..... M. Takayanagi, M. Yonemitsu
86. Texture evaluation of metal surfaces
..... M. Yonehara, S. Kumai, H. Isono, T. Sugibayashi
87. Magnesium alloy research using EBSD
..... Mark D. Nave
88. Textures in 6061 aluminum alloy induced by a repeated cross roll-forming
..... A. Yamamoto, Y. Tsukahara
89. Relationship between rolling and recrystallization textures and precipitation in 6061 aluminum alloy
..... K. Kashihara, H. Inagaki
90. Effect of crystallographic texture on n value of the Al-Mg-Si alloy sheets
..... M. Asano, H. Uchida, H. Yoshida
91. Characteristics of nanoclusters in Al-Mg-Si alloys in terms of tensile deformation behavior
..... A. Serizawa, S. Hirose, W. J. Poole, T. Sato
92. Effect of Mn on creep properties of wrought aluminum alloy sheets
..... N. Sakaguchi, H. Tanaka, H. Yoshida
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
..... M. Ogawa
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
..... K. Nakagawa, Y. Kuruhara, H. Morikuni, T. Kanadani, H. Yasunaga, G. Itoh
99. Observation of grain boundary microstructure in Al-5%Mg alloys deformed at elevated temperatures
..... 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
104. High speed heavy rolling of AZ80 magnesium alloy sheet
..... Y. Watanabe, T. Sakai, H. Utsunomiya
105. Superplasticity and diffusion bonding of fine grained Mg-Al-Zn-Ca base alloy sheets
..... K. Yamashita, K. Matsuki, T. Aida, N. Takatsuji
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
..... S. Hosaka, M. Katsuta
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
110. In-situ observation of fracture processes in extruded AZ61A magnesium alloy
..... K. Hamamura, S. Morita, S. Tanaka, N. Ohno, Y. Kawakami, T. Enjoji
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..... S. Mori, T. Kawabata, K. Matsuda, S. Ikeno
112. Morphology and crystal structure of precipitates in Mg-Zn-Al alloys
..... K. Oh-ishi, K. Hono, K. S. Shin

113. Enhanced Age hardening of Mg-Zn-Zr alloys by trace additions of Ag and Ca
..... C.L.Mendis,K.Oh-ishi,K.Hono
114. Microstructures and mechanical properties of Mg-Zn-Mn alloys
..... Y.Kawamura,S.Kamado,Y.Kojima,T.Murai,T.Takahashi,S.Hanaki
115. Aging behavior and mechanical properties of extruded Ca added magnesium alloys
..... K.Shimizu,A.Nakagawa,T.Yamashita,H.Mukaiyama
116. Strengthening mechanism of extruded Mg-Al-Zn-Ca series magnesium alloys
..... Y.Aoki,T.Tsukeda,K.Saito,K.Shimizu,A.Nakagawa,T.Yamashita,M.Suzuki,S.Kamado
117. Mechanical properties of Ca added magnesium alloy by drawing
..... Y.Oishi,K.Mori,K.Kawabe
118. Characteristics of control-rolled Ca added magnesium alloys
..... T.Hironaka,T.Suzuki,H.Yoshida,S.Isogawa
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..... K.Saito,M.Muro,H.Yamada,T.Tsukeda,Y.Aoki,T.Yamaguchi
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121. Preparation and Mechanical Properties of Mg-TM(TM=Transition Metals)-Y alloys
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122. Effect of high temperature aging before extrusion on the mechanical properties of the Mg-Zn-Gd alloy
..... M.Sasaki,M.Yamasaki,Y.Kawamura
123. HRTEM observation of precipitates at early stage during aging in Mg-16.9%Gd-0.51%Zr alloy
..... T.Kawabata,T.Matsuno,K.Matsuda,S.Kamado,Y.Kojima,S.Ikeno
124. Precipitation sequences in Mg-Gd-Zn alloys and effects of Ag and Cu additions on the microstructure
..... K.Yamada,H.Hoshikawa,S.Kamado,Y.Kojima
125. Effects of Ag and Cu additions on microstructures and mechanical properties of Mg-Gd-Zr alloy
..... H.Hoshikawa,S.Kamado,K.Yamada,Y.Kojima
- [Cancellation] 126. Mechanical properties of Mg-Gd-Zn-Zr alloy castings
..... T.Ozaki,Y.Kuroki,K.Yamada,H.Hoshikawa,S.Kamado,Y.Kojima
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
..... M.Yoshida,S.Tanaka,T.Watanabe,K.Shinozaki,H.Yamagata,H.Nagaumi
131. Development of apparatus to obtain mechanical properties of semi-liquid aluminum alloys
..... S.Tanaka,T.Watanabe,M.Yoshida,K.Shinozaki,H.Yamagata,H.Nagaumi
132. Improvement of the Ohya-method to obtain mechanical properties of semi-solid aluminum alloys.
..... H.Chiba,H.Yamagata,M.Yoshida
133. Effect of Mn and Cr Addition on Hot Tearing during Solidification of 2xxx alloy with High Sn Content
..... H.Nagaumi,S.Suzuki,Y.Takeda,T.Umeda,T.Okane
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..... Y.Arai,Y.Nagata,K.Tokuda,Y.Hori,S.Kumai
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136. Precimeter level control system realizes optimum control of molten metal level /metal head for casting automation
..... M.Suzuki,Jan Strombeck
137. Application of cover gas for magnesium melt to aluminum alloy melt.
..... K.Tokuda,Y.Nagakura,H.Sanui,Y.Nomura
138. Mechanical properties of sheet metal wastes flattened by an incremental forming
..... H.Takano,K.Kitazawa,Y.Kori
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143. Effect of peening treatment on fatigue property of AC4CH-T6
..... N.Hasegawa,T.Yamada,M.Kakizaki,K.Tokaji,Y.Uematsu
144. Fatigue behaviors of 6061 base aluminum alloy extrusions in humid atmosphere
..... S.Nakanishi,Q.Cui,T.Sakagami,A.Watanabe,K.Ichitani
145. Effect of cladding layer strength on fatigue behavior of aluminum cladding alloy
..... T.Ueda,A.Tsuruno,F.Koshigoe
146. Precipitate orientation in an aluminum casting alloy during a thermo-mechanical loading
..... T.Fukunaga,H.Toda,M.Kobayashi,T.Kobayashi
147. Stretch-strain marks and strain rate of tensile deformed 5083 aluminum alloy
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149. Dependence of crystallographic orientation on tensile deformation in Al-Mg-Si alloys with Cu
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150. Improvement of ductility of the friction stir welded Al-Mg-Si alloy sheet by reversion heat treatment
..... T.Minoda,K.Tanaka,M.Asano,M.Kumagai
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155. Continuous casting of AZ31B magnesium alloy strip using semisolid slurry
..... H.Shimada,F.Kido,T.Motegi
156. Grain refinement performance of Al cast by cold rolled Al-Ti alloy refiner
..... H.Sato,K.Ota,H.Kato,O.Sitdikov,Y.Watanabe,Z.Zhang,K.Tsuzaki
- P01. 3D Visualization of relationship between internal pore and fracture strength of Al-Si-Mg Alloy
..... D.Yunirsyam,H.Toda,M.Kobayashi,T.Kobayashi,H.Horikawa,S.Suzuki
- P02. Rheocast of Al-Si-Mg alloy containing 1mass% Fe using semi-solid slurry made by repeated extrusion method
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- P04. Change in hardenss statistics of aluminium with plastic strain
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- P07. Dependence of crystallographic orientation on tensile deformation in Al-Mg-Si alloys
..... K.Horiba,J.Tsukiyama,K.Matsuda,Y.Uetani,S.Ikeno
- P08. Microstructure and mechanical properties of Al-Fe-X rapidly solidified powder metallurgy alloys
..... T.Genkawa,M.Yamasaki,Y.Kawamura
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- P10. Behavior of hydrogen in 7075 aluminum alloys deformed under a moist air
..... Y.Arai,G.Itoh,T.Izumi,N.Itoh,T.Inami
- P11. Mechanical properties and machinability of addition various low melting elements to Al-Cu alloys
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- P12. Deformed microstructure and mechanical properties of a Gum Metal affected by processing parameters
..... R.Aoto,G.Itoh,Y.Motohashi

- P13. Manufacturing of open-cell foam from recycled aluminium foil chips
..... J.Sasaki,K.Kitazono
- P14. Fabrication of high performance active laminates and their characterization
..... H.Asanuma,T.Nakata,T.Tanaka,Y.Adachi
- P15. Mechanical properties of rolled sheet using a 6061 aluminum alloy particle dispersed metal matrix composite by friction surfacing
..... D.Nakama,K.Katoh
- 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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- P18. Ultrasonic welding of AZ31 magnesium-alloy board
..... A.Goto,N.Anbe,G.Motoyasu
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..... M.Takai,M.Takaya
- P20. Friction and wear properties of anodic oxide films containing an iodine compound
..... T.Kawano,M.Takaya,M.Maejima
- P21. Corrosion resistance of rosin coated magnesium alloy
..... M.Sato,M.Kobayasi,M.Takaya
- P22. Non-Chromate Corrosion Resistance Film Using Plasma-Chemical Process
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- P23. Characterization of TiO₂ thin films on binary aluminum alloy plates
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- P25. Tensile deformation of pure magnesium single crystal produced by the OCC process
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