一般社団法人 軽金属学会 第121回秋期大会プログラム

会 期:2011年11月12日(土)~13日(日)

大会会場:早稲田大学 西早稲田キャンパス(東京都新宿区大久保3-4-1) 懇親会会場:早稲田大学 西早稲田キャンパス内 63号館1階 レストラン馬車道

> 講演会場での発表者の許可を 得ない撮影はご遠慮下さい。

講演セッション・行事一覧

第1日目:2011年11月12日(土)

会場	第	51会場	第	52会場	第	第3会場	第	94会場	角	95会場	j	第6会場	
時間	52-	号館101	52-	号館102	52	号館103	52	号館201	52	号館203	52	2号館302	
	組織	織制御1	組	織制御6	力*	学特性 1		萬食& 面改質1		および塑性 【プロセス1		チタン1	
9:00~10:40										V 10		la de alta d	
	座長	酒井 孝	座長	古井光明	座長	箕田 正	座長	兒島洋一	座長	兼子 毅	座長	成島尚之	
10.40 10.50	講領	1 ~ 5	講領	23 ~ 27	講領	47 ~ 51	講演	73 ~ 77 休憩	講演	96 ~ 100	講演	121 ~ 125	
10:40~10:50	幺日≤	織制御2	公日 2	織制御7	つガ	ネシウム1			亦形	および塑性	l	チタン2	
	沙 丘)	附加加州	沙丘	似巾小小小	* >	ホンリムI		南及区 面改質2		プロセス2		1772	
10:50~12:30								ш - у () (=	741				
	座長	樫原恵蔵	座長	廣澤渉一	座長	増田哲也	座長	阿相英孝	座長	千野靖正	座長	小林郁夫	
	講演	6 ~ 10	講演	28 ~ 32		52 ~ 56	講演	78 ~ 82		$101 \sim 105$	P14 12 1	$126 \sim 130$	
12:30~13:30										室 12:00~1			
13:30~15:00				ポスター	セッショ	ョン / 企業	 終紹介	セッション	(55号)	館 N棟 1階	计会	議室)	
15:00~15:10								休憩					
15:10~16:10						表彰	式 (57	7号館 2階2	201教室	室)			
16:10~16:20								休憩					
16:20~17:00		小山田記念賞受賞記念講演 (57号館 2階201教室)											
17:00~17:10	休憩												
17:10~18:00	市民フォーラム「グリーンエネルギーを取り巻く状況とその有効利用へ向けた蓄電池開発」 早稲田大学先進理工学部 教授 逢坂哲彌 先生 (57号館 2階201教室)												
18:00~18:20								休憩,移動					
18:20~20:30				倉	立60	周年記念初	2賀会,	懇親会 (63号館	1階 馬車	道)		

第2日目:2011年11月13日(日)

会場	第1会場	第2会場	第3会場	第4会場	第5会場	第6会場	62号館
時間	52号館101	52号館102	52号館103	52号館201	52号館203	52号館302	1階大会議室
0.00 10.00	組織制御3	形状付与加工1	マグネシウム2	溶解·凝固· 鋳造1	変形および塑性 加工プロセス3	複合材料· 発泡材料1	8:55~16:30 第88回
9:00~10:20	座長 池田賢一	座長 熊谷正樹	座長 山口恵太郎	座長 久幸晃二	座長 高木秀有	座長 鈴木良祐	シンポジウム
	建设 福田員 講演 11 ~ 14	講演 33 ~ 36	講演 57 ~ 60	講演 83 ~ 86	講演 106 ~ 109	講演 131 ~ 134	集合組織
10:20~10:30	時 級 11 11	時 級 33 30		木憩	時 級 100 103	時 級 101 101	研究部会
	組織制御4	形状付与加工2		溶解·凝固· 鋳造2	力学特性2	複合材料· 発泡材料2	成果報告 「集合組織の
10:30~11:50	座長 芹澤 愛	座長 新倉昭男	座長 大石敬一郎	座長 西田進一	座長 土田孝之	座長 井手拓哉	制御とその形成機構」
	講演 15 ~ 18	講演 37 ~ 40	講演 61 ~ 64	講演 87 ~ 90	講演 110 ~ 113	講演 135 ~ 138	
11:50~13:00	Am Alda et al Maria		食 / 若手の会(55号			I det Lock A .	
13:00~14:20	組織制御5	形状付与加工3	マグネシウム4	溶解·凝固· 鋳造3	テーマセッション 摩擦攪拌接合 (FSW)と組織制御	粉末冶金1	
	座長 会田哲夫	座長 伊藤吾朗	座長 三浦博己	座長 岡田 浩	座長 平田智丈	座長 久保田正広	
	講演 19 ~ 22	講演 41 ~ 44	講演 65 ~ 68	講演 91 ~ 95	講演 114 ~ 117	講演 139 ~ 142	
14:20~14:30			1	木憩			
14:30~15:50		形状付与加工4	マグネシウム5		テーマセッション 摩擦攪拌接合 (FSW)と組織制御	粉末冶金2	
		座長 久富裕二	座長 宮下幸雄		座長 柴柳敏哉	座長 久米裕二	
		講演 45 ~ 46	講演 69 ~ 72		講演 118 ~ 120	講演 143 ~ 145	

- ・機器・カタログ展示(11月12日, 13日) 55号館1階アトリウム
- •軽金属学会託児室設置試行(11月12日, 13日)

第1日目 2011年11月12日(土)

		カ・ロロ 2011年11	77 12 12 (12)	
	第1会場(52号館101)	第2会場(52号館102)	第3会場(52号館103)	第4会場(52号館201)
	組織制御1 酒井 孝(成蹊大)	組織制御6 古井光明(富山大)	力学特性 1 箕田 正(住友軽金属)	腐食&表面改質1 兒島洋一(古河スカイ)
	1繰り返し重ね接合圧延(ARB)法により強加工 された純アルミニウム単結晶の微視組織/ 和歌山高専 ○樫原恵蔵, (学)辻本義孝,京 都大 寺田大将, 辻 伸泰	23 Al-Zn-Mg合金の時効硬化特性に対する添加 元素の影響/ 富山大 (院)渡邊克己, 川畑常 眞, 北陸能開大 池野 進, アイシン軽金属 吉 田朋夫, 村上 哲, 富山大 〇松田健二		73 電解水素チャージ中のアルミニウムの腐食挙動/ 茨城大 伊藤吾朗, ○(院)堤 友浩, 伊藤伸英
9:00~	2 平面ひずみ圧縮変形下でのアルミニウム単結晶の結晶方位回転挙動/住友軽金属○山本裕介,浅野峰生,吉田英雄	24 Al-Zn-Mg系合金押出材の表面再結晶抑制効果に及ぼす遷移元素複合添加の影響/神戸製鋼宮田幸昌,○吉原伸二	48 2024アルミニウム合金の延性破壊に及ぼす内 在水素量の影響/ 豊橋技科大 ○(院)稲森隆 晃, 戸田裕之, 大阪大 堀川敬太郎, 豊橋技 科大 小林正和, JASRI 鈴木芳生, 上杉健太 郎, 竹内晃久	74表面処理による着霜挙動への影響調査/ 神戸製鋼 太田陽介, 館山慶太, ○豊田祐介
10:40	3 Al-Fe合金の組織微細化と引張特性に及ぼす 圧縮ねじり加工条件の影響/ 名古屋大 ○ 久米裕二,(院)大田真一郎, 小橋 眞, 金 武直幸	25 高圧すべり巨大ひずみ加工プロセスの7075アルミニウム合金への適用と微細組織形成/ 九州大 ○(院)田添聖誠, 堀田善治	49き裂先端近傍の変形局在化の4D解析/ 豊 橋技科大 酒井一憲,○戸田裕之,坂口 祐二,小林正和,JASRI鈴木芳生,竹内 晃久,上杉健太朗	75プレコート材の放熱特性及び一般特性に及ぼす塗膜中の白色微粒子の影響/ 古河スカイ 〇小澤武廣, 前園利樹
	4 A1050アルミニウム板材の再結晶挙動に及ぼ すひずみ経路の影響/大阪大(院)島村朋 子,○(院)井本匡俊,左海哲夫,宇都宮裕	26 Mg ₂ Ge濃度の異なるAl-Mg-Ge合金における 時効組織のTEM観察/ 富山大 ○(院)村上 友忠, (院)永井健史, 川畑常眞, 北陸能 開大 池野 進, 富山大 松田健二	50 アルミニウム合金におけるき裂先端近傍の水 素の挙動/茨城大 伊藤吾朗, ○(院)岩橋 秀樹, (院)渡壁尚仁, 伊藤伸英	76 アルミニウムアノード酸化皮膜の耐食性に及ぼ す水酸化リチウム封孔の効果/ 工学院大 ○ 阿相英孝, (院)大倉雅弘, スズキ 田中洋臣, 藤田昌弘, 村松 仁, 工学院大 小野幸子
	5 FRSP/焼きなましされた高純度チタン板材表面層のせん断集合組織解析/ 宇都宮大 ○ (院)中真昇平, (院)扇谷佳大, 高山善匡,渡部英男	一, カルソニック 倉沢元樹, 金沢大 渡邊 千尋, 門前亮一	材の疲労特性/ ヤマハ発動機 ○鈴木貴 晴, 橘内 透	77 加工熱処理で強化したA7075合金へのTiN膜の形成とその機械的性質/ 関西大 ○(学) 井手上司, (院)西迫 駿, 杉本隆史
		11.10	40~10:50)	
	第1会場(52号館101)	第2会場(52号館102)	第3会場(52号館103)	<u>第4会場(52号館201)</u>
	組織制御2	組織制御7	マグネシウム1	腐食&表面改質2

		1个思(10:4	$10 \sim 10:50$)	
	第1会場(52号館101)	第2会場(52号館102)	第3会場(52号館103)	第4会場(52号館201)
	組織制御2 樫原恵蔵(和歌山高専)	組織制御7 廣澤渉一(横浜国立大)	マグネシウム1 増田哲也(神戸製鋼)	腐食&表面改質2 阿相英孝(工学院大)
	6 Al-Mg-Si合金の熱間圧延中の再結晶挙動/ 古河スカイ ○安田晋也, 一谷幸司, 日比 野旭	28 Characteristic microstructural features and enhanced mechanical properties in bulk and powder-consolidated Al-Fe alloys after processing by High-Pressure Torsion/Kyushu University OJ.Cubero, Z.Horita	52 砂型鋳造したMg-3~9%AI系合金の時効硬化 挙動/ 富山大 ○(院)江端祐平, 古井光 明, 寺山清志, 北陸能開大 池野 進, アーレスティ 榊原勝弥, 才川清二	78 Al-Mn系合金の孔食に及ぼすCu添加と熱処 理の影響/ 住友軽金属 ○小山高弘, 藤 村涼子, 小路知浩
10:50~	7 Al-Mg-Si系合金における再結晶組織形成機 構/兵庫県大 ○山本厚之	29 Al-Fe系合金のn値に及ぼす均質化処理条件 の影響/ 住友軽金属 ○浅野峰生, 吉田 英雄	53 金型鋳造したMg-10~13%AI系合金の組織と 時効硬化挙動/ 富山大 ○(院)南 和希, 古井光明, 寺山清志, 北陸能開大 池野 進, アーレスティ 才川清二, 榊原勝弥	79 高温弱アルカリ環境中におけるアルミニウムの 腐食挙動に及ぼすFe, Ni添加の影響/ 古河 スカイ ○八重樫起郭, 本川幸翁, 兒島洋 一
12:30	8 Al-Mn合金冷延板の再結晶挙動に及ぼす粗 大な第二相粒子の影響/住友軽金属 ○小 川和代, 岩村信吾	30 1200合金の延性に及ぼす熱処理条件の影響 / 住友軽金属 ○中村拓郎, 吉田英雄, 浅野峰生	54 砂型鋳造したMg-10~13%AI系合金の組織と 時効硬化挙動/ 富山大 ○(院)吉田明弘, 古井光明, 寺山清志, 北陸能開大 池野 進. アーレスティ 才川清二	80 各種カチオンを含む模擬水道水中に浸漬した A3003の表面分析/ 北海道北 ○坂入正 敏, 大谷恭平
	9 Al-Mn合金の加工硬化挙動におよぼす粗大な 第二相粒子の影響/住友軽金属 ○岩村信 吾, 小川和代	31 バルクアルミ合金の水素発生/ 東北大 ○ 大森俊洋, 高久佳和, 大沼郁雄, 石田清 仁	55 AM系マグネシウム合金の時効硬化に及ぼす Mn量の影響/ 富山大 ○(院)土屋大樹, (院)渡辺克己, 川畑常眞, 北陸能開大 池 野 進, 富山大 松田健二, アーレスティ 才川清二	81 超高純度アルミニウムの異なる濃度のHCl水溶液における腐食挙動の結晶方位依存性/宇都宮大 〇(院)佐藤政行, 高山善匡, 渡部英男
	10 アルミニウム合金板の集合組織に及ぼすレー ザ切断条件の影響/成蹊大 ○(院)菊田進 作, 酒井 孝, アマダ 小俣 均, 小山純	32 熱フェノール分解固溶量測定法における金属 間化合物の影響/古河スカイ ○清水ゆかり, 兒島洋一, 古河電工 久留須一彦	56 直接焼入れした2元系Mg-Zn合金の時効初期 生成物のTEM観察/ 富山大(院)○中西亮 介,富山大 川畑常眞,北陸能開大 池野 進,富山大 松田健二	82 鋳造用アルミニウム-マグネシウム-亜鉛系合金の電解研磨/ 岡山工技セ ○村上浩二, 日野 実, サーテック永田 永田教人, 岡山理科大 金谷輝人
			座, 鱼山八 仏山陸— 日始 Nは 17世界の入業庁 10.00 15.00	生竹八 亚旬牌八

第1日目 2011年11月12日(土)

		第10日 2011年11	<u> </u>
	第5会場(52号館203)	第6会場(52号館302)	
	変形および塑性加エプロセス1	チタン1	
	兼子 毅(東北大)	成島尚之(東北大)	
	96 A1050アルミニウムの冷間圧延における摩耗	121 Ti-Cr-V-4Al合金の等温時効挙動と機械的性	
	粉発生挙動に及ぼす油性剤種の影響/ 住	質/ 関西大 ○(院)高崎悠司, 上田正人,	
	友軽金属 ○戸谷友貴, 上田 薫, 米光	池田勝彦	
	誠,細見和弘	100 Sh. /Eks + La // /HIII 00 11 10 II	
	97 RBT回転曲げ引張複合負荷によるAl1070の組織制御 (引義士 (陰)悪せせ (の)が原す		
	織制御/ 弘前大(院)西村太一,○(院)榎本 祐二,佐藤裕之	4.6Zr合金の力学的特性/ 東北大 ○仲井 正昭, 新家光雄, 稗田純子, (院)成田健	
	74一, 住旅行之	吾, 昭和医科工業 織部一弥	
9:00~	98 回転引き曲げ加工におけるAl合金非対称チャ		
10:40	ンネル材の異なる断面形状による変形挙動/	型Ti-29Nb-13Ta-4.6Zr合金のミクロ組織と力	
	山梨大 ○(院)奥出裕亮,都立科技大 坂木		
	修次, 山梨大 吉原正一郎	ン,新家光雄 仲井正昭,稗田純子,豊	
		橋技科大 戸高義一	
		124 表層に微細結晶粒を有するTi合金の回転曲	
	欠 加量の影響/ 住友軽金属 ○中西英貴, 講 吉田英雄, 八太秀周	げ疲労特性/ 大分高専 ○渡部杏伍, 薬師寺輝敏, 豊橋技科大 戸高義一	
	讲 百田夹雄, 八瓜芳川	即寸牌數, 豆惝仅符入 尸向我—	
	100 マグネシウム合金AZ31のボス成形シミュレー	125 チタン合金予ひずみ材の回転曲げ疲労特性	
	ション/ 日本大 〇(院)小林由和, 高橋 進, 茨城工技セ 行武栄太郎, 山野井精機	/ 大分高専 ○佐藤一樹, 薬師寺輝敏, 神戸製鋼 大山英人, 逸見義男	
	度, 次城上议 。 行政未及即, 田野开植楼 根岸繁夫	作厂衣啊 八四光八, 匹允我力	
	169/1-2023	休憩(10:40~10:50)	
		たの人担 /50日 約000	

		/下述(10.40 - 10.00)	
	第5会場(52号館203)	第6会場(52号館302)	
	変形および塑性加工プロセス2	チタン2	
	千野靖正(産総研)	小林郁夫(東京工業大)	
	101 車載用バッテリーケースのインパクト加工にお	126 β型Ti合金の設計と形状記憶特性/ 広島大	
	ける不良発生メカニズムとその改善に関する研究	· - · · · · · · · · · · · · · · · · · ·	
	完/ 早稲田大 ○(院)渡辺 翼, 本村 貢, 日本圧延工業 萩原明夫, 小西玄太	崇宏, 崔 龍範, 佐々木元	
	102 5000系合金の高速ブロー成形性に及ぼす結	127 Ti不働態皮膜の耐孔食性と結合水濃度に及	
	晶粒径の影響∕ 古河スカイ ○工藤智行	ぼす皮膜形成電位の影響/ 関西大 ○(院)	
		伊東 傑, 春名 匠	
10.50	103 押出過程初期で形成された溝列押出工具の	128 Ti表面へのZrO。含有酸化物膜の水熱合成に	
10:50~ 12:30	清断面形状がアルミニウム製品表面粗さに及	及ぼすクエン酸添加の影響/ 関西大 〇	
12:30	ぼす影響/ 鹿児島大 上谷俊平, ○(院)本	(院)小桜龍一、上田正人、池田勝彦	
	田裕一	(100) 1 (3) 10 (4	
	104 高圧水素容器アルミニウムカップのラディアル	129 MOCVD法によるTi-29Nb-13Ta-4.6Zr表面へ	
	フロー押出しの成形性向上と潤滑特性/ 早	のハイドロキシアパタイト膜の合成と生体適合	
	稲田大 ○(院)岩崎有佑, (学)相田健吾, 本村 貢, サムテック 原田 敦	性評価/ 東北大 〇稗田純子, 新家光雄, 仲井正昭, 斉藤壱実, 後藤 孝, 途 溶	
	1 10 21,	,,,,	
	105 ダイカストアルミニウム合金におけるブリスター	$130~{ m H_2O}$ 濃度を制御した ${ m Ca}^{2+}/$ エタノール溶液中で	
	とミクロポアの変形挙動イメージベース数値解 析/ 豊橋技科大 ○PengchengQu, 戸田	Tiに印加したカソード電位がCa皮膜形成に与	
	裕之,(院)伊藤真也, 小林正和, JASRI	える影響/ 関西大 〇(院)野中厚志, 春名	
	上杉健太朗	匠	

第2日目 2011年11月13日(日)

		第2日日 2011年11		
	第1会場 (52号館101)	第2会場 (52号館102)	第3会場 (52号館103)	第4会場 (52号館201)
	組織制御3 池田賢一(九州大)	形状付与加工1 熊谷正樹(住友軽金属)	マグネシウム2 山口恵太郎(三菱アルミ)	溶解·凝固·鋳造1 久幸晃二(昭和電工)
	11 AI-Mg-Si合金の多段時効挙動に及ぼす合金 成分および予備時効条件の影響 / 東京工 大 (院)高木康夫, 神戸製鋼 増田哲也, 東京工大 里 達雄	33 アルミニウム板の高速衝突時のメタルジェット 放出および界面形態に及ぼす衝突条件の影響/東京工大 (院)柿崎正悟,(院)澤 裕也,熊井真次	57 XPS深さ分析によるマグネシウム合金の酸化皮膜の厚さ測定方法 / 三菱アルミ 宇宿洋二, 持田美緒, 鳥居麗子	83 溶融金属処理用の大型セラミック超音波ホーンの性能特性 / 日本軽金属 コマロフセルゲイ, 石渡保生
9:00 ~ 10:20	12 計算機シミュレーションおよび3DAP法による AI-Mg-Si系合金のナノクラスタ形成挙動の解析/東京工大 (院)笹田陽一,大阪大 芹澤 愛,東京工大 手塚裕康,小林郁夫,里 達雄	34 高速固相接合したアルミニウム合金スタッドと めっき鋼板の接合強度と接合界面組織/東京工大 (院)石塚耕三,熊井真次	58 マグネシウム合金上へのモリブデン系皮膜の作製と耐食性評価/ 産総研 石崎貴裕, 坂本 満	84 AI-4%Si合金の結晶粒微細化に及ぼす超音波 照射条件の影響/ 古河スカイ 久保貴司, 松居 悠, 早稲田大 吉田 誠, (院)宇野 光, (学)松田和樹
	13 T6熱処理を施したAI-Si-Mg合金の時効挙動 / 富山大 (院)森岡竜一, 古井光明, 寺山清志, 川畑常眞, 松田健二, 北陸能 開大 池野 進, アーレスティ オ川清二	35 高速固相接合した2024合金スタッド/6N01合金板の接合界面組織と機械的性質に及ぼす板厚の影響/東京工大(院)高谷謙斗,熊井真次	59 Cu,Zn含有Mg-AI系合金の耐食性におよぼす AI量の影響/豊田中央研究所 川畑博之, 西野直久, トヨタ自動車 弦間喜和, 瀬口 剛	合物の凝固核 / 日本軽金属 織田和宏, 磯部智洋 , 岡田 浩
	14 T5熱処理したAI-10%Si-X%Mg鋳造合金の時 効硬化挙動および析出組織/ 富山大 (院)北村智之, 川畑常眞, 古井光明, 松 田健二, 寺山清志, 北陸能開大 池野 進, アーレスティ オ川清二	36 マグネシウム合金製ボルトの締付け特性とその 有効性 / 長岡技科大 (院)倉掛 優,久留 米高専 橋村真治, 長岡技科大 宮下幸雄, 丸エム製作所 山中 茂	ル法を用いた耐食性の同時付与 / 東京工大 原田陽平, 熊井真次	86 異質核添加によるAI-Fe-Si系化合物の微細化 / 日本軽金属 磯部智洋, 織田和宏, 岡田 浩
			20 ~ 10:30)	
	第1会場 (52号館101)	第2会場 (52号館102)	第3会場 (52号館103)	第4会場 (52号館201)
	組織制御4 芹澤 愛(大阪大)	形状付与加工2 新倉昭男(古河スカイ)	マグネシウム3 大石敬一郎(長岡技科大)	溶解·凝固·鋳造2 西田進一(群馬大)
	15 AI-Mg-Si系合金の引張変形特性に及ぼす析 出形態の影響 / 九州大 (院)秋吉竜太郎,池田賢一,光原昌寿,波多聰,中 島英治,金子賢治,菊池正夫,新日鐵高田健,佐賀誠,潮田浩作	37 ノコロックフラックス/ノコロックZnフラックス混合物の酸化挙動/ 住友軽金属 熊谷英敏, 久富裕二	61 計装化押込み試験法によるLPSO型マグネシウム合金の高温クリープ特性評価 / 日本大(院)竹田大介,高木秀有,藤原雅美,九州大 東田賢二,熊本大河村能人	87 AI-Zn-Mg合金の半溶融組織に対するひずみ 導入および0.5mass%Fe添加の影響/ 東京工 大 (院)大谷暁史, 手塚裕康, 小林郁 夫, 里 達雄
10:30 ~ 11:50	16 T6熱処理したAI-10%Si-0.3%Mg合金の時効挙動に及ぼすMn添加の影響/ 富山大 (院)富田真吾,川畑常眞,古井光明,松田健二,寺山清志,北陸能開大池野進,アーレスティオ川清二	38 大気圧下における面接合部のろう付性に及ぼ すろう材Mg添加量の影響 / 三菱アルミ 三宅秀幸, 江戸正和	62 長周期積層構造型Mg-Ni-Y合金の定速圧縮 変形挙動と転位下部組織/ 富山県立大 鈴木真由美, (院)嶌谷温嗣, 東北大 丸山 公一, 千葉大 糸井貴臣	88 ガス分析を用いたアルミニウム鋳物製品の内部欠陥評価/ 道総研工業試験場 板橋孝至, 髙橋英徳
	17 Effect of Mn and Fe content on age-hardening behavior of AI-Mg ₂ Si alloy / 富山大 王 樹美, (院)S.Chen, 川畑常眞, 山崎登志 成, 北陸能開大 池野 進, 三協マテリアル 高木英俊, 川北浩二, 富山大 松田健二		Ca添加量の最適化 / 長岡技科大 本間 智之 , (院)吉増龍一 , 鎌土重晴	89 7075アルミニウム合金の機械的特性への結晶 粒微細化の効果 / 千葉工大 (院)北野泰 弘 , 野田雅史 , 船見国男
	18 Ag/Cuを含むAl-Mg-Si合金の2段時効挙動/ 富山大 (学)大江喜久, (院)徳田桃子, (院)永井健史, 川畑常眞, 北陸能開大 池 野 進, 富山大 松田健二	40 アルカリ処理を用いたAIとCuの固相接合強度 に及ぼす接合圧力の影響 / 群馬大 (院) 秦 紘一, 小山真司, 荘司郁夫	64 冷間多軸鍛造AZ61Mg合金の組織と機械的性質 / 電通大 三浦博己, (院)丸岡利晃	90 溶体化処理時の昇温速度がAC4CH合金鋳物の共晶Si粒子の形態変化に及ぼす影響/ 山梨大 (院)猿渡直洋, 中山栄浩, YS電子工業 関谷英治

昼食 / 若手の会(55号館 N棟 1階第2会議室)(11:50~13:00)

第2日目 2011年11月13日(日)

	第5会場(52号館203)	第6会場(52号館302)	62号館(1階大会議室)
	変形および塑性加工プロセス3 高木秀有(日本大)	複合材料・発泡材料1 鈴木良祐(群馬大)	第88回シンポジウム 集合組織研究部会成果報告 「集合組織の制御とその形成機構」
	106 アルミニウム合金の高温変形における損傷挙動/ 豊橋技科大 ZUL AZRI BIN SHAMSUDIN, ○戸田裕之, 小林正和, 鈴木芳生, 竹内晃久, 上杉健太朗	の作製とその圧縮特性/ 群馬大 ○(学)齋	8:55 ※シンポジウム参加には別途申込が必要※ 開会挨拶9:009:00 X線回折とEBSDによる部会標準試料の集合組 織測定結果
9:00~ 10:20	107 様々な熱処理を施したAI-Si系ダイカスト合金 の圧縮リラクセーション特性とその特性発現機 構/ 横浜国大 ○(院)川窪裕己, 廣澤渉 ー, サンデン 平渡末二, 細井秀紀	132 摩擦技術を用いたポーラスアルミニウムコア中空部材の作製/ 群馬大 ○(学)齋藤雅樹, 半谷禎彦	9:40 大阪府立大学 井上博史
	108 様々な結晶粒径をもつ高純度Al-Mn二元合金のクリープ強度と変形機構/ 横浜国大 ○ (院)酒井昭典, 廣澤渉一, 古河スカイ 安藤 誠, 新倉昭男, 鈴木義和	133 FSP法による発泡剤不使用のポーラスAlの作製およびその機械的性質の評価/ 群馬大○(学)鎌田裕仁, 半谷禎彦, 芝浦工大 宇都宮登雄, 福井大 桑水流理, 東京大 吉川暢宏	~ 大阪府立産業技術総合研究所 田中 努
	109 超微細粒と粗大粒アルミニウムの低温領域に おけるクリープの粒径依存性/ 法政大 ○ (院)石渡 薫, 東北大金研 松永哲也, 東京大 (院)寺澤史紘, 法政大 新井和吉, 宇宙研 川合伸明, 佐藤英一	134 内部ガスを利用したADC12発泡剤不使用傾 斜機能ポーラスAIの作製/ 群馬大 ○(院)加 藤弘規, (院)高橋和也, 群馬大 半谷禎 彦, 芝浦工大 宇都宮登雄, グンダイ 北 原総一郎, 福井大 桑水流理, 東京大 吉	

		1个思(10:20~10:30)	
	第5会場(52号館203)	第6会場(52号館302)	62号館(1階大会議室)
	力学特性2	複合材料・発泡材料2	第88回シンポジウム 集合組織研究部会成果報告
	土田孝之(日本軽金属)	井手拓哉(大阪大)	「集合組織の制御とその形成機構」
	110 1000系アルミニウム合金板の成形性に及ぼす		10:30 アルミニウム合金板の絞り成形時の耳形成に
	調質および合金元素の影響/ 神戸製鋼 ○	製∕ 群馬大 ○鈴木良祐, 首都大 北薗幸	
	金田大輔,梅田秀俊	_	11:10 住友軽金属工業㈱ 田中宏樹
	111 Al-Mg-Si合金の曲げ加工性に及ぼす予備時	136 摩擦現象を利用した外部熱源不要オープンセ	
10.00	効条件の影響/ 神戸製鋼○中村貴彦, 増	ル型ポーラスアルミニウムの作製/ 群馬大	
10:30~	田哲也, 高木康夫	○(院)吉田浩亮, 半谷禎彦	
11:50			
	112 Al-Zn-Mg-Cu合金の機械的性質に及ぼす押	137 MgおよびBiを添加して作製した発泡アルミニ	11:10 摩擦攪拌接合における塑性流動と集合組織
	出形状の影響/住友軽金属 ○新里喜文,	ウムの気孔形態とセル壁のミクロ組織/ 早稲	
	箕田 正, 吉田英雄	田大 ○(院)野中由寛, 鈴木進補, (学)鈴	11:50
		木浩嗣, 中江秀雄	
	113 急冷凝固Al-Zn-Mg系アルミニウム合金の時効	138 アルミニウム板を重ねたプリカーサの発泡同時	
	硬化特性に及ぼす高速衝撃圧縮の影響/	接合/ 名古屋大 〇(院)岡野木綿子, 久米	
	大阪大 〇堀川敬太郎, 小林秀敏	裕二, 小橋 眞, 金武直幸	

昼食 / 若手の会(55号館 N棟 1階第2会議室)(11:50~13:00)

		第2日目 2011年11	月13日(日)	
	第1会場(52号館101)	第2会場(52号館102)	第3会場(52号館103)	第4会場(52号館201)
	組織制御5 会田哲夫(富山大)	形状付与加工3 伊藤吾朗(茨城大)	マグネシウム4 三浦博己(電気通信大)	溶解·凝固·鋳造3 岡田 浩(日本軽金属)
	19 Al-Mg-Si系合金の時効硬化挙動に及ぼす溶体化処理温度の影響/ 住友軽金属 ○布川啓太, 山本裕介, 内田秀俊	41 レーザ圧接法によるアルミニウムと高張力鋼板 およびチタンの接合/ 阿南工業高専 ○西 本浩司	65 AZ系マグネシウム合金のミクロ組織に対する Zn量の影響/富山大 ○(院)生川雄一, (院) 渡辺克己, 川畑常眞, 北陸能開大 池野 進, 富山大 松田健二, アーレスティ 才川 清二	91 ロールキャスターによるクラッド材の作製/ 早稲田大 本村 貢, 大阪工大 ○羽賀俊雄, 東京工大 (院)中村亮司,大阪工大 (院)柘植浩志,東京工大 熊井真次, 早稲田大 鈴木進補, 群馬大 渡利久規
13:00~ 14:20	20 Al-Mg系合金のセレーション挙動に及ぼすZn 添加量と時効条件の影響/ 神戸製鋼 ○有 賀康博, 松本克史, コベルコ科研 常石英 雅	42 アルミと鋼のMIG溶接に関する研究/ 住友 軽金属 ○福田敏彦, 熊谷正樹	66 AZ61マグネシウム連続鋳造圧延合金板の組織形態が機械的性質に及ぼす影響/マツダ〇木村貴広,小田信行,広島大(院)洪水雅俊,佐々木元	92 Al-SiCp合金薄板の双ロールキャスティング/ 大阪工大 ○羽賀俊雄, (院)山崎雄允, 東京工大 熊井真次, 群馬大 渡利久規
	21 523K時効したAl-Mg-Si合金の時効析出物に 及ぼすCu, Ag添加の影響/ 富山大 ○(院) 徳田桃子, (院)永井健史, 川畑常眞, 東 北大 中村純也, 北陸能開大 池野 進, 富山大 松田健二	43 擬似等方性積層CFRP-Metal単純重ね合せ接 着継手の三次元有限要素応力解析/ 東京 高専 ○志村 穣, (専)小坂典嵩, 黒崎 茂, 産技高専荒川 鈴木拓雄	67 Mg-Al-Ca-Mn合金圧延材のミクロ組織と機械 的性質/長岡技科大 ○(院)上野顕路, 徐 世偉, 本間智之, 鎌土重晴	93 マグネシウム合金の双ロールキャスティングの 伝熱凝固解析/ 群馬大 ○(院)南雲隆幸, (院)遠藤正樹, 西田進一, 渡利久規
	22 Al-Si-Mg系鋳造合金のT5熱処理挙動に及ぼ すMnの影響/ 早稲田大 ○(院)大竹哲生, (院)井上達也, スズキ 黒田明浩, 早稲田 大 神戸洋史, 吉田 誠	44 Al合金被覆によるMg合金複合材の接合強度 欠と加工性評価/ 千葉工大 ○(院)齋藤寛享, 構 野田雅史, 船見国男	68 熱間圧延加工に伴うMg-Al-Ca-Mn合金の動的なミクロ組織変化/長岡技科大 ○徐 世偉, 大石敬一郎, 鎌土重晴, 本間智之	94 離型温度の異なるAl-10%Si-Mg合金砂型鋳造 材の時効硬化挙動/ 富山大(院)加野洋 平, 古井光明, 寺山清志, 北陸能開大 池野 進, アーレスティ ○才川清二
		休憩(14:20~14:30)		95種々の温度で離型したAl-10%Si-Mg合金金型 鋳造材の時効硬化特性/ 富山大 (院)高田 侑司, 古井光明, 寺山清志, 北陸能開大 池野 進, アーレスティ 〇才川清二
	第1会場(52号館101)	第2会場(52号館102)	第3会場(52号館103)	第4会場(52号館201)
		形状付与加工4 久富裕二(住友軽金属)	マグネシウム5 宮下幸雄(長岡技科大)	
		45 高強度Al-Zn-Mg合金溶接継手の強度特性/ 協栄製作所 平口與志継, 岐阜大 ○(院)三 田陽介, 住友軽金属 箕田 正, 岐阜大 山縣 裕, 協栄製作所 高田哲仁, 岐阜大 新川真人	69 マグネシウム合金AZ31のねじり押出しによる結晶方位および機械的性質の変化/ 神奈川工大 ○(院)竹内敏幸, 水沼 晋, 三井和博, 大阪府大 高津正秀	
14:30~ 15:50		46表面改質処理されたアルミニウムの接合界面 強度に及ぼす接合圧力の効果/ 群馬大 ○ (院)甘利 俊, 小山真司, 荘司郁夫	70 AZ31Bマグネシウム合金押出材の疲労特性に 及ぼす結晶粒径の影響/ 佐賀大 ○森田繁 樹, 佐賀県工技セ 平井智紀, 円城寺隆 志, 佐賀大 服部信祐	
			71 AZ31マグネシウム合金における片振引張疲労 破壊の粒径依存性/ 東北大 ○安藤大輔, 須藤祐司, 小池淳一	

72 高強度Mg-3.6Al-3.3Ca-0.4Mn合金押出し材 の微細組織/ 長岡技科大 ○大石敬一郎, 徐 世偉, 本間智之, 鎌土重晴

第2日目 2011年11月13日(日)

		372 H H 2011 - 11/11/0 H (H)	
	第5会場(52号館203)	第6会場(52号館302)	62号館(1階大会議室)
	テーマセッション	粉末冶金1	▍第88回シンポジウム 集合組織研究部会成果報告│
	摩擦攪拌接合(FSW)と組織制御1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	平田智丈(大阪府立産技研)	久保田正広(日本大)	「集合組織の制御とその形成機構」
	114 1050Al/ 5052Al合金の摩擦攪拌接合における	139 HPT加工によるAl/Fe ₂ O ₄ 高強度磁性複合材の	13:00 平面ひずみ圧縮したアルミニウム双結晶の再
	温度と微細組織の関係/ 宇都宮大 〇(院)	作製と特性評価/ 九州大 ○(院)米本 涼,	~ 結晶
	熊井勝哉, (院)阿久津康史, 高山善匡,	堀田善治, 有田 誠	13:40 和歌山工業高等専門学校 樫原恵蔵
	渡部英男	<u>ин Б п, н н м</u>	
	0.000		
	115 6061アルミニウム合金を用いた摩擦攪拌接合	140 高強度アルミニウム合金切削屑の固化成形と	
	時の力学的特性と継手の機械的性質/ 日本	機械的特性/名古屋大 ○(院)森本龍一,	
13:00~	大 ○(院)松丸慶成, 野本光輝, 加藤数良	久米裕二, 小橋 眞, 金武直幸	
14:20			
	116 異材摩擦攪拌接合における塑性流動と攪拌		13:40 Al-Mg-Si合金の再結晶集合組織形成に及ぼ
	部組織/ 大阪大 柴柳敏哉, 〇張 迪	散アルミニウム複合材料の創製/ 九州大	~ す冷間圧延の影響
		○(院)蘆田茉希, 堀田善治	14:20 古河スカイ㈱ 竹田博貴
	445 Harry 141 1 4 2004 (01/0004 to F1) - POLLYON	4.0 尺处1-2004年子生子///	
	117 溝加工を施したA6061/SUS304の重ねFSW継	142 圧縮ねじり加工法で作製したアルミニウム基磁	
	手における微小領域引張特性/ 大阪大 〇	性材料の特性/ 名古屋大 〇(院)曽我部	
	小椋 智,(院)西田太一, 川崎重工業 西	岳, 久米裕二 , 小橋 眞 , 金武直幸	
	田英人, 吉川脩平, 藤本光生, 大阪大		
	廣瀬明夫		
·		休憩(14:20~14:30)	

		休憩(14:20~14:30)	
	第5会場(52号館203)	第6会場(52号館302)	62号館(1階大会議室)
	テーマセッション	粉末冶金2	第88回シンポジウム 集合組織研究部会成果報告
	摩擦攪拌接合(FSW)と組織制御2		
	柴柳敏哉(大阪大)	久米裕二(名古屋大)	「集合組織の制御とその形成機構」
	118 5052アルミニウム合金箔材の摩擦攪拌接合に		14:30 Al-Mg-Si系合金の内部組織と力学特性に及
	おけるツール形状の効果/ 宇都宮大 〇	料の焼結機構と微細組織/ 広島大 〇佐々	
	(院)荒籾恒介, 高山善匡, 渡部英男	木元, (院)許 哲峰, 崔 龍範, 杉尾健次	15:10 九州大学 池田賢一
		郎,松木一弘	
	119 Microstructure and mechanical properties of	144 MA-SPSプロセスによるCaO粒子分散強化マグ	15:10 AZ80マグネシウム合金の高温圧縮加工にお
4400	dissimilar friction stir welds between AZ31 and	ネシウム基複合材料の特性/ 日本大 〇	~ ける集合組織の形成過程
14:30~	AA6061-T6 plates/ 韓国生産技術研究院	(院)萩野敏基, 久保田正広	15:50 横浜国立大学 岡安和人
15:50	○李 光鎮, Sanghyuk Kim, 全北大 Keedo		
	Woo		
	120 難燃性マグネシウム合金とアルミニウム合金の	145 Production of Al-Ti Bulk Nanostructured	15:50 摩擦攪拌・熱を用いた高速突起成形における
	異種金属摩擦攪拌接合/ 大阪府立産技研 ○平田智丈, 田中 努, 関西大 森重大	Intermetallics and Nanocomposites by High-	塑性流動16:30 茨城県工業技術センター 行武榮太郎
	□平田省文, 田中 劣, 関四人 森里入 樹, 北沢産業 北沢孝次	Pressure Torsion/ Kyushu University () K.Edalati, S.Toh, Z.Horita	10:50 次場宗工未仅州ピンクー 行政宋太郎
	倒, 北仍连来 北仍李仍	K.Eudiau, S.1011, Z.11011ta	

第1日目 2011年11月12日(土)

ポスターセッション (55号館 N棟 1階大会議室) (13:30~15:00) / (同時開催)企業紹介セッション					
P01 純アルミニウムの微小押込試験に 及ぼす純度およびひずみ速度の 影響/ 防衛大 ○山田浩之, (院)清水陽子, 小笠原永久, 大阪大 堀川敬太郎, 小林秀敏	P09 Mg-Zn-Y合金の圧延加工による強度向上と組織変化/ 千葉工大 ○野田雅史, 熊本大 河村能人	P17 脊椎固定器具用Ti-Mo合金の力 学的特性に及ぼす変形誘起相の 影響/ 東北大 ○(院)趙 幸鋒, 新家光雄, 仲井正昭, 稗田純 子	P25 FRSP後焼なましされた純アルミニウム板材表面層の集合組織解析 / 宇都宮大 ○(院)濱野龍一, (院)野中健太, 高山善匡, 渡部 英男	P33 LPSO型Mg−Zn−Gd合金の組織形成と機械的性質に及ぼす押出条件の影響/熊本大○(院)平野雅昭,山崎倫昭,河村能人	P41 Zrを含む導電用アルミニウム線材 の焼鈍軟化挙動/ 茨城大 ○ (院)伊 偉, 伊藤吾朗, 日立 電線 黒田洋光, 堀越稔之, 小 田祐一
P02 金属AIの陽極酸化により形成されるナノポーラスアルミナ膜の表面化学修飾による機能化/ 群馬大○撹上健二, (院)花屋 実		P18 半凝固鋳造法によるAC2Bアルミニ ウム合金/SiC複合材料の作製/ 千葉工大 ○(院)小林聖也, 茂 木徹一, (院)吉田隆一, サンデ ン 千葉隆一, 石原良規, 佐々 木新悟	P26 ショットピーニングによる超微細組 織有するAZ31マグネシウム合金の 表面特性/ 千葉工大 (院)市 原佑樹, 船見国男, 野田雅史	P34 熱間圧延で作製したAl-Zn共析合金板の延性/ 茨城大 ○(院)グェン・ロックテー, 伊藤吾朗, 本橋嘉信, 佐久間隆昭	P42 7075アルミニウム合金の摩擦攪拌 処理後の時効硬化に及ぼす処理 条件の影響/ 宇都宮大 ○(院) 高橋政樹, 高山善匡, 渡部英 男, 大阪大 柴柳敏哉
P03 リン酸塩陽極酸化処理によるAZXマグネシウム合金の耐食性改善/ 岡山理科大 ○(院)齋藤敦志, 金谷輝人, 岡山工技セ 村上浩 二,日野 実, 堀金属表面処理 西條充司	P11 摩擦接合によりSPCC鋼板上へ生成した6061アルミニウム合金突起の機械的性質/ 日本大 ○(院) 梅島一哉, 加藤数良	P19 物質循環型アルミニウムリサイクル プロセスの開発/ 東北大 ○平 木岳人, 長坂徹也	P27 アルミニウムにおける環境水素の 挙動に及ぼす金属間化合物の影響/ 茨城大 伊藤吾朗, ○(院) 渡壁尚仁, (院)中野雅彦	P35 結晶方位三次元測定と粒界粒子 追跡法による結晶粒変形挙動解析 / 豊橋技科大 ()院)神子貴 信, 戸田裕之, 小林正和, Darren John Leclere, 水関康晴, JASRI 上杉健太朗	P43 水素マイクロプリント法によるAl-Mg 合金中の水素の放出挙動解析/ 茨城大 伊藤吾朗, ○(院)齋藤 勝大, (学)小山僚人, (院)堤 友 浩
樹脂レーザ接合/ 岡山理科大 ○(院)松山億希, 金谷輝人, 岡 山工技セ 水戸岡豊, 村上浩 二, 日野 実, 早川ゴム 山田 功作	(院)渡辺 唯, 久保田正広	用いた発泡アルミニウム合金の作製/ 早稲田大 ○(学)福井貴明, 鈴木進補, (院)野中由寛,中江秀雄	P28 Mg-Al-Ca-Mn系合金押出材の疲労特性/ 長岡技科大 ○(院)村山義幸, 宮下幸雄, 鎌土重晴,本間智之, 徐 世偉, 大石敬一郎	P36 LPSO型Mg-Zn-Y-Nd合金押出材 の組織と機械的性質に及ぼすZnと Nd添加量の影響/ 熊本大 ○ (院)申 俊熙, くまもとテクノ産業 財団 金 鍾鉱, 熊本大 山崎倫 昭, 河村能人	の誘電特性と漏れ電流の制御/ 工学院大 ○(院)深尾智紀, 阿 相英孝, 小野幸子
P05 FCC金属の新たな低温域クリープの転位構造に及ぼす積層欠陥エネルギーの影響/東京大○(院)寺澤史紘, 法政大(院)石渡薫, 宇宙研 川合伸明, 佐藤英一, 東北大 松永哲也	グネシウムの時効硬化特性/ 日本大 ○(院)萩野敏基, 久保田 正広	P21 Al-Mg-Bi合金を用いた発泡アルミニウム合金の気孔形態に及ぼす作製条件の影響/ 早稲田大 ○ (学)鈴木浩嗣, 鈴木進補, (院)野中由寛, 中江秀雄		P37 超高純度アルミニウムのせん断変 形/焼きなましによる組織形成の SEM /EBSD解析/宇都宮大 ○ (院)保科康裕, 高山善匡, 渡部 英男	P45 Mg-Gd-Zn-Zr合金のミクロ組織および機械的性質に及ぼすCa添加の影響/ 長岡技科大 ○(院)齋藤剛志, IHI 尾崎智道, 長岡技科大 本間智之, 鎌土重晴
型チタン合金の酸化物粒子分散 強化/ 東北大 〇(院)永井茂 樹, 新家光雄, 稗田純子, 仲 井正昭	俊也, 芝浦工大 宇都宮登雄, 福井大 桑水流理, 東京大 吉 川暢宏	最高硬さに対するZn濃度の影響 / 富山大 ○(学)櫻井佑介, (院)中西亮介, 川畑常眞, 北陸 能開大 池野 進, 富山大 松田 健二	に及ぼす構成相の影響/ 熊本大 ○(院)大谷 学, 山崎倫昭, 河 村能人	ブロー成形における予加工圧延条 件の影響/東北大 ○兼子 毅, (院)千葉大喜, 藤田文夫	P46 Mg-Gd-Y-Zn合金押出し材のミクロ 組織と高温特性に及ぼすMn添加 の影響/長岡技科大 ○(院)吉増 龍一、ヤマハ発動機 平光康裕、 小池俊勝、長岡技科大 本間智 之、鎌土重晴
P07 NaCl溶液中における高強度アルミニウム合金2024とCFRPとのガルバニック腐食/ 室蘭工大 境 昌宏, ○(院)和田拓也	スAI/緻密鋼板サンドイッチパネルの強度に及ぼす金属間化合物の影響/ 群馬大 ○(院)石井伸幸, 半谷禎彦, 小山真司, 芝浦工大 宇都宮登雄, 福井大桑水流理, 東京大 吉川暢宏	P23 Al-Mg-Ge合金の時効挙動に対する遷移金属添加の影響/ 富山大 ○(学)松浦圭祐, (院)村上友忠, 川畑常眞, 北陸能開大 池野 進, 富山大 松田健二	の加工性に及ぼすZr添加の影響 /熊本大 ○(院)井上晋一, 山 崎倫昭, 河村能人	の昇温脱離解析/茨城大 伊藤 吾朗,○(院)中野雅彦,(院)渡 壁尚仁	P47 Dissimilar friction stir welding for AZ31 and AA6061-T6 plates/ 韓国生産技術研究院 ○Sanghyuk Kim, 李 光鎮, 全北大 Keedo Woo
P08 AM60マグネシウム合金圧延材の 応力腐食割れに及ぼすミクロ組織 の影響/ 高知高専 ○(学)山本 修義, 奥村勇人, 長岡技科大 鎌土重晴	P16 気孔形態制御によるADC12傾斜機能ポーラスアルミニウムの圧縮変形挙動調査/ 群馬大 ○(院)高橋和也, (院)加藤弘規, 半谷禎彦, 芝浦工大 宇都宮登雄, グンダイ 北原総一郎, 福井大桑水流理,東京大 吉川暢宏	P24 HPT加工に伴うAl-Cu複合粉末の 固化と微細組織/ 九州大 (院) 米永洋介, ○堀田善治	P32 LPSO型Mg−Zn−Y合金押出材の引 張特性に及ぼすLPSO相体積分率 と押出速度の影響/ 熊本大 ○ (院)福永康文, 眞山 剛, 山崎 倫昭, 河村能人		

Program of

The 121st Conference of The Japan Institute of Light Metals (Nov. 12-13, 2011, Tokyo)

1. Microstructures of pure aluminum single crystals highly deformed by accumulative roll-bonding (ARB) process K.Kashihara, Y.Tsujimoto, D.Terada, N.Tsuji
2. Crystal rotation of pure alminum single crystals during plane strain compression Y.Yamamoto, M.Asano, H.Yoshida
3. Effects of compressive torsion processing conditions on microstructure refinement and tensile property of Al-Fe alloy Y.Kume, S.Ohta, M.Kobashi, N.Kanetake
4. Effect of strain path on recrystallization behabvior of A1050 aluminum sheet T.Shimamura, M.Imoto, T.Sakai, H.Utsunomiya
5. Shear texture analysis of surface layer subjected to friction roll surface processing and annealing in high-purity titanium sheet S.Nakama, Y.Ougiya, Y.Takayama, H.Watanabe
6. Recrystallization behavior of an Al-Mg-Si alloy during hot rolling S.Yasuda, K.Ichitani, A.Hibino
7. Mechanism of recrystallized microstructures in an Al-Mg-Si alloy A.Yamamoto
8. Effects of coarse particles on recrystallization behavior in the cold-rolled Al-Mn alloy K.Ogawa, S.Iwamura
9. Effect of coarse partiless on work hardening in the Al-Mn alloy S.Iwamura, K.Ogawa S.Iwamura, K.Ogawa
10. Effect of laser processing on texture in aluminum alloy sheet S.Kikuta, T.Sakai, H.Omata, J.Koyama
11. Effect of alloy composition and pre-aging condition on multi-step aging behavior in Al-Mg-Si alloy Y. Takaki, T. Masuda, T. Sato
12. Analyses of clustering behavior in an Al-Mg-Si alloy using computer simulation and 3DAP technique Y. Takaki, T.Masuda, T.Sato Y. Takaki, T.Masuda, T.Sato Y. Takaki, T.Masuda, T.Sato
13. Aging behavior of T6 heat-treated Al-Si-Mg alloy castings R.Morioka, M.Furui, S.Terayama, T.Kawabata, K.Matsuda, S.Ikeno, S.Saikawa
14. Age hardening behavior and precipitation structure of Al-10%Si-X%Mg casting alloys with T5 heat-treated condition T.Kitamura, T.Kawabata, M.Furui, K.Matsuda, K.Terayama, S.Ikeno, S.Saikawa
15. Effect of precipitation morphology on tensile deformation of Al-Mg-Si alloy R.Akiyoshi, K.Ikeda, M.Mitsuhara, S.Hata, H.Nakashima, K.Kaneko, M.Kikuchi, K.Takata, M.Saga, K.Ushioda
16. Effect of manganese addition on aging behavior of T6 heat-treated Al-10%Si-0.3%Mg alloy S.Tomita, T.Kawabata, M.Furui, K.Matsuda, K.Terayama, S.Ikeno, S.Saikawa
17. Effect of Mn and Fe content on age-hardening behavior of Al-Mg ₂ Si alloy S. Wang, S.Chen, T.Kawabata, T.Yamazaki, S.Ikeno, H.Takagi, K.Kawakita, K.Matsuda
18. Behavior of two-stage aging in Al-Mg-Si-(Ag/Cu) alloys Y.Oe, M.Tokuda, K.Nagai, T.Kawabata, S.Ikeno, K.Matuda
19. Effect of the solution heat treatment conditions on the age hardening behavior of Al-Mg-Si alloy K.Fukawa, Y.Yamamoto, H.Uchida
20. Effects of Zn content and ageing condition on serration in Al-Mg alloys Y.Aruga, K.Matsumoto, H.Tsuneishi
21. Effect of Cu and Ag addition on the age-precipitate of Al-Mg-Si alloys aged at 523K M.Tokuda, T.Nagai, T.Kawabata, J.Nakamura, S.Ikeno, K.Matsuda
22. Effect of Mn content on T5 heat treatment behavior of Al-Si-Mg casting alloy T.Otake, T.Inoue, A.Kuroda, H.Kanbe, M.Yoshida
23. Effect of additional elements on the age-hardening property of Al-Zn-Mg alloys K.Watanabe, T.Kawabata, S.Ikeno, T.Yoshida, S.Murakami, K.Matsuda
24. The effects of multiple addition of transition elements on the control of surface recrystallization in Al-Zn-Mg alloy extrusion Y.Miyata, S.Yoshihara
25. Application of High-Pressure Sliding for 7075 Al alloy and microstructure control K.Tazoe, Z.Horita
26. TEM observation for precipitates in aged Al-Mg-Ge alloys with different Mg ₂ Ge contents T.Murakami, T.Nagai, T.Kawabata, S.Ikeno, K.Matsuda
27. Precipitation under external stress and dimensional change in a Al-4mass%Cu alloy S.Okawara, M.Kurasawa, C.Watanabe, R.Monzen
28. Characteristic microstructural features and enhanced mechanical properties in bulk and powder-consolidated Al-Fe alloys after processing by High-Pressure Torsion J.Cubero, Z.Horita
29. Effect of homogenization treatment on n value of Al-Fe alloy sheets
30. The effects of heat treatment conditions on the elongation of 1200 alloy sheets T.Nakamura, H.Yoshida, M.Asano
31. Hydrogen generation of bulk Al alloys T.Omori, Y.Takaku, I.Ohnuma, K.Ishida

32. Effects of intermetallic compounds on solid solution amount determination by phenol dissolution method Y.Shimizu, K.Kojima, K.Kurusu
33. Effect of collision condition on metal jet emission and interface morphology at high speed collision of Al plates S.Kakizaki, Y.Sawa, S.Kumai
34. Strength and interfacial microstructure of aluminum alloy stud/plated steel joints fabricated by high-speed solid-state joining K.Ishizuka, S.Kumai
35. Effect of plate thickness on microstructure and mechanical properties of high-speed solid-state welded 2024 aluminum alloy stud and 6N01 aluminum alloy plate K.Takaya, S.Kumai
36. The tightening characteristics and effectiveness of magnesium alloy bolts
Y.Kurakake, S.Hashimura, Y.Miyashita, S.Yamanaka 37. Oxidation behavior of Nocolok flux/Nocolok Zn flux H.Kumagai, Y.Hisatomi
20 Effect of Manual Literature of A.I. C. Eller allow on bound life of soil a long light of state of the same and said and some
39. Influence of Filler Composition and Brazing Conditions on Erosion Phenomena by Flowing Liquid Filler during Aluminum Brazing K.Matsukado, A.Tsuruno
40. Effect of the Bonding Pressure on Solid-state Bonding Strength of Al/Cu with Alkali Treatment H.Hata, S.Koyama, I.Shohji
41. Laser pressure welding of A5052/HTSS and A1050/Ti K.Nishimoto
42. Studies on MIG welding of aliminum and steel T.Fukuda, M.Kumagai
43. 3D-FEM stress analysis of adhesively single-lap joints with both adherends quasi-isotropic CFRP laminate and metal J.Shimura, N.Kosaka, S.Kurosaki, T.Suzuki
[Cancellation] 44. Bonding strength and plastic workability of Mg ally composite material coated by Al alloy H.Saito, M.Noda, K.Funami
45. Strength of butt-weld joints of high strength Al-Zn-Mg alloys
46. Effect of Bonding Pressure on Bond Strength on Al with Modification Treatment S.Amari, S.Koyama, I.Shoji
47. The effect of stress axis on fatigue behavior of pure Al single crystals with single slip orientation M.Fukasawa, C.Watanabe, R.Monzen
48. Effect of pre-existing hydrogen on ductile fracture in a 2024 aluminum alloy
T.Inamori, H.Toda, K.Horikawa, M.Kobayashi, Y.Suzuki, K.Uesugi, A.Takeuchi 49. 4D analysis of deformation localization in the vicinity of crack tip
50. Behavior of hydrogen in the vicinity of crack tip in aluminum alloys G.Itoh, H.Iwahashi, T.Watakabe, N.Itoh
51. Fatigue properties of the anodized Magnesium Die-Casts
52. Age-hardening behavior of Mg-3~9%Al system alloys cast into sand mold
Y.Ebata, M.Furui, K.Terayama, S.Ikeno, K.Sakakibara, S.Saikawa 53. Microstructure and age hardening behavior of Mg-10~13%Al system alloys cast by permanent mold process
K.Minami, M.Furui, K.Terayama, S.Ikeno, S.Saikawa, K.Sakakibara 54. Microstructure and age-hardening behavior of Mg-10~13%Al alloy cast by sand-mold process.
A.Yoshida, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 55. Effect of Mn contents on age-hardening in AM-series magnesium alloy
T.Tsuchiya, K.Watanabe, T.Kawabata, S.Ikeno, K.Matsuda, S.Saikawa 56. TEM observation of precipitates in early stage of aging of direct quenched binary Mg-Zn alloys
R.Nakanishi, T.Kawabata, S.Ikeno, K.Matsuda 57. The thickness measurement method of the magnesium oxide film by XPS depth analysis
58. Preparation and corrosion resistance of Molybdate film on magnesium alloy
T.Ishizaki, M.Sakamoto 59. Influence of aluminum content on corrosion resistance of Mg-Al alloys containing copper and zinc
60. Simultaneous acquisition of age-hardening and corrosion resistance of AZ80 magnesium alloy by sol-gel method Y.Harada, S.Kumai
61. Creep properties characterization on a magnesium alloy with LPSO phase through instrumented indentation testing technique
D.Takeda, H.Takagi, M.Fujiwara, K.Higashida, Y.Kawamura 62. Compressive Deformation behavior and Dislocation Substructures in an Long Period Stacking Ordered Mg-Ni-Y alloy
M.Suzuki, A.Shimaya, K.Maruyama, T.Itoi 63. Optimization of Ca content in compressed and T5-treated AZ 91 alloy
64. Microstructure and mechanical properties of room-temperature multidirectionally forged AZ61 Mg alloy
H.Miura, T.Maruoka 65. Influence of Zn contents on microstructure in AZ-series magnesium alloys
Y.Narukawa, K.Watanabe, T.Kawabata, S.Ikeno, K.Matsuda, S.Saikawa

67. Microstructure and mechanical properties of rolled Mg-Al-Ca-Mm alloy discuss 88. Dysamic microstructure development of an Mg-Al-Ca-Mm alloy during bet colling process 89. Xia, K. Odishi, S. Karnado, T. Horman 89. Change of crystal orientation and mechanical properties by terrison extrusion of magnetism alloy AZ21 90. Influence of grain size on futigue properties in cutuded AZ21B magnetism alloy 71. Influence of grain size on futigue properties in cutuded AZ21B magnetism alloy 72. Microstructure of high strength Mg-3 (Ad-3-3-3-Ca-0-Mm alloy subjected to hot extrusion 73. Currosson behavior of alumnum uluming electrolytic hydrogen charging 74. Diffect of our face tourisms in the freezing behaviors 75. Currosson behavior of alumnum uluming electrolytic hydrogen charging 76. Hilled of our face tourisms in the freezing behaviors 77. Currosson behavior of alumnum unduring electrolytic hydrogen charging 78. Effects of white particulates in containg films on host radiating and general properties of processored aluminum sheet 78. Tracesumi, Nilab. 78. Effects of white particulates in containg films on host radiating and general properties of processored aluminum sheet 78. Tracesumi, Nilab. 78. Fifted of scaling in thibum hydroxide solicion on corressore resistance of arrotte pursus films formed on alumnum 78. Tracesumi, Nilab. 78. Fifted of Scaling in thibum hydroxide solicion on corressore resistance of arrotte pursus films formed on alumnum 78. Tracesumi, Nilab. 79. Tracesumi, Nilab. 70. Tracesumi, Nilab. 71. Tracesumi, Nilab. 71. Tracesumi, Nilab. 72. Tracesumi, Nilab. 73. Proformation of the corrosion tests in model up water 74. Tracesumi, Nilab. 75. Tracesumi, Nilab. 76. Tracesumi, Nilab. 77. Tracesumi, Nilab. 78. Tracesumi, Nilab. 78. Tracesumi, Nilab. 78. Tracesumi, Nilab. 78. Tracesumi, Nilab. 79. Tracesumi, Nilab. 79. Tracesumi, Nilab. 70. Tracesumi, Nilab.	66. Effects of texture and microstructure on the mechanical property of AZ61 alloy magnesium continuous casting sheets T.Kimura, N.Oda, M.Kozui, G.Sasaki
68. Dynamic nicrotrusteure development of an Mg-AICa-Mn alloy during hot rolling process 69. Changes of crystal orientation and mechanical properties by tursion extrusion of magnesium alloy A731 70. Influence of grain size on full gue properties in extunded A7318 magnesium alloy 71. The guan size dependence of fincture mechanism by lemsion-tension fittigue test in A231 72. Microtrusteur of high strength Mg-3,6A1-32C-0.48th alloy subjected to hot extrusion 73. Cornotion behavior of aluminum during electrolytic hydrogen charging 74. Effect of surface reatments on the fronting behavior 75. Effect of surface reatments on the fronting behavior 76. Effect of surface reatments on the fronting behavior 77. Effect of surface reatments on the fronting behavior 78. Effect of surface reatments on the fronting behavior 79. Effect of vehic particulates in conting films on beat radiating and general properties of pre-coaled aluminum sheet 70. Effect of surface reatments on the fronting behavior 71. Effect of surface reatments on the fronting behavior 72. Effect of surface reatments on the tradiation and general properties of pre-coaled aluminum sheet 73. Cornotion behavior of aluminum during electrolytic hydrogen charging 74. Effect of surface reatments on the tradiation and general properties of pre-coaled aluminum sheet 75. Effects of while particulates in conting films on beat tradiations and general properties of pre-coaled aluminum sheet 76. Effect of scaling in thinam hydroxide solution on cornotion resistance of mode percus films formed on aluminum 77. His conting on the thermo mechanical troated A7075 ally and its mechanical property 78. Effect of Fe or Ni addition and best treatment on pitting corrosion of Al-Mit alloy 79. Effect of Fe or Ni addition and best treatment on pitting corrosion of Al-Mit alloy 70. First of the first of the form on Ni addition on corrosion behavior in HCl aqueous solution with different concentrations of ultra-light printip. 70. States and plays of A3003 after corros	67. Microstructure and mechanical properties of rolled Mg-Al-Ca-Mn alloy sheets
69 Change of crystal orientation and mechanical properties by torsion extrusion of magnesium alloy AZ31 70. Influence of grain size on filippe properties in extruded AZ318 magnesium alloy 71. The gains size dependence of fracture mechanism by tension-tension filippe test in AZ31 71. Default of particular of the particular of the properties of previous of the extrusion 72. Microstructure of high strength Mg-3.6A1-3.2C-0.4Mn alloy subjected to hot extrusion 73. Corroson behavior of aluminam during electrodyte hydrogen charging 74. Effect of surface treatments on the fronting behavior 75. Lifects of white particularies in coating films on heat radiating and general properties of pre-coated aluminam sheet 76. Effect of surface treatments on the fronting behavior 77. The coating on the thermo mechanical treated A7075 ally and its mechanical properties of pre-coated aluminam sheet 77. The coating on the thermo mechanical treated A7075 ally and its mechanical properties of pre-coated aluminam sheet 77. The coating on the thermo mechanical treated A7075 ally and its mechanical properties of pre-coated aluminam sheet 78. Effect of Ca addition and heat treatment on pitting corrosion of ALMn alloy 79. Effect of For et Ni addition and heat treatment on pitting corrosion of ALMn alloy 79. Effect of For et Ni addition on corrosion behavior of ALMn alloy 79. Effect of For et Ni addition on corrosion behavior in ILCI aqueeus solution with different cornectrations of ultra-high partity aluminam 79. Effect of For et Ni addition on dependence of the corrosion behavior in ILCI aqueeus solution with different cornectrations of ultra-high partity aluminam. 79. Effect of For et Ni addition of dependence of the corrosion behavior in ILCI aqueeus solution with different cornectrations of ultra-high partity aluminam. 70. Surface analysis of A2003 after corrosion tests in model tap water 71. Effect of farminam and company of the partition of the cornectration of the treatment of liquid meals 72. Effect of strain and O. SnassSt/F addition	68. Dynamic microstructure development of an Mg-Al-Ca-Mn alloy during hot rolling process
70. Intersect of grain size on flatique properties in extruded AZ-II magnesism alloy 71. The grain size dependence of fracture mechanism by tension-tension flatique test in AZ-31 72. Corosion behavior of aluminum during electrolytic hydrogen charging 73. Corosion behavior of aluminum during electrolytic hydrogen charging 74. Effect of surface treatments on the frosting behavior 75. Effect of surface treatments on the frosting behavior 76. Effect of surface treatments on the frosting behavior 77. Effect of surface treatments on the frosting behavior 78. Effect of surface treatments on the frosting behavior 79. Effect of sealing in lithium hydroxide solution on corresion resistance of anode porous films formed on aluminum. 70. Effect of sealing in lithium hydroxide solution on corresion resistance of anode porous films formed on aluminum. 70. Effect of sealing in lithium hydroxide solution on corresion resistance of anode porous films formed on aluminum. 70. Effect of sealing in lithium hydroxide solution on corresion resistance of anode porous films formed on aluminum. 70. Effect of sealing in lithium hydroxide solution on corresion resistance of anode porous films formed on aluminum. 71. Effect of sealing in lithium hydroxide solution on corresion resistance of anode porous films formed on aluminum. 72. Effect of sealing in lithium hydroxide solution on corresion resistance of anode porous films formed on aluminum. 73. Effect of sealing in lithium hydroxide solution on partial general property 74. Effect of sealing in lithium hydroxide solution on partial general property 75. Effect of Sea Na addition and aleast treatment on partial general property 76. Effect of Sea Na addition on corresion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Sea Na addition on corresion behaviors in HCI aqueous solution with different concentrations of ultra-high parity aluminum. 81. Crystallographic orientation dependence of the corresion behavior in HCI aqueous solution	69. Change of crystal orientation and mechanical properties by torsion extrusion of magnesium alloy AZ31
17. The gains size dependence of facture mechanism by tension-tension futigue test in AZ31 17. Microstructure of high strongth Mg-3.6A1-3 3Ca-0 AMn alloy subjected to hor extrusion 17. Corrosion behavior of aluminum during electrolytic hydrogen charging 17. Glob. T.Tautsumi, N.Iich 17. Effect of surface treatments on the frosting behavior 17. Effect of surface treatments on the frosting behavior 17. Effect of surface treatments on the frosting behavior 17. Effect of surface in the principle of the process of the surface of annulic porous films formed on aluminum 18. Effect of surface in the principle of the principle of the property of the principle of the property of the property of the principle of the property of	70. Influence of grain size on fatigue properties in extruded AZ31B magnesium alloy
22. Microstructure of high stength Mg-3.6A.3-3.Ce-0-4Mn alloy subjected to hot extrasion 33. Corrosion behavior of aluminum during electrolytic hydrogen charging 34. Effect of surface treatments on the frosting behavior 35. Effect of surface treatments on the frosting behavior 36. Effect of surface treatments on the frosting behavior 37. Effect of surface treatments on the frosting behavior 38. Effect of suchine particulates in coating films on heat radiating and general properties of pre-coated aluminum sheet 37. Cazwa, T.Maezomo 38. Effect of Sealing in lithium hydroxide solution on corrosion resistance of anodic porous films formed on aluminum 38. H.Asoh, M.Okura, H.Tanaka, M.Fujita, H.Muramatsu, S.Ono 38. Effect of Cu addition and heat treatment on pitting corrosion of Al-Mn alloy 38. Effect of Te or Ni addition on corrosion behaviors for aluminum in weak alkalifne solution under high temperature 38. Surface analysis of A3003 after corrosion tests in model tup water 38. Crystallographic onemation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high purity aluminum 38. Performance characteristics of large-sized ceramic ultrasonic horn used for treatment of liquid metals 38. Performance characteristics of large-sized ceramic ultrasonic horn used for treatment of liquid metals 38. Komarow, Y.Ishiwata 39. Nateleus for Al-Fe-Si compound refined by ultrasonic radiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic radiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic indiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic radiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic radiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic radiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic radiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic radiation 40. Refinement of Al-Fe-Si compound refined by ultrasonic radiation 40. Refined of feating rate during	71. The grain size dependence of fracture mechanism by tension-tension fatigue test in A731
3. Corrosion behavior of aluminum during electrolytic hydrogen charging G. Iloh, T.Tsutsumi, N.Itoh 74. Effect of surface treatments on the frosting behavior 75. Effects of white particulates in coating films on heat radiating and general properties of pre-coated aluminum sheet 76. Effect of scaling in lithium hydroxide solution on corrosion resistance of anodic porous films formed on aluminum 77. TiN coating on the thermo mechanical treated A7075 ally and its mechanical property 78. Effect of Cu addition and heat treatment on pitting corrosion of Al-Min alloy 79. Effect of Fe or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Fe or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Fe or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 70. Surface analysis of A3003 after corrosion tests in model top water 71. Corporation of the purpose of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high purity aluminum 71. Surface analysis of Casting aluminum-magnesium-zine alloy 72. Effect of Fe or Ni addition on corrosion behavior in HCl aqueous solution with different concentrations of ultra-high purity aluminum 73. Performance characteristics of large-sized ceramic ultrassonic horn used for treatment of liquid metals 74. Effect of Stating aluminum-magnesium-zine alloy 75. Komatrov, Y.Ishiwata 76. Indiana, A. Performance characteristics of large-sized ceramic ultrassonic horn used for treatment of liquid metals 76. Koula, H.Okada 77. Kabo, Y.Matsui, M.Yoshida, H.Uno, K. Matsuda 78. Nolcluss for Al-Fe-Si compound refined by ultrassosic radiation 78. Effect of Statin and 0.5 mass/si?e addition on the semi-solid microstructure of Al-Ze-Mg alloy 78. Kabo, Y.Matsui, H.Yashayana, E.Sekiya 78. Effect of feating rate during solution treatment on morphology of eutectic Si particles of AC-4CH casting a	72 Microstructure of high strength Mg-3 6Al-3 3Ca-0 4Mn alloy subjected to hot extrusion
74. Effect of surface treatments on the frosting behavior 75. Effects of white particulates in coating films on heat radiating and general properties of pre-coated aluminum sheet 76. Effect of scaling in lithium hydroxide solution on corrosion resistance of anodic porous films formed on aluminum 77. The coating on the thermo mechanical treated A7075 ally and its mechanical property 78. Effect of Cu addition and heat treatment on pitting corrosion of Ai-Mn alloy 79. Effect of Fe or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Fo or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Fo or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Fo or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 71. The guashii, Y.Honkawa, Y.Kejima 72. Effect of Fo or Ni addition on corrosion behavior in HCI aqueous solution with different concentrations of ultra-high purity aluminum 73. Effect of Fo or Ni addition on corrosion behavior in HCI aqueous solution with different concentrations of ultra-high purity aluminum 74. Effect of For or Ni addition on Carain for the aluminum-magnesium-sine alloy 75. Effect of Stallographic orientation dependence of the corrosion behavior in HCI aqueous solution with different concentrations of ultra-high purity aluminum 75. Effect of Stallographic orientation of Carain Refinement of HCI aqueous solution with different concentrations of ultra-high purity aluminum 75. Part of Stallographic orientation on Grain Refinement of Al-Hmass ² 85 Alloy 76. KMurakami, M Hino, N Nagata, T Kanadani 77. Kanadani 78. Nacleus for Al-Te-Si compound refined by ultrasonic radiation 78. Nacleus for Al-Te-Si compound refined by ultrasonic radiation 78. Effect of Stallographic oriental defect of the aluminum east product by using the gas analysis 78. Effect of Stallographic defect of the a	73. Corrosion behavior of aluminum during electrolytic hydrogen charging
7. Effects of white particulates in coating films on heat radiating and general properties of pre-coated aluminum sheet T. Ozawa, T. Maczono 76. Effect of sealing in lithium hydroxide solution on corrosion resistance of anodic porous films formed on aluminum II. Asoh, M. Okura, II. Tanaka, M. Fujita, H. Muramatsu, S. Oro 77. TN coating on the thermo mechanical treated A 7075 ally and its mechanical property T. Idogami, S. Nishisako, T. Sugimoto 78. Effect of Cu addition and heat treatment on pitting corrosion of Al-Mn alloy T. Koyama, R. Fujimura, T. Shoji 79. Effect of For Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature M. Sato, Y. Takayama, R. Fujimura, T. Shoji 80. Surface analysis of A3003 after corrosion tests in model tap water M. Sato, Y. Takayama, H. Watanabe 81. Crystallographic orientation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high party aluminum 82. Electropolishing of casting aluminum-magnesium-zine alloy K. Murakami, M. Hino, N. Nagata, T. Kanadami 83. Performance characteristics of large-sized ceramic ultrasonic horn used for treatment of liquid metals 84. Influence of Ultrasonic Irradiation on Grain Refinement of Al-4-mass/985 Alloy K. Murakami, M. Hino, N. Nagata, T. Kanadami 85. Nucleus for Al-Fe-Si compound refined by ultrasonic radiation K. Oda, T. Isobe, H. Okada 86. Refinement of Al-Fe-Si compound refined by ultrasonic radiation K. Oda, T. Isobe, K. Oda, H. Okada 87. Effect of strain and 0. Smass/see addition on the semi-solid microstructure of Al-Ze-Mg alloy Fifect of funding rate during solution treatment on morphology of cutectic Si particles of AC4CH easting alloys V. Kituno, M.Noda, K. Fumani 90. Effect of microstructure on mechanical property of 7075 aluminum alloy Y. Kano, M. Funi, K. Terayama, S. Ikeno, S. Saikawa 91. Casting of clad strips by roll casters M. Motomura, T. Haga, R. Nakamura, H. Tsuge, K. Kumai, S. Suzuki, H. Watari 94. Aging beha	G.Itoh, T.Tsutsumi, N.Itoh
T. Cawa, T. Maezamo H. Asoh, M. Okura, H. Tanaka, M. Fujita, H. Muramatsu, S. Ono T. TiN conting on the thermo mechanical treated A 7075 ally and its mechanical property T. Idegami, S. Nishisako, T. Sugimoto R. Effect of Cu addition and heat treatment on pitting corrosion of Al-Mn alloy T. Idegami, S. Nishisako, T. Sugimoto R. Effect of Cu addition and heat treatment on pitting corrosion of Al-Mn alloy T. Koyama, R. Fujimura, T. Shoji P. Effect of Fe or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature T. Yacgashi, Y. Honkawa, Y. Kojima R. Sugimenta analysis of A3003 after corrosion behaviors for aluminum in weak alkaline solution under high temperature M. Sakairi, K. Otani R. Crystallographic orientation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high party aluminum M. Sakairi, K. Otani R. Crystallographic orientation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high party aluminum M. Sakairi, K. Otani R. Crystallographic orientation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high party aluminum M. Sakairi, K. Otani R. Crystallographic orientation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high party aluminum M. Sakairi, K. Otani R. Crystallographic orientation of casting aluminum-magnesium-rine alloy K. Murakami, M. Hino, N. Nagata, T. Kanadani R. Marakami, M. Hino, N. Nada, M. Kanadani R. Marakami, M. Hino, N. Nagata, T. Kanadani R. Marakami, M. Hino, N. Nagata, R. K. Marakami, M. Hino, N. Nada, H. Cha, M. K. Marakami, M. Hino, N. Nada, H. Cha, M. K. Labashi, H. Takahashi R. Erfect of Strain and O. Smass*áré addition on the semi-solid microstructure of Al-Ze-Mg al	Y.Ota, T.Tateyama, Y.Toyoda
H.Asoh, M.Okura, H.Tanaka, M.Fujita, H.Muramatsu, S.Ono 77. TiN coating on the thermo mechanical treated A7075 ally and its mechanical property T.Idegami, S.Nishisako, T.Sugimoto 78. Effect of Cu addition and heat treatment on pitting corrosion of Al-Ma alloy T.Koyama, R.Fujimura, T.Shoji 79. Effect of Fo or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature T.Yaegashi, Y.Honkawa, Y.Kojima 80. Surface analysis of A3003 after corrosion tests in model tap water M.Sakairi, K.Otani 81. Crystallographic orientation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high purity aluminum M.Sato, Y.Takayama, H.Watanabe 82. Electropolishing of casting aluminum-magnesium-zine alloy K.Murakami, M.Hino, N.Nagata, T.Kanadani 83. Performance characteristics of large-sized ceramic ultrasonic horn used for treatment of liquid metals S.Komarov, Y.Ishiwata 84. Influence of Ultrasonic Irradiation on Grain Refinement of A1-4mass%Si Alloy 85. Nucleus for A1-Fe-Si compound refined by ultrasonic radiation K.Oda, T.Isobe, H.Okada 86. Refinement of A1-Fe-Si compound by addition of heterogeneous nucleus T.Isobe, K.Oda, H.Okada 87. Effect of Staini and O.Smass%Fe-addition on the semi-solid microstructure of A1-Zn-Mg alloy A. Ohtani, H.Tezuka, E.Kobayashi, T. Sato S. Evaluation of internal defect of the aluminum cast product by using the gas analysis K. Itabashi, H.Takahashi S. Evaluation of internal defect of the aluminum cast product by using the gas analysis M.Motomura, T. Haga, R.Nakamura, H.Tsuge, K.Kumai, S.Suzuki, H.Watari 92. Casting of Clad strips by roll casters M.Motomura, T. Haga, R.Nakamura, H.Tsuge, K.Kumai, S.Suzuki, H.Watari 93. Heat transfer solidification analyses of twin roll casting for magnesium alloy T.Nagumo, M.Endou, S.Nishida, H.Watari 94. Aging behavior of A1-10%Si-Mg alloy sand castings under various demodding temperatures Y.Kano, M.Furui, K.Terayama, S.Reno, S.Saikawa 95. Age hardening characteri	T.Ozawa, T.Maezono
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78. Effect of Cu addition and heat treatment on pitting corrosion of Al-Mn alloy 79. Effect of Fe or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Fe or Ni addition on corrosion behaviors for aluminum in weak alkaline solution under high temperature 79. Effect of Fe or Ni addition on corrosion behavior in model tap water 79. Surface analysis of A3003 after corrosion tests in model tap water 79. Surface analysis of A3003 after corrosion tests in model tap water 81. Crystallographic orientation dependence of the corrosion behavior in HCl aqueous solution with different concentrations of ultra-high purity aluminum 82. Electropolishing of casting aluminum-magnesium-zine alloy 83. Performance characteristics of large-sized ceramic ultrasonic horn used for treatment of liquid metals 84. Influence of Ultrasonic Irradiation on Grain Refinement of A1-mass%Si Alloy 85. Nucleus for A1-Fe-Si compound refined by ultrasonic radiation 86. Refinement of A1-Fe-Si compound refined by ultrasonic radiation 87. Effect of strain and 0.5mass%Fe addition on the semi-solid microstructure of A1-Zn-Mg alloy 88. Evaluation of internal defect of the aluminum cast product by using the gas analysis 89. Effect of microstructure on mechanical property of 7075 aluminum alloy 90. Effect of heating rate during solution treatment on morphology of cutectic Si particles of AC4CH easting alloys 91. Casting of clad strips by roll casters 93. Heat transfer solidification analyses of twin roll casting for magnesium alloy 94. Aging behavior of A1-10%Si-Mg alloy sand castings under various demolding temperatures 95. Age hardening characteristics of A1-10%Si-Mg alloy permanent mold castings demolded at different temperature 96. Aging behavior of A1-10%Si-Mg alloy sand castings under various demolded at different temperature, Y.Takada, M.Furui, K.Terayama, S.Beno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum 97. Microstructural control of A11070 by	T.Idegami, S.Nishisako, T.Sugimoto
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85. Nucleus for Al-Fe-Si compound refined by ultrasonic radiation K.Oda, T.Isobe, H.Okada 86. Refinement of Al-Fe-Si compound by addition of heterogeneous nucleus T.Isobe, K.Oda, H.Okada 87. Effect of strain and 0.5mass%Fe addition on the semi-solid microstructure of Al-Zn-Mg alloy A.Ohtani, H.Tezuka, E.Kobayashi, T.Sato 88. Evaluation of internal defect of the aluminum cast product by using the gas analysis K.Itabashi, H.Takahashi 89. Effect of microstructure on mechanical property of 7075 aluminum alloy Y.Kitano, M.Noda, K.Funami 90. Effect of heating rate during solution treatment on morphology of eutectic Si particles of AC4CH casting alloys N.Saruwatari, Y.Nakayama, E.Sekiya 91. Casting of clad strips by roll casters M.Motomura, T.Haga, R.Nakamura, H.Tsuge, K.Kumai, S.Suzuki, H.Watari 92. Casting of Al-SiCp strip by twin roll caster T.Haga, Y.Yamasaki, S.Kumai, H.Watari 93. Heat transfer solidification analyses of twin roll castings of magnesium alloy T.Nagumo, M.Endou, S.Nishida, H.Watari 94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures Y.Kano, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of Al050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 79. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato	84 Influence of Ultrasonic Irradiation on Grain Refinement of Al Amassaksi Alloy
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87. Effect of strain and 0.5mass%Fe addition on the semi-solid microstructure of Al-Zn-Mg alloy A.Ohtani, H.Tezuka, E.Kobayashi, T.Sato 88. Evaluation of internal defect of the aluminum cast product by using the gas analysis K.Itabashi, H.Takahashi 89. Effect of microstructure on mechanical property of 7075 aluminum alloy Y.Kitano, M.Noda, K.Funami 90. Effect of heating rate during solution treatment on morphology of eutectic Si particles of AC4CH casting alloys N.Saruwatari, Y.Nakayama, E.Sekiya 91. Casting of clad strips by roll casters M.Motomura, T.Haga, R.Nakamura, H.Tsuge, K.Kumai, S.Suzuki, H.Watari 92. Casting of Al-SiCp strip by twin roll caster T.Haga, Y.Yamasaki, S.Kumai, H.Watari 93. Heat transfer solidification analyses of twin roll casting for magnesium alloy T.Nagumo, M.Endou, S.Nishida, H.Watari 94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures Y.Kano, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of Al050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 77. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	86. Refinement of Al-Fe-Si compound by addition of heterogeneous nucleus
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91. Casting of clad strips by roll casters M.Motomura, T.Haga, R.Nakamura, H.Tsuge, K.Kumai, S.Suzuki, H.Watari 92. Casting of Al-SiCp strip by twin roll caster T.Haga, Y.Yamasaki, S.Kumai, H.Watari 93. Heat transfer solidification analyses of twin roll casting for magnesium alloy T.Nagumo, M.Endou, S.Nishida, H.Watari 94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures Y.Kano, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of Al050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 97. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	Y.Kitano, M.Noda, K.Funami
M.Motomura, T.Haga, R.Nakamura, H.Tsuge, K.Kumai, S.Suzuki, H.Watari 92. Casting of Al-SiCp strip by twin roll caster T.Haga, Y.Yamasaki, S.Kumai, H.Watari 93. Heat transfer solidification analyses of twin roll casting for magnesium alloy T.Nagumo, M.Endou, S.Nishida, H.Watari 94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures Y.Kano, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 97. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	
92. Casting of Al-SiCp strip by twin roll caster T.Haga, Y.Yamasaki, S.Kumai, H.Watari 93. Heat transfer solidification analyses of twin roll casting for magnesium alloy T.Nagumo, M.Endou, S.Nishida, H.Watari 94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures Y.Kano, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 97. Microstructural control of A11070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	91. Casting of clad strips by roll casters M.Motomura, T.Haga, R.Nakamura, H.Tsuge, K.Kumai, S.Suzuki, H.Watari
93. Heat transfer solidification analyses of twin roll casting for magnesium alloy T.Nagumo, M.Endou, S.Nishida, H.Watari 94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures Y.Kano, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 97. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	92. Casting of Al-SiCn strip by twin roll caster
94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures Y.Kano, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 97. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	93. Heat transfer solidification analyses of twin roll casting for magnesium alloy
95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature Y.Takada, M.Furui, K.Terayama, S.Ikeno, S.Saikawa 96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 97. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	94. Aging behavior of Al-10%Si-Mg alloy sand castings under various demolding temperatures
96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum Y.Totani, K.Ueda, M.Yonemitsu, Y.Hosomi 97. Microstructural control of A11070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of A1 alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	95. Age hardening characteristics of Al-10%Si-Mg alloy permanent mold castings demolded at different temperature
97. Microstructural control of Al1070 by Rotary Bending and Tensile Loading T.Nishimura, Y.Enomoto, H.Sato 98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara	96. Effect of oiliness agent on wear particles in cold rolling of A1050 aluminum
98. Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending Y.Okude, S.Sakaki, S.Yoshihara [Cancellation] 99. Effect of Zn content on the bendability of Al-Zn-Mg alloys	97. Microstructural control of Al1070 by Rotary Bending and Tensile Loading
[Cancellation] 99 Effect of Zn content on the bendability of Al-Zn-Mg alloys	98 Deformation behavior of Al alloy asymmetric channel with various cross section on draw bending
	[Cancellation] 99 Effect of Zn content on the bendability of Al-Zn-Mg alloys

100. Boss forming simulation of AZ31 magnesium alloys Y.Kobayashi, S.Takahashi, E.Yukutake, S.Negishi
101. Research on defective generation mechanism and the improvement in impact extrusion for battery case in vehicle T.Watanabe, M.Motomura, A.Hagiwara, G.Konishi
102. Effect of the grain size on high strain rate blow forming of 5000 series aluminum alloy T.Kudou T.Kudou
103. Effect of modified cross sectional configuration of the micro groove arrays of tool surface by first extrusion run on surface roughness of aluminum product S.Kamitani, Y.Honda
104. Improvement of f ormability and 1 ubricant c haracteristics of r adial f low extrution p rocess for f orming aluminum c up Y.Iwasaki, K.Aida, M.Motomura, A.Harada
105. Image-based numerical analysis of the deformation behaviors of blister and micro-pores in a die-casting aluminum alloy P.Qu, H.Toda, S.Ito, M.Kobayashi, K.Uesugi
106. Damage behaviors of aluminum alloy in high temperature deformation Z.A.B.Shamsudin, H.Toda, M.Kobayashi, Y.Suzuki, A.Takeuchi, K.Uesugi
107. Compressive relaxation characteristics and the dominant mechanism of Al-Si die-cast alloy subjected to various heat-treatments Y.Kawakubo, S.Hirosawa, S.Hirawatari, H.Hosoi
108. Creep strength and deformation mechanism of high purity Al-Mn binary alloy with various grain sizes
109. Grain size dependenc y on creep behavior of ultra fine and coarse grained aluminum at low temperatures K.Ishiwata, T.Matsunaga, F.Terasawa, K.Arai, N.Kawai, E.Sato 110. Effect of tempering conditions and alloying elements on formability of 1000 series aluminum sheet
D.Kaneda, H.Umeda 111. Effect of pre-aging conditions on bendability of an Al-Mg-Si alloy
T.Nakamura, T.Masuda, Y.Takaki 112. Effect of extrusion shape on mechanical property of Al-Zn-Mg-Cu alloys
Y.Shinzato, T.Minoda, H.Yoshida 113. Effect of impact compression on age-hardening behavior of rapidly solidified Al-Zn-Mg alloys K.Horikawa, H.Kobayashi
114. Relationship between temperature and microstructure during friction stir welding of 1050Al/ 5052Al alloy K.Hotikawa, H.Kobayashi K.Hotikawa, H.Kobayashi K.Hotikawa, H.Kobayashi K.Kumai, Y.Akutsu, Y.Takayama, H.Watanabe
115. Dynamics properties during friction stir welding and mechanical properties of joint using a 6061 aluminum alloy Y.Matsumaru, M.Nomoto, K.Katoh
116. Metal flow and stir zone microsructure during friction stir welding of dissimilar joints T.Shibayanagi, Z.Di
117. Micro-tensile properties of friction stir welded A6061/SUS 304 grooved lap joint T.Ogura, T.Nishida, H.Nishida, S.Yoshikawa, M.Fujimoto, A.Hirose
118. Effect of tool shape on friction stir welding of 5052 aluminum alloy foil K.Aramomi, Y.Takayama, H.Watanabe
119. Microstructure and mechanical properties of dissimilar friction stir welds between AZ31 and AA6061-T6 plates Kwangjin Lee, Sanghyuk Kim, Keedo Woo
120. Dissimilar friction stir welding of non-combustible magnesium and aluminum alloy T.Hirata, T.Tanaka, T.Morishige, K.Kitazawa
121. Isothermal aging behavior and mechanical properties in Ti-Cr-V-4Al alloys Y.Takasaki, M.Ueda, M.Ikeda
122. Mechanical properties of biomedical Ti-29Nb-13Ta-4.6Zr alloy having micro-segregation M.Nakai, M.Niinomi, J.Hieda, K.Narita, K.Oribe
123. Effect of high-pressure torsion on microstructures and mechanical properties of biomedical β-type Ti-29Nb-13Ta-4.6Zr after aging treatment H.Yilmazer, M.Niinomi, M.Nakai, J.Hieda, Y.Todaka
124. Rotating bending fatigue property of titanium alloy with surface ultrafine-grained structure produce by wearing process
125. Rotary bending fatigue properties of Prestrained Titanium alloys
126. Design of βType Ti Alloys and their Shape-Memory Characteristics K.Matsugi, M.Nakata, T.Kashiwagi, Y.B.Choi, G.Sasaki
127. Effect of passivation potential on pitting resistance and concentration of bound water in passive film of Ti
128. Effect of citric acid addition on hydrothermal synthesis of ZrO ₂ included oxide films on Ti Substrates R.Kozakura, M.Ueda, M.Ikeda
129. Preparation of Hydroxyapatite coatings on Ti-29Nb-13Ta-4.6Zr alloy by MOCVD method and evaluation of biocompatibility J.Hieda, M.Niinomi, M.Nakai, K.Saito, T.Goto, T.Rong
130. Effect of cathodic potential on Ca film formation on Ti in Ca ²⁺ /ethanol solution containing a fixed amount of water A.Nonaka, T.Haruna
131. Fabrication and compression properties of A1050-ADC12 functionally graded porous aluminum K.Saito, Y.Hangai, T.Utsunomiya, O.Kuwazuru, N.Yoshikawa
132. Fabrication of porous aluminum core hollow material by applying friction technology M.saito, Y.Hangai

133	. Fabrication of porous aluminum without using blowing agent by FSP route and estimation of their mechanical properties H.Kamada, Y.Hangai, T.Utsunomiya, O.Kuwazuru, N.Yoshikawa
134	. Fabrication of ADC12 functionally graded porous aluminum without using blowing agent by using gases H.Kato, K.Takahashi, Y.Hangai, T.Utsunomiya, S.Kitahara, O.Kuwazuru, N.Yoshikawa
135	. Fabrication of the aluminum foam with high porosity from the aluminium sheets
136	. Fabrication of open cell porous aluminum without external heat by applying friction technology
137	Pore Morphology and Microstructure in Cell Walls of Aluminum Foam fabricated with Adding Mg and Bi Y.Nonaka, S.Suzuki, K.Suzuki, H.Nakae
138	. Simultaneous bonding between foamed precursor and pure Al plate Y.Okano, Y.Kume, M.Kobashi, N.Kanetake
139	. Mechanical and magnetic properties of Al/Fe ₃ O ₄ composites consolidated by high-pressure torsion R.Yonemoto, Z.Horita, M.Arita
140	. Consolidation of high strength aluminum alloy machined chip wastes and their mechanical properties R. Honcinoto, Z. Honta, M. Anta R. Morimoto, Y. Kume, M. Kobashi, N. Kanetake
141	. Al–Al2O3 nanocomposites produced by High-Pressure Torsion and Ball Milling M.Ashida, Z.Horita
142	Properties of aluminum based magnetic materials produced by compressive torsion processing G.Sogabe, Y.Kume, M.Kobashi, N.Kanetake
143	. Sintering mechanism and microstructure of VGCF/ aluminum composites by spark sinterin G.Sogabe, T.Kuine, M.Kobasii, N.Kalietake G.Sogabe, T.Kuine, M.Kobasii, N.Kalietake G.Sogabe, T.Kuine, M.Kobasii, N.Kalietake G.Sogabe, T.Kuine, M.Kobasii, N.Kalietake
144	Properties of Mg-CaO composite materials fabricated by mechanical alloying and spark plasma sintering process T.Hagino, M.Kubota
145	Production of Al-Ti Bulk Nanostructured Intermetallics and Nanocomposites by High-Pressure Torsion K.Edalati, S.Toh, Z.Horita
P01	Effect of purity and strain rate on indentation test in pure aluminum H.Yamada, Y.Shimizu, N.Ogasawara, K.Horikawa, H.Kobayashi
P02	Functionalization of nano-porous alumina membrane fabricated by anodic oxidation of Al metal with chemical surface modification K.Kakiage, M.Hanaya
P03	. Improvement of corrosion resistance on the surface layer of AZX magnesium alloys by phosphate electrolytic solution A.Saitou, T.Kenadani, K.Murakami, M.Hino, A.Saijyo
P04	. Laser joining of aluminum/plastic using insert materials
P05	. Effect of stacking fault energy on dislocation structures of new low-temperature creep in FCC Metals F.Terasawa, K.Ishiwatari, N.Kawai, E.Satou, T.Matsunaga
P06	. Oxide dispersion strengthening of biomedical β -type titanium alloy through rare-earth metal addition S.Nagai, M.Ninomi, J.Hieda, M.Nakai
P07	. Galvanic corrosion between high strength aluminum 2024 and carbon fiber reinforced plastic in NaCl solution M.Sakai, T.Wada
P08	. The effect of microstructure on stress corrosion cracking of AM60 magnesium alloy sheets N.Yamamoto, H.Okumura, S.Kamado
P09	. Improvement of strength and microstructure of Mg-Zn-Y alloy by rolling M.Noda, Y.Kawamura
P10	. Propose Aluminum Foam for Landing Gear of Smart Lander
P11	. Mechanical properties of 6061 aluminium alloy protrusion formed on SPCC steel sheet by friction welding K.Umejima, K.Katoh
P12	. Properties of aluminum-phosphorescence based composite materials fabricated by mechanical milling and spark plasma sintering Y.Watanabe, M.Kubota
P13	. Properties of age-hardened pure magnesium fabricated by mechanical milling and spark plasma sintering process T.Hagino, M.Kubota
P14	Estimation of compression properties of porous aluminum by X-ray CT image based modeling R.Yamaguchi, Y.Hangai, S.Takahashi, T.Utsunomiya, O.Kuwazuru, N.Yoshikawa
P15	Effect of intermetallic compound on strength of sandwich panel with porous aluminum/dense steel plate fabricated by friction stir processing route N.Ishii, Y.Hangai, S.Koyama, T.Utsunomiya, O.Kuwazuru, N.Yoshikawa
P16	Investigation of compressive deformation behavior of ADC12 functional graded porous aluminum by controlling pore structures K.Takahashi, H.Kato, Y.Hangai, T.Utsunomiya, S.Kitahara, O.Kuwazuru, N.Yoshikawa
P17	. Effect of deformation-induced phase on mechanical properties of Ti-Mo alloys for spinal fixation devices X.F.Zhao, M.Niinomi, M.Nakai, J.Hieda
P18	. AC2B aluminum alloy/SiC composite produced by semisolid slurry S.Kobayasi, T.Motegi, R.Yosida, R.Chiba, Y.Ishihara, S.Sasaki
P19	Development for material-circulation type recycling of aluminum T.Hiraki, T.Nagasaka
P20	. Fabrication of Al-Cu-Bi alloy foam with thickening effect of Mg
P21	Effects of fabrication conditions on pore morphology of Al-Mg-Bi alloy foam K.Suzuki, S.Suzuki, Y.Nonaka, H.Nakae K.Suzuki, S.Suzuki, Y.Nonaka, H.Nakae
	N.Suzuki, S.Suzuki, I.Nonaka, H.Nakae

P22. Effect of Zn content on maximum hardness of aged Mg-Zn alloys in different of quench process Y.Sakurai, R.Nakanishi, T.Kawabata, S.Ikeno, K.Matsuda
P23. Effect of transition metals addition on the age-hardening behavior of Al-Mg-Ge alloys K.Matsuura, T.Murakami, T.Kawabata, S.Ikeno, K.Matsuda
P24. Microstructural refinement along with consolidation of Al-Cu alloys by high-pressure torsion Y.Yonenaga, Z.Horita
P25. Texture analysis of surface layer subjected to friction roll surface processing and annealing in pure aluminum sheet R.Hamano, K.Nonaka, Y.Takayama, H.Watanabe
P26. Surface characteristics of an AZ31 magnesium alloy with ultra fain-grained layer Y.Ichihara, K.Funami, M.Noda
P27. Effect of intermetallic compound particles on the behavior of environmental hydrogen in aluminum G.Itoh, T.Watakabe, M.Nakano
P28. Fatigue characteristics of extruded Mg-Al-Ca-Mn alloy Y.Murayama, Y.Miyashita, S.Kamado, T.Honma, S.W.Xu, K.Ohishi
P29. Grain refinement and mechanical properties of Ti-29Nb-13Ta-4.6Zr for biomedical applications R.Kanekiyo, M.Niinomi, M.Nakai, J.Hieda, K.Narita
P30. Influence of microstructure on corrosion behavior of Mg-(Zn/Al)-Gd alloys M.Otani, M.Yamasaki, Y.Kawamura
P31. Effect of Zr Addition on Workability of Mg-Zn-Y-Zr Alloys with LPSO Phase S.Inoue, M.Yamasaki, Y.Kawamura
P32. Influence of LPSO phase volume fraction and extrusion ram speed on mechanical properties of Mg-Zn-Y alloys Y.Fukunaga, T.Mayama, M.Yamasaki, Y.Kawamura
P33. Influence of extrusion parameters on microstructure evolution and mechanical properties of Mg-Zn-Gd alloys with LPSO phase M.Hirano, M.Yamasaki, Y.Kawamura
P34. Ductility of Al-Zn eutectoid alloy sheets produced by hot-rolling NguyenLOCThe, G.Itoh, Y.Motohashi, T.Sakuma
P35. Analysis of grains deformation by 3-D orientation measurement and grain boundary particle tracking T.Kamiko, H.Toda, M.Kobayashi, D.J.Leclere, Y.Mizuseki, K.Uesugi
P36. Influence of Zn and Nd contents on the microstructure and mechanical properties of extruded Mg-Zn-Y-Nd alloys with LPSO phase J.H.Shin, J.H.Kim, M.Yamasaki, Y.Kawamura
P37. EBSD analysis of microstructural evolution after shear deformation and annealing in ultra high purity aluminum Y.Hoshina, Y.Takayama, H.Watanabe
P38. Effect of pre-strain rolling conditions on hot blow forming of heat treatable aluminium alloys S.Kaneko, D.Chiba, F.Fujita
P39. Thermal desorption spectroscopy study in a pure aluminum exposed to heavy water G.Itoh, M.Nakano, T.Watakabe
P40. Behavior of hydrogen in a 7075 aluminum alloy affected by second-phase particles G.Itoh, H.Hayase
P41. Annealing behavior of electrically conducting aluminum wires containing Zr
P42. Effect of friction stir processing conditions on age hardening after processing in 7075 aluminum alloy M.Takahashi, Y.Takayama, H.Watanabe, T.Shibayanagi
P43. Behavior analysis on the desorption of hydrogen in an Al-Mg alloy by means of hydrogen microprint technique G.Itoh, K.Saitoh, R.Koyama, T.Tsutsumi
P44. Control of dielectric properties and leakage current of crystalline anodic oxide films formed on aluminum T.Fukao, H.Asoh, S.Ono
P45. Effect of Ca addition on microstructures and mechanical properties of Mg-Gd-Zn-Zr alloys T.Saito, T.Ozaki, T.Homma, S.Kamado
P46. Effect of Mn addition on microstructures and high-temperature properties of extruded Mg-Gd-Y-Zn alloy R.Yoshimasu, Y.Hiramitsu, T.Koike, T.Homma, S.Kamado
P47. Dissimilar friction stir welding for AZ31 and AA6061-T6 plates Sanghyuk Kim, Kwangjin Lee, Keedo Woo