Uan Jun-Yen

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58
papers1,256
citations21
h-index33
g-index58
ext. papers1,425
ext. citations4.6
avg, IF4.65
L-index

#	Paper	IF	Citations
58	Formation of Mg,Al-hydrotalcite conversion coating on Mg alloy in aqueous HCO3/ICO32land corresponding protection against corrosion by the coating. <i>Corrosion Science</i> , 2009 , 51, 1181-1188	6.8	107
57	Generation of hydrogen from magnesium alloy scraps catalyzed by platinum-coated titanium net in NaCl aqueous solution. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2337-2343	6.7	77
56	Electrochemical behaviour and corrosion performance of Mg[liAlan anodes with high Al composition. Corrosion Science, 2009, 51, 2463-2472	6.8	71
55	Evolution of hydrogen from magnesium alloy scraps in citric acid-added seawater without catalyst. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6137-6142	6.7	56
54	Optically transparent LiAlCO3 layered double hydroxide thin films on an AZ31 Mg alloy formed by electrochemical deposition and their corrosion resistance in a dilute chloride environment. <i>Corrosion Science</i> , 2013 , 68, 238-248	6.8	54
53	Direct growth of oriented MgHe layered double hydroxide (LDH) on pure Mg substrates and in vitro corrosion and cell adhesion testing of LDH-coated Mg samples. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5011		53
52	Alloying modification of SnAgau solders by manganese and titanium. <i>Microelectronics Reliability</i> , 2009 , 49, 235-241	1.2	53
51	Direct growth of oriented MgAl layered double hydroxide film on Mg alloy in aqueous HCO3/ICO32/solution. <i>Journal of Materials Chemistry</i> , 2010 , 20, 761-766		50
50	Crystallization of a chemical conversion layer that forms on AZ91D magnesium alloy in carbonic acid. <i>Corrosion Science</i> , 2011 , 53, 3832-3839	6.8	49
49	Sacrificial Mg film anode for cathodic protection of die cast MgB wt.%All wt.%Zn alloy in NaCl aqueous solution. <i>Scripta Materialia</i> , 2006 , 54, 1253-1257	5.6	46
48	Effects of concentrations of NaCl and organic acid on generation of hydrogen from magnesium metal scrap. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3033-3040	6.7	41
47	Producing hydrogen in an aqueous NaCl solution by the hydrolysis of metallic couples of low-grade magnesium scrap and noble metal net. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 1677-1687	6.7	40
46	Rapid direct growth of LiAl layered double hydroxide (LDH) film on glass, silicon wafer and carbon cloth and characterization of LDH film on substrates. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1880-18	89	38
45	Evaluation of a New Hydrogen Generating System: Ni-Rich Magnesium Alloy Catalyzed by Platinum Wire in Sodium Chloride Solution. <i>Materials Transactions</i> , 2005 , 46, 2704-2708	1.3	33
44	Applications of carbonic acid solution for developing conversion coatings on Mg alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, 1331-1339	3.3	32
43	Mechanical characterization of friction stir spot microwelds. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1942-1948	5.3	27
42	Enhancement of corrosion resistance of Mg-9 wt.% Al-1 wt.% Zn alloy by a calcite (CaCO3) conversion hard coating. <i>Corrosion Science</i> , 2010 , 52, 1874-1878	6.8	25

41	Synthesis of LiAl-carbonate layered double hydroxide in a metal salt-free system. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6524		25
40	Converting hcp MgAlan alloy into bcc MgIIiAlan alloy by electrolytic deposition and diffusion of reduced lithium atoms in a molten salt electrolyte LiClaCl. <i>Scripta Materialia</i> , 2007 , 56, 597-600	5.6	25
39	Mg-Mg2X (X=Cu, Sn) eutectic alloy for the Mg2X nano-lamellar compounds to catalyze hydrolysis reaction for H2 generation and the recycling of pure X metals from the reaction wastes. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 489-498	5.7	24
38	Surface compositional inhomogeneity and subsurface microstructures in a thin-walled AZ91D plate formed by hot-chamber die casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 402, 193-202	5.3	22
37	Surface coatings for improving the corrosion resistance and cell adhesion of AZ91D magnesium alloy through environmentally clean methods. <i>Thin Solid Films</i> , 2010 , 518, 7563-7567	2.2	21
36	Correlating the microstructure of the die-chill skin and the corrosion properties for a hot-chamber die-cast AZ91D magnesium alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2245-2252	2.3	21
35	A nonrational B-spline profiled horn with high displacement amplification for ultrasonic welding. <i>Ultrasonics</i> , 2014 , 54, 2063-71	3.5	20
34	Surface modification of 5083 Al alloy by electrical discharge alloying processing with a 75mass% SiBe alloy electrode. <i>Applied Surface Science</i> , 2012 , 258, 4483-4488	6.7	20
33	Morphological and Microstructural Characterization of the Aragonitic CaCO3/Mg,Al-Hydrotalcite Coating on Mg-9 Wt Pct Al-1 Wt Pct Zn Alloy to Protect against Corrosion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 3233-3245	2.3	18
32	Precipitate evolution in underaged AlMgBi alloy during thermal cycling between 25 °C and 65 °C. <i>Materials Science & Materials Science & Microstructure and Processing</i> , 2006 , 419, 98-104	5.3	16
31	Synthesis, microstructure, and photocatalysis of In2O3 hollow particles. <i>Ceramics International</i> , 2011 , 37, 1775-1780	5.1	14
30	Production of an Mg/Mg2Ni lamellar composite for generating H2 and the recycling of the post-H2 generation residue to nickel powder. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13520-13528	6.7	13
29	Aqueous Li+/Al3+ alkaline solution for CO2 capture and the massive LiAlCO3 hydrotalcite precipitation during the interaction between CO2 gas and the Li+/Al3+ aqueous solution. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14773	13	12
28	Gallium-induced magnesium enrichment on grain boundary and the gallium effect on degradation of tensile properties of aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 2133-2145	2.3	12
27	Synthesis of Mg-Fe-Cl hydrotalcite-like nanoplatelets as an oral phosphate binder: evaluations of phosphorus intercalation activity and cellular cytotoxicity. <i>Scientific Reports</i> , 2016 , 6, 32458	4.9	11
26	Controllable luminescence of a LiAl layered double hydroxide used as a sensor for reversible sensing of carbonate. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11191-11206	7.1	10
25	Fabrication of AlLi and Al2Li3/Al4Li9 intermetallic compounds by molten salt electrolysis and their application for hydrogen generation from water. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13731-13736	6.7	9
24	Effect of annealing temperature on the microstructure and mechanical properties of an as-rolled Mg-9wt.%Li-3wt.%Al-1wt.%Zn alloy sheet. <i>Frontiers of Materials Science</i> , 2014 , 8, 271-280	2.5	8

23	Characterization and Improvement in the Corrosion Performance of a Hot-Chamber Diecast Mg Alloy Thin Plate by the Removal of Interdendritic Phases at the Die Chill Layer. <i>Metallurgical and</i> <i>Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 703-715	2.3	8
22	Preparation of a novel Pd/layered double hydroxide composite membrane for hydrogen filtration and characterization by thermal cycling. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13734-1374	6.7	7
21	Tensile strength and deformation microstructure of AlMgBi alloy sheet by through-width vibration rolling process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 296-300	5.3	7
20	Investigation of the photo-catalytic coating on AZ91 alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 467, 257-260	5.7	7
19	Formation and characterization of self-lubricated carbide layer on AA6082 AlMgBi aluminum alloy by electrical discharge alloying process. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 3205-3218	3.3	7
18	Microstructural and Corrosion Characteristics of Alloying Modified Layer on 5083 Al Alloy by Electrical Discharge Alloying Process with Pure Silicon Electrode. <i>Materials Transactions</i> , 2012 , 53, 1436-	- 1 442	6
17	Ductile-to-brittle transition for the aluminum alloy contacting to liquid gallium metal. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 146-149	5.7	6
16	Characterization of Gallium-induced Intergranular Fracture Surface and the Auger Electron Spectroscopic Analysis for Mg Grain Boundary Segregation in AA6061 T4 Al-Mg-Si Alloy. <i>Materials Transactions</i> , 2004 , 45, 1925-1932	1.3	6
15	Preparation of Mg–Li–Al–Zn Master Alloy in Air by Electrolytic Diffusing Method. <i>Materials Transactions</i> , 2005 , 46, 1354-1359	1.3	6
14	Converting waste magnesium scrap into anion-sorptionable nanomaterials: synthesis and characterization of an MgAltl hydrotalcite-like compound by hydrolysis and chemical conversion treatment in aqueous chloride solutions. <i>RSC Advances</i> , 2014 , 4, 57646-57657	3.7	5
13	Refractory filler sands with coreBhell composite structure for the taphole nozzle in slide-gate system of steel ladles. <i>Ceramics International</i> , 2012 , 38, 967-971	5.1	5
12	Microstructural and Corrosion Characteristics of Iron-Silicon Alloyed Layer on 5083 Al Alloy by Electrical Discharge Alloying Processing. <i>Materials Transactions</i> , 2011 , 52, 514-520	1.3	5
11	Solution-processed Li-Al layered-double-hydroxide platelet structures for high efficiency InGaN light emitting diodes. <i>Optics Express</i> , 2012 , 20 Suppl 5, A669-77	3.3	5
10	An insight into the vibration-assisted rolling of AA5052 aluminum alloy: Tensile strength, deformation microstructure, and texture evolution. <i>Materials Science & Discourse And Processing</i> , 2021, 803, 140489	5.3	5
9	Shear Bonding Strength and Thermal Cycling Effect of Fluoride Releasable/Rechargeable Orthodontic Adhesive Resins Containing LiAl-F Layered Double Hydroxide (LDH) Filler. <i>Materials</i> , 2019 , 12,	3.5	4
8	Preparation of bcc Mg-Li-Al-Zn Alloy by Electrolysis in Molten Salt LiCl-KCl and the Alloy® Electrochemical Performance as Anode Material for Magnesium Batteries. <i>Electrochemistry</i> , 2009 , 77, 604-607	1.2	3
7	Effect of Cooling Rate on Mg17Al12 Volume Fraction and Compositional Inhomogeneity in a Sand-Cast AZ91D Magnesium Plate. <i>Materials Transactions</i> , 2006 , 47, 2060-2067	1.3	3
6	MgAl phase in magnesium alloy waste facilitating the Ni reduction in nickel plating wastewater. Journal of Hazardous Materials, 2021, 403, 123556	12.8	3

LIST OF PUBLICATIONS

5	Uniform Equiaxed Grain Structure throughout Thickness of a Hot-Rolled 5083 Al-Mg-Mn Alloy Thick Plate after a Tempering Treatment at 350°C. <i>Materials Transactions</i> , 2007 , 48, 178-183	1.3	2
4	Deposition of Li/Al layered double hydroxides on the graphite felts for the performance improvement of an all-vanadium redox flow battery. <i>Materials Today Communications</i> , 2021 , 27, 102280	2.5	1
3	Ultrasonic spot welds of gas diffusion layer to proton exchange membrane of fuel cells. <i>Journal of Materials Processing Technology</i> , 2019 , 266, 208-216	5.3	1
2	Synthesis of Catalytic Ni/Cu Nanoparticles from Simulated Wastewater on LiAl Mixed Metal Oxides for a Two-Stage Catalytic Process in Ethanol Steam Reforming: Catalytic Performance and Coke Properties. <i>Catalysts</i> , 2021 , 11, 1124	4	1
1	Electrodeposition of a Li-Al Layered Double Hydroxide (LDH) on a Ball-like Aluminum Lathe Waste Strips in Structured Catalytic Applications: Preparation and Characterization of Ni-Based LDH Catalysts for Hydrogen Evolution. <i>Catalysts</i> , 2022 , 12, 520	4	0