

Program
 of
The 136th Conference of Japan Institute of Light Metals
(May 11-12, 2019, Toyama International Conference Center)

1. Effect of additive element on aging products of Al-1.0mass%Mg₂Si alloy K.Ikeda, T.Sun, Y.Shimada, S.Lee, T.Tsuchiya, K.Matsuda, T.Homma
2. TEM observation of Al-7%Si-0.3%Mg alloy demolded and aged at 473K K.Muro, Y.Makita, T.Tsuchiya, S.Lee, S.Saikawa, K.Matsuda, S.Ikeno
3. Precipitates observation of Al-7Si-0.4Mg casting alloy extracted by the thermal phenol method Y.Makita, K.Muro, T.Tsuchiya, S.Lee, S.Saikawa, S.Ikeno, K.Matsuda
4. HRTEM observations in the early stage of aging of 6000 series aluminum alloy AmalinaAina, Y.Asada, H.Yamato, S.Lee, T.Tsuchiya, K.Matsuda, K.Ikeda, T.Homma
5. Microstructure observation of pre-strained Cu and Ag added Al-Mg-Si alloy with aging treatment K.Yatsukura, T.Tsuchiya, S.Lee, K.Matsuda, K.Ikeda, T.Homma
6. Effect of nanoclusters formed during pre-aging and natural aging on artificial age-hardening behavior of Al-Mg-Si alloys S.Tsukamoto, S.Hirosawa, Y.Koshino, Y.Aruga, K.Matsumoto, H.Shishido
7. Two-step aging behavior of Al-1.0mass%Mg₂Si(-Ni,Co,V) alloys pre-aged at 393K M.Amano, T.Umezawa, T.Tsuchiya, S.Lee, S.Ikeno, K.Matsuda
8. Effect of Ag addition on microstructure in Al-1.0mass%Mg₂Ge alloys S.Umemura, T.Tsuchiya, S.Lee, K.Matsuda, K.Ikeda, T.Homma, S.Ikeno
9. TEM observation of Al-1.0mass%Mg₂Ge alloys with different transition elements T.Kataoka, S.Umemura, T.Tsuchiya, S.Lee, K.Matsuda, K.Ikeda, T.Homma, S.Ikeno
10. Effect of intermediate plastic work on two step aging behavior in A7050 aluminum alloy Y.Sano, S.Muraishi, Y.Harada, S.Kumai
11. Effect of retrogression on mechanical properties in 7000 series aluminum extrusion material K.Shibata, T.Yoshida, S.Murakami
12. Effect of Cu on mechanical properties and precipitation of Al-MgZn₂ alloy aged at 473K T.Yasumoto, T.Tsuchiya, S.Lee, K.Matsuda, S.Nishikawa, K.Shibata, T.Yoshida, S.Murakami, S.Ikeno
13. 【Keynote】 Crystallographic orientation relationships of T-/S-phase aggregates in an Al-Cu-Mg-Ag alloy J.K.Sunde, S.Wenner, A.T.J.V.Helvoort, R.Holmestad
14. 【Theme session Invited Lecture】 Advanced electron microscopy of fine precipitates in aluminum alloys E.Abe
15. Aging behavior of Al-Li(-Cu)(-Mg) alloys deformed by high-pressure torsion (HPT) Y.Haizuka, T.Tsuchiya, S.Lee, S.Saikawa, K.Matsuda, Z.Horita, S.Hirosawa, S.Ikeno
16. 【Keynote】 Characterization the Density and Spatial Distribution of Dispersoids in Al-Mg-Si Alloys M.S.Remoe, I.Westermann, K.Marthinsen
17. Effect of homogenization on the microstructure of Al-0.33%Mg-0.67%Si and Al-0.67%Mg-0.33%Si (mol%) alloys S.Qin, T.Tsuchiya, S.Lee, K.Mastuda, S.Ikeno, T.Homma, K.Ikeda
18. Studying the influence heavy deformation and natural aging on precipitation in an Al-Mg-Si-Cu alloy E.Thronsen, J.K.Sunde, I.Erga, K.Marthinsen, R.Holmestad, C.D.Marioara, K.Minakuchi, T.Katsumi, K.Matsuda
19. TEM investigation of H effect into solid solution decomposition in an Al-Zn-Mg alloy A.Bendo, T.Tsuchiya, S.Lee, K.Matsuda, K.Nishimura, N.Nunomura, H.Toda, K.Hirayama, K.Shimizu, H.Gao, M.Yamaguchi, K.Ebihara, M.Itakura, T.Tsuru, S.Nishikawa, K.Shibata, T.Yoshida, S.Murakami, S.Ikeno
20. 【Keynote】 Materials analysis using muon J.Sugiyama
21. Time variation of muon spin relaxation rate of Al-1.6%Mg₂Si in natural aging K.Nishimura, K.Matsuda, N.Nunomura, S.Lee, T.Namiki, I.Watanabe, T.Matsuzaki
22. Investigation of cluster formation behavior in Al-Mg-Si alloy by soft X-ray XAFS analysis T.Serina, N.Takehiro, A.Hiroki
23. Dislocation density change during tensile test in Al-Zn-Mg-Cu alloys H.Adachi, K.Iwata
24. Effect of natural aging on mechanical properties in aluminum die-casting material S.Nishikawa, T.Yoshida, S.Murakami
25. First-principles calculation of Mg₂Zn₁₁ and Mg₃₂(Al,Zn)₄₉ N.Nunomura, K.Morita, T.Namiki, K.Nishimura, K.Matsuda
26. Effect of Pre-aging on Final aging Behavior of Al-Mg-Si alloys T.V.Ba, T.Tsuchiya, S.Lee, S.Ikeno, K.Matsuda

27. Effect of cold-rolling on aging precipitation of Al-Cu-Mg alloy with different Cu/Mg ratio aged at 473K
..... M.Matsumoto, T.Tsuchiya, S.Lee, K.Matsuda, K.Ikeda, T.Homma, S.Ikeno
28. Atomic microstructure of kink formed in LPSO type Mg alloys
..... D.Egusa, E.Abe
29. Control of the formation behavior of deformation band in the Mg-based LPSO-phase, and the evolution to the Mg-Al alloys
..... K.Hagihara, K.Hayakawa, Y.Narimoto, R.Ueyama, T.Nakano, M.Yamasaki, T.Mayama, Y.Kawamura
30. Effect of flow stress in large strain range in finite element simulation of LPSO type magnesium alloy
..... S.Inoue, K.Suzawa, R.Matsumoto, Y.Kawamura
31. Orientation effect on deformation behavior in directionally solidified Mg-LPSO alloy studied by in-situ techniques
..... D.Drozdenko, K.Máthis, M.Yamasaki, S.Harjo, W.Gong, K.Aizawa, Y.Kawamura
32. **【Award Lecture】** High temperature Creep behavior and strengthening mechanism in Mg alloys
..... M.Suzuki
33. Relationship between creep strength and c-dislocations by pre-straining in Mg-Y-Zn dilute solid solution alloys
..... M.Suzuki, D.Sugita, N.Tsuchida, F.Kondo
34. Activity of non-basal slips in Mg-Li alloy
..... S.Ando, H.Miyano, K.Takemoto, H.Kitahara
35. Effects of cerium additions on deformation behavior of magnesium single crystals
..... H.Kitahara, K.Hayashi, M.Tsushida, S.Ando
36. Microstructure observation of β_1' in binary Mg-2.2mol%Zn alloy aged at 473K
..... T.Maeda, B.Artenis, T.Tsuchiya, S.Lee, S.Ikeno, K.Matsuda
37. The improvement of room temperature superelasticity in Mg-Sc binary alloy through grain size control
..... K.Yamagishi, D.Ando, Y.Sutou, J.Koike
38. Thermal conductivity and mechanical property of heat resistant Mg-Al-Ca casting alloy with 3D network intermetallic compounds
..... Y.Ienaga
39. Effect of grain refinement on mechanical properties in AZ31B magnesium alloy by Equal-Channel Angular Pressing
..... R.Yamada, T.Orii, T.Miyagawa, H.Yasui, S.Yoshihara, Y.Ito
40. Effect of grain size on mechanical properties of friction-stir processed Mg-Al-Zn alloy
..... K.Ajiro, N.Ozawa, S.Kuramoto, E.yukutake
41. **【Keynote】** Prototyping of partial body of a high speed railway vehicle by using new flame-retardant magnesium alloys
..... T.Ishikawa, K.Shimizu, H.Ueda, K.Yamada, S.Sugimoto, M.Noda, K.Yoshida, Y.Chino
42. Flat bending fatigue characteristics of Mg-Al-Ca-Mn alloy for high speed extrusion
..... S.Kanitani, Y.Matsumoto, M.Ogawa, K.Shimizu, T.Nakata, Y.Miyashita, S.Kamado
43. Effects of microstructure and weld zone on plane bending fatigue properties of MIG welded flame retardant
Mg-8Al-1Zn-1Ca alloy sheet
..... M.Noda, T.Ito, M.Ueda
44. Plate bending fatigue properties of Mg-9%Al-1%Zn-2%Ca alloy FSW joints
..... N.Saito, X.Huang, Y.Chino, H.Ueda, M.Inoue, T.Matsumoto, E.Yukutake
45. Effect of microstructural factors on mechanical properties of an extruded Mg-4.0Al-1.0Ca-0.2Mn (mass%) alloy
..... D.Kawagoe, T.Nakata, S.Kamado, Y.Matsumoto, K.Shimizu
46. Effect of Zn addition and rolling conditions on mechanical properties of a rolled Mg-8Al-1Ca (mass%) alloy sheet
..... T.Nakatsugawa, T.Nakata, S.Kamado, K.Suzawa, K.Yoshida, N.Kawabe
47. Influence of Friction Stir-Process on Mechanical Properties of Mg-Al-Zn-Ca Alloys
..... K.Kimura, N.Ozawa, S.Kuramoto, E.Yukutake
48. Effect of calcium addition on deformation behavior of magnesium in tension and compression
..... Y.Chikanari, T.Nakatsuji, N.Ikeo, T.Mukai
49. Investigation of factors affecting weld strength in MIG welded flame retardant magnesium alloys
..... Y.Takigawa, T.Uesugi, M.Ueda, Y.Kinomoto, K.Higashi
50. **【Keynote】** Fatigue Life Prediction of Magnesium Alloys by Crystal Plasticity Analysis
..... M.Enoki, F.Briffod, T.Shiraiwa, S.Nakajima
51. Database designing for performance prediction of flame resistant magnesium alloys with materials integration technology
..... K.Ito, M.Enoki
52. Investigation of drawability of flame resistance magnesium alloy sheet
..... T.ITO, H.Katagiri, M.Noda
53. Effect of texture on formability of flame-resistant magnesium alloy sheets
..... S.Kobune, G.Itoh
54. Real-time detection and source discrimination of welding defects in FSW of flame resistant magnesium alloy using wireless AE monitoring
..... K.Ito, K.Takahashi, E.Yukutake, M.Enoki

55. Evaluation of the resistance to hydrogen embrittlement in some flame-retardant magnesium alloy welds by means of SSRT test K.Hashimoto, G.Itoh, S.Kuramoto, J.Kobayashi, T.Ito, M.Noda
56. Resistance to humid gas stress corrosion cracking in some Mg-Al-Zn-Ca series alloys Y.Seki, Y.Okazaki, R.Sano, G.Itoh, A.Kurumada, S.Kuramoto, J.Kobayashi, T.Ito, M.Noda
57. Resistance to humid gas stress corrosion cracking in some weld of Mg-Al-Zn-Ca series alloys Y.Okazaki, Y.Seki, R.Sano, G.Ito, A.Kurumada, S.Kuramoto, J.Kobayashi, T.Ito
58. Influence of Al concentration and Zn addition on the corrosion resistance of rolled Mg-Al-(Zn)-Ca magnesium alloys I.Nakatsugawa, N.Saito, K.Suzuki, Y.Fukuda, T.Ito, M.Noda, Y.Chino
59. Ejecta and Crater Size on High-purity Aluminum and Aluminum Alloys by Hypervelocity Impact M.Nishida, Y.Mozaki, H.Yamada, H.Tanaka
60. The effect of yield strength on the generation of dent on Aluminum outer panel T.Kobayashi, K.Akasaki, H.Konishi, S.Tamehiro
61. Measurement of residual stress distribution in high depth in aluminum alloy MiyazakiSatoshi, MoriHisashi, TanakaHiroki
62. Development of evaluation for material properties of Aluminum plate by chip shape on orthogonal turning K.inagi, K.Aoki, S.Horike
63. Effect of cold rolling reduction on mechanical properties of Al-Fe alloy foils T.Suzuki, T.Nejigaki, M.Endo, Q.Cui, S.Kuramoto
64. Effect of cold rolling on mechanical properties of Al-Mg-Si alloys MiuraTakuma, ShigeruKuramoto, GorohItoh, JunyaKobayashi
65. Effects of insoluble trace impurity atoms on hot ductility of Al—Mg solid solution alloys T.Ito, K.Kawasaki, H.Fujiwara, T.Mizuguchi
66. High speed deformation structure at the surface of MPFed aluminum sheet and numerical analysis of deformation behavior T.Kambe, S.Muraishi, S.Kumai
67. Pseudo-Elastic Behavior and Martensitic Transformation of Al₄Ca Phase in Al-Ca Eutectic Alloy K.Tomita, D.Ando, Y.Sutou, J.Koike
68. Microstructure analysis of quenched semi-solid A356 aluminum alloy slurry by using Weck's reagent S.Lei, L.Gao, Y.Harada, S.Kumai
69. Die casting of thin fin using hyper eutectic Al-Si alloy H.Fuse, M.Terao, Y.Miura, T.Haga
70. Microstructure observation in Al-0.5mol%Mg₂Si cast alloys added various excess Si T.Tsuchiya, Y.Makita, S.Lee, S.Saikawa, S.Ikeno, K.Matsuda
71. Damage of fine eutectic Si-particles in Al-10%Si cast alloy for tensile test S.Furuta, M.kobayashi, T.Aoba, H.Miura
72. Effect of superheated melt treatment on AlP-compound size in Al-Si alloy R.Inoue, I.Yamamoto, K.Oda
73. Adsorption of phosphorus into carbide in eutectic Al-Si alloy after superheated melt treatment T.Tsubasa, R.Inoue, K.Oda
74. Influence of AlP and Mg content in solidification structure of Al-10% Si system alloys Y.Zhao, H.Kazuda, S.Ishihara, S.Ikeno, S.Saikawa
75. Effect of AlP in solidification structure of Al-2%Mg-1%Si alloy castings A.Osugi, S.Ishihara, S.Ikeno, S.Saikawa
76. Effects of beryllium addition on solidification structure of Al-Mg-Si alloy T.Kitamura, H.Yasuda
77. 【Award Lecture】 Study of natural aging in Al-Mg-Si alloys by positron annihilation spectroscopy and first-principles calculation H.Araki, M.Ozaki, K.Sugita, M.Mizuno, K.Matsumoto, H.Shishido, Y.Aruga, Y.Shirai
78. Effect of reversion treatment time on two-step aging behavior of 6061 aluminum alloy K.Yasue, Y.Nakayama
79. Change of Mechanical Properties by aging heat treatment in Al-5%Mg-2%Si Cast Alloy M.Kobayashi, K.Taniguchi, S.Furuta, M.Toyoda, T.Aoba, H.Miura
80. Effect of Si, Ni contents on Elevated-temperature Strength of Al-Cu-Mg alloys S.Chen, M. Dohi
81. Prediction of Temperature Change Using Uniform Heating Model on Aluminum Foam Formation Process by Halogen Lamp Heating R.Nagahiro, Y.Hangai, A.Yano, K.Amagai
82. Resistance to hydrogen embrittlement of an Al-4%Cu-1.5%Mg alloy in humid air T.Manaka, M.Yoshida
83. Effect of hydrogen on age hardening in Al-2Zn-4Mg alloy K.Takamoto, T.Yasumoto, ArtenisBendo, T.Tsuchiya, S.Lee, K.Matsuda, K.Nishimura, N.Nunomura, H.Toda, K.Hirayama, K.Shimizu, H.Gao, M.Yamaguchi, K.Ebihara, M.Itakura, T.Tsuru, S.Ikeno

84. Hydrogen embrittlement cracking behavior of MIG weld of a 5083 aluminum alloy assessed by humid gas stress corrosion cracking test A.Ghorani, T.Kiuchi, T.Ohbuchi, G.Itoh
85. Pick-up reduction effect of die coating on hot extrusion of 6063 aluminium alloy S.Oda, Y.Watanabe, T.Funazuka, N.Takatsuji, K.Matsuda, K.Dohda
86. Effect of added element on recrystallized texture development of extruded aluminum alloys M.Araki, K.Matsuda, S.Lee, T.Tsuchiya, S.Ikeno
87. Microstructure observation of air cooled 6005C aluminum alloy after extrusion K.Odajima, K.Yatsukura, T.Tsuchiya, S.Lee, M.Araki, K.Matsuda, S.Ikeno
88. Grain refinement of Al-Si alloy by heteromorphic die extrusion T.Tokunaga, K.Matsuura, M.Ohno
89. Numerical analysis of extrusion process for multi-hollow aluminum alloy profiles K.Tanaka, P.Lin
90. Microstructure and its thermal stability of hot rolled Al-1%Mn alloy K.Ikeda, H.Osafune, S.Miura, H.Imoto, K.Sato, M.Nagoshi
91. In-situ observation of recrystallization behavior and evaluation of recrystallization texture for 1100 Aluminum M.Ito, Y.Nagaoka
92. Effect of silicon addition on recrystallization in brazing heat treatment for Al-Mn-Si-Zr alloy D.Shimosaka, M.Ueno, T.Anami
93. Relationship between Vickers microhardness and full width at half maximum of Al alloy powder produced by mechanical milling process Kento.Mizuguchi, Masahiro.Kubota, Masahiko.Shioda
94. Influence of kinetic parameters on intermediate layer and temperature history of Al-Fe magnetic pulse welded joints J.Li, S.Muraishi, S.Kumai
95. Effect of impact angle on Al/Cu joint interface morphology fabricated by MPW S.Kimura, S.Muraishi, S.Kumai
96. Influence of Mg addition to core material on diffusion of Zn in sacrificial layer during blazing of Aluminum blasing sheet Y.Shibuya, A.Tsuruno
97. Change in porous structure and liquid phase migration in bonding porous aluminum with an Al-Si based alloy brazing sheet T.Kurosaki, T.Minoda, M.Kobashi, N.Takata, A.Suzuki
98. Investigation on resistance spot weldability of Aluminum Alloy in combined adhesive bonding M.Yoshizawa, T.Iwase
99. Mechanical interlocking of aluminum alloys with stainless steel strands using friction stir forming H.MofidiTabatabaei, T.Ohashi, T.Nishihara
100. Fabrication of a pair of adjacent cylindrical extrusions on A5083 aluminum alloy plate by friction stir forming T.Ohashi, H.MofidiTabatabaei, T.Nishihara
101. Interfacial phenomena in high speed rotational friction welding of 5052aluminum alloy small rods T.Miyazaki, M.Maeda
102. Influence of welding condition and tool shape on material flow of friction stir welding between aluminum alloy and steel Y.Ogura, T.Yasui, X.Hulin, M.Fukumoto
103. Ultrasonic bonding of aluminum bundled wires and aluminum plate for electrical wiring S.Ishii, M.Maeda, H.Uchida, M.Shioda
104. Grain Refinement of Additively Manufactured Aluminum by Addition of TiC Heterogeneous Nucleation Site Particles Y.Watanabe, H.Sugano, T.Chiba, H.Sato, N.Sato, S.Nakano
105. Evaluation of fatigue properties in selective-laser-melted Al-10%Si-0.4Mg alloy with various porosities T.Hirata, T.Kimura, T.Nakamoto
106. Fabrication of carbon-fiber dispersed aluminum matrix composite by selective laser melting T.Kimura, T.Nakamoto, T.Suyama, T.Miki
107. Energy absorption property of additive manufactured porous aluminum alloys with an acorn shape Y.Fujimori, T.Hamaguchi, K.Omori, K.Kitazono
108. Investigation of deformation behavior of {332}<113> deformation twin on metastable β -type Ti alloy single crystal K.Cho, R.Morioka, H.Y.Yasuda
109. Influence of multi-stage heat treatment on texture and shape memory properties in Ti-4.5Al-3V-2Fe-2Mo alloy OhataKota, H.Tobe, E.Sato
110. Changes of interfaces and microstructure of refractory niobium disilicide coating TiAl alloy after high-temperature oxidation Y.Tanaka, K.Ogihara, K.Hasezaki
111. High-temperature oxidation and its kinetics study of TiAl-Zr alloys in air T.Takahashi, T.Manaka, M.Todai, H.Hirazawa, E.Ikeda, T.Ouchi
112. Temperature-dependent mechanical behavior of Nb inserted $\text{Si}_3\text{N}_4/\text{Ti}$ joints brazed with Ag and Au-filler alloy F.S.Ong, H.Tobe, E.Sato

113. Local Mechanical Response of Cold Worked Ti-18Mo Alloy K.Numata, T.Kimura, S.Kuramoto, E.Nakagawa, T.Ohmura
114. Influence of phase stability on deformation mechanism of Ti-Nb based alloy S.Yonemura, T.Kimura, S.Kuramoto, E.Nakagawa, T.Ohmura
115. Development of Ti-Nb alloy via selected laser melting M.Todai, R.Kato, T.Nagase, T.Nakano
116. Microstructure and mechanical properties of $\alpha+\beta$ type Ti-5Nb alloys with high oxygen content K.Ueda, Y.Hirose, M.Omiya, T.Narushima
117. Microstructure and interfacial strength of Ti-6Al-4V/ZrO₂ sintered bonding material by SPS method O.Katagiri, R.Koizumi, N.Aoyagi
118. Effects of heat-treatments of Ti substrate on anodization behavior and morphology of anodic oxide layers H.Tsuchiya, Y.Kamimura, S.Fujimoto
119. Fabrication and characterization of Mechanoluminescence particle dispersed Al-7%Si based composite Y.Ota, T.Tsuchiya, S.Lee, S.Ikeno, Y.Horita, T.Ohji, K.Amei, K.Shibata, K.Okino, K.Matsuda
120. Si coating on magnesium alloys to improve corrosion resistance Y.Kang, T.Ishizaki, T.Koshina, Y.Nakagawa
121. Investigation of influence of polymer particles on friction and wear characteristics of magnesium based composite material Y.Geshi, T.Matsuoka, T.Hirayama, H.Sakamoto, H.Somekawa
122. Galvanic corrosion between aluminum alloy 5052 and CFRP in NaCl solution M.Sakai, H.Serita
123. Attempt for improving the resistance to SCC in an Al-Zn-Mg-Cu alloy by means of quenching condition control K.Hiyama, G.Akaba, G.Itoh, S.Ishizawa, S.Kuramoto
124. Effect of surface treatment and durability condition on adhesive durability of aluminum sheet T.Kojima, Y.Ota, Y.Takahashi
125. Effect of additional elements on corrosion resistance of Al-Si filler materials in alkaline solution S.Maruno, M.Yoshino, S.Iwao
126. Analysis of corrosion behavior of aluminum in aqueous solutions with electrochemical impedance spectroscopy M.Sakairi, K.Otani, Md.S.Islam
127. 【Award Lecture】Assessment of mechanical behaviour via 3D/4D imaging: Its recent progress H.Toda
128. 4D characterization of the stress corrosion cracking behavior in Al-10Mg aluminium alloy H.Toda, K.Hirayama, H.Su, D.S.Fu, K.Uesugi, A.Takeuchi
129. Three-dimensional observation of grain boundary sliding inside superplastic 7475 aluminum alloy H.Masuda, H.Tobe, T.Hara, E.Sato
130. Effect of testing temperature on serration behavior of 7075 aluminum alloy in indentation H.Yamada, H.Ootani, T.Kami, N.Ogasawara
131. Characteristics of extraction curves of hydrogen from aluminum alloys by inert gas fusion method TakayukiMatsuno, KenjiWada
132. Attempt for aluminum smelting by hydrocarbon plasma K.Namai, T.Inoue, G.Itoh
133. Reduction process of aluminum oxide by hydrogen plasma T.Inoue, G.Itoh, N.Sato, T.Ikehata, R.Kurumada
134. Metal recovery from aluminum powder S.Ikeda, Y.Ishiwata, Y.Suzuki, K.Higashimura, A.Tanaka
135. Castability and microstructural evolution of high manganese-containing Al-Mn-Si alloys fabricated by vertical-type high-speed twin-roll casting T.H.Nguyen, R.Song, Y.Harada, S.Muraishi, S.Kumai
136. Thermal fluid analysis inside nozzle tips of horizontal twin roll continuous casting machine for aluminum alloy K.Kamiya, K.Fukawa, Y.Matsui
137. Casting of Al-Mg alloy clad strip by roll caster M.Tsuchida, H.Sakata, T.Haga
138. Casting of 1070 aluminum rod by casting wheel caster K.Tsuchitani, T.Haga
139. Effect of casting speed on solidification structures of Al-Mn alloy wires produced by OCC process T.Sawaya, A.Morita, Y.Yanagihori, G.Motoyasu
140. Estimation of anisotropic yield function for aluminum alloys using data assimilation A.Yamanaka, T.Kuwabara, K.Sasaki
141. Material modeling and forming limit analysis for 6000 series aluminum alloy sheet using multiaxial tube expansion test Y.Ogasawara, T.Hakoyama, H.Takeda, T.Ikeda, T.Kuwabara

142. Material Modeling of 5000-Series Aluminum Alloy Sheet Using Biaxial Tensile Tests and Hole Expansion Simulation	N.Miyake, T.Kuwabara
143. Estimation of biaxial tensile deformation of aluminum alloy sheet using deep learning	K.Koenuma, A.Yamanaka, T.Kuwabara
144. Effects of thermal refining on the plastic anisotropy and forming limit curves in 7000 series aluminum	S.Akamatsu, H.Hosoi, K.Nagai, T.Kuwabara
145. Serration Behaviors in Tensile Deformation of Al-2.5mass%Mg Alloy	X.Lan, S.Gao, M.Park, A.Shibata, N.Tsuji
146. Effects of grain size on acoustic emission during tensile deformation in aluminum	D.Terada
147. Development of high-strength 7xxx aluminum alloy for next-generation aircrafts	Y.Kanno
148. Microstructure and high-temperature strength of a novel heat-resistant aluminum alloy designed based on thermodynamic assessments	N.Takata, M.Ishihara, S.Nakatsuka, A.Suzuki, M.Kobashi
149. Atomic structures of Mg symmetric tilt grain boundaries: ab initio local analysis	Z.Xu, M.Kohyama
150. Effect of electrolyte temperature on crystallinity and dielectric constants of barrier-type oxide film on high-purity aluminum	S.Enoki, Y.Shimizu, Y.Taguchi
151. Fabrication of SiGe layer on Si substrate by Screen-Printing of Al-Ge paste	M.Nakahara
152. Effect of particle dispersion on thermal property and thermal expansion of TiB ₂ particles/Al composites	G.Sasaki, S.Kodama, K.Sugio
153. Effects of trace elements on the mechanical properties of 1000 series aluminium foil	T.Hara, D.Egusa, M.Mihara, H.Tanaka, E.Abe
P01. Data assimilation for phase-field simulation of aluminum alloy solidification	K.Takahashi, A.Yamanaka
P02. Drawability of light metal corrugated cup	Y.Nishikubo, Y.Harada, I.Tanaka
P03. Effects of pre-straining and heat-treatment on strength in a long-period stacking ordered type Mg-Zn-Y directionally solidified alloy	T.Yamaguchi, M.Suzuki, K.Hagihara
P04. Effect of micro-alloying elements on precipitation behavior in a Mg-9Al-1Zn (mass%) alloy	Y.Sonoda, T.Nakata, S.Kamado
P05. Influence of cold-rolling on size dependence of strength of high purity aluminum single-crystal micropillar	S.Uesugi, N.Takata, A.Suzuki, M.Kobashi
P06. Search of appropriate conditions for the pore growth in lotus aluminum by computer simulation	K.Iitsuka, R.Yuchi, M.Endoh, Y.Sasajima, T.Ikeda
P07. Computer experiment of interface stability in the Si-solid-phase growth in Si-Al binary alloy	K.Iwata, R.Yuchi, M.Endoh, Y.Sasajima, J.Onuki
P08. Influence of probe shape on friction stir welding for aluminum plate deformed by ECAP	Y.Onizawa, K.Aoki, T.Utsunomiya, Y.Sekine
P09. Evaluation of grain size dependency of active slip systems from inhomogeneous strain analysis in pure-magnesium	M.Hirata, Y.Yamashita, H.Adachi
P10. Compression properties of functionally graded porous aluminum consisting of different pore structures	M.Ando, Y.Hangai, K.Amagai, R.Nagahiro, N.Yosikawa
P11. Effect of solidification structures on mechanical property of Al-Fe alloy cast wires produced by OCC process	N.Yasukawa, T.Sawaya, G.Motoyasu
P12. Jointing of porous aluminum by press forming during foaming of multiple precursor	M.Ohashi, Y.Hangai, K.Amagai, R.Nagahiro, T.Utsunomiya, N.Yosikawa
P13. Changes in thermo-physical properties of Al-Si alloys during heating	Y.Iwasaki, S.Sawada
P14. Strength of α -Al/T-Al ₆ Mg ₁₁ Zn ₁₁ two-phase eutectic alloy at elevated temperatures	M.Aikawa, N.Takata, A.Suzuki, M.Kobashi
P15. Effect of heat treatment on transient liquid phase diffusion bonded interface of cast aluminium alloys by using formate coated zinc sheet	Y.Shinohara, S.Koyama
P16. Evaluation of corrosion resistance for films formed on Mg-8Al-0Zn alloy by steam coating	Y.Nagashima, T.Miyashita, M.Inamura, T.Ishizaki, H.Muto

- P17. Corrosion resistance of film prepared on thermally treated Mg-6Al-1Zn-2Ca alloy by steam coating method M.Inamura, T.Miyashita, Y.Nagashima, T.Ishizaki
- P18. Serration behavior of Al-Mg-Si alloy and Al-Mg-Zn alloy T.Miike, S.Yamasaki, M.Mitsuhara, H.Nakashima, R.Akiyoshi, S.Kimura
- P19. Quantitative evaluation of mass transfer during mechanical stirring with gas injection in an aluminum melt bath W.Kato, T.Yamamoto, K.Komarov, M.Shigemitsu, Y.Ishiwata
- P20. Indentation microstructure and stress analysis of age-hardenable A7050 aluminum alloy R.Muramatsu, S.Muraishi, H.Harada, S.Kumai
- P21. Resistance to hydrogen embrittlement of sensitized 5083 aluminum alloy welds T.Ohbuchi, G.Itoh, A.Ghorani, T.Kiuchi
- P22. Relationship between crystal phases in composite hydroxides film formed on Al-Zn-Mg alloy by steam coating and corrosion resistance H.Muto, T.Miyashita, M.Inamura, T.Ishizaki
- P23. Hydro-processing with ozone for low-grade aluminum dross residue T.Yamashita, T.Hiraki, T.Suzumura, T.Miki, T.Nagasaka
- P24. Creation and characterization of sintered composite materials with metallic magnesium and titanium oxide M.Yoshioka, E.Yukutake
- P25. Change in microstructure during stress relaxation process of 2024 aluminum alloy subjected to continuous cyclic bending K.Miura, R.Komota, Y.Takayama, H.Watanabe
- P26. Relationship between nanostructures and mechanical properties of oxygen-reduced and sintered Ti-Fe-Zr-B alloy T.Washizu, T.Homma
- P27. Relationship between the surface crack and strain in some Mg-Al-Zn-Ca alloys deformed in humid air R.Sano, G.Itoh, S.kuramoto, J.Kobayashi, T.Ito, M.Noda
- P28. Evaluation of fatigue property of biomedical β -type titanium alloy using resonance-type fatigue test K.Nagamine, M.Nakai
- P29. Mechanical properties of Al-Cu alloys subjected to aging treatment in subcritical water T.Kitamura, K.Horikawa, H.Kobayashi
- P30. Resistance of hydrogen embrittlement of high-strength Al-Zn-Mg alloys by means of high-speed plastic deformation M.Itoh, K.Horikawa, H.Kobayashi
- P31. Behavior of hydrogen storage and generation in pure titanium by means of surface modification M.Hashimoto, K.Horikawa, H.Kobayashi
- P32. Surface layer analysis of friction-induced reaction of 5052 aluminum alloy and dissimilar metals T.Ogata, Y.Takayama, H.Watanabe
- P33. Microstructure observation of Ag added Mg-Zn alloy aged at 473K R.Kudo, T.Maeda, T.Tsuchiya, S.Lee, S.Ikeno, K.Matsuda
- P34. Automatic detection of β grain boundaries in $\alpha + \beta$ type titanium alloy using image recognition technology S.Nakagawa, M.Nakai
- P35. Microstructure and interfacial strength of Ti/Mg sintered bonding material for biomaterials H.Onozuka, I.Sato, M.Inoue, N.Aoyagi
- P36. Electrodeposition of metals from dimethyl sulfone bath containing various light metal chlorides K.Kamebuchi, S.Kim, K.Kuroda, M.Okido
- P37. Electrodeposition from propylene carbonate bath containing light metal chloride M.Nakagaki, S.Kumeno, J.Kang, K.Kuroda, M.Okido
- P38. Microstructure and mechanical properties of Mg-Zn-Gd rolled alloy sheet containing various amounts of Long-Period Stacking Ordered Structure phase A.Uchiyama, D.Ando, Y.Sutou, J.Koike
- P39. Analysis of local dynamic behavior of β -type titanium alloy with different phase stability T.Kimura, S.Kuramoto, E.Nakagawa, T.Ohmura
- P40. Effect of sensitization treatment on hydrogen embrittlement of 5083 aluminum alloy T.Kiuchi, A.Ghorani, T.Obuch, G.Itoh
- P41. Immersion tests study on corrosion resistance of hydroxide film on Al-Mg-Si alloy in acid and alkaline solutions K.Kanasugi, A.Serizawa
- P42. Evaporation rate of zinc in molten aluminum under reduced pressure H.Numata, Y.Yamazaki, T.Hiraki, T.Suzumura, T.Miki, T.Nagasaka
- P43. Semi solid forging and mechanical properties of magnesium alloy D.Uematsu, K.Tsunoda, R.Omi, G.Horikiri, R.Nakanishi, T.Tanaka, H.Harada, S.Nishida
- P44. Twin roll casting of high Mg contained aluminum alloy M.Hagiwara, Y.Horigome, H.Harada, T.Haga, S.Nishida

- P45. Microstructure observation of extruded Al-Mg-Si alloy with different homogenization treatment T.Takara, T.Tsuchiya, S.Lee, K.Matsuda, K.Ikeda, T.Homma, S.Ikeno
- P46. Grain size dependence of mechanical properties in friction-stir-processed Mg-3%Al-1%Zn alloy N.Ozawa, S.Kuramoto, E.Yukutale
- P47. Influence of manganese on deformation behavior of magnesium under dynamic loading R.Goeda, M.Yamaguchi, T.Nakatsuji, N.Ikeo, T.Mukai
- P48. Effects of Oxide Layer Removal for Aluminum Alloy Sheet on Joint Strength of Fe-Al Resistance Spot-welded Joints K.Akizuki, Y.Taguchi, M.Iyota
- P49. Fabrication and microstructure observation of cBN/Al composite T.Nogami, Y.Ota, T.Tsuchiya, S.Lee, S.Ikeno, K.Matsuda
- P50. Casting of AC7A aluminum alloy strip by an unequal twin roll caster H.Sakata, T.Haga
- P51. Die-casting of AC7A aluminum alloy S.Imamura, H.Fuse, T.Haga
- P52. Strip casting of AC7A alloy using unequal diameter twin roll caster equipped with scraper K.Oida, T.Haga
- P53. Dissimilar friction stir welding of titanium and CFRP JeongWon Choi, H.Liu, K.Ushioda, H.Fujii, K.Nagatsuka, K.Nakata
- P54. Effect of Fe on the resistance to humid gas stress corrosion cracking in some 6000 series aluminum alloys H.Mokka, G.Itoh, A.Kurumada, R.Akishino, S.Kuramoto, J.Kobayashi
- P55. Effect of ignition source on Combustion of magnesium pieces M.Yashima
- PE01. Fabrication of porous metal dispersed with antibacterial silver zeolite by spark plasma sintering R.Shibatani, T.Ito
- PE02. Preparation of a silane/Mg(OH)₂ corrosion resistant composite film on flame-resistant Mg-4Al-1Ca Alloy by steam coating and spin coating using two kinds of silane molecules T.Miyashita, M.Inamura, Y.Nagashima, T.ishizaki
- PE03. Suppression of environmental hydrogen embrittlement by severe cold rolling in Al-Zn-Mg-Cu-Cr alloy with high amount of zinc M.Safyari, J.Kobayashi, S.Kuramoto, G.Itoh