

Uan Jun-Yen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4741208/uan-jun-yen-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

1,256
citations

21
h-index

33
g-index

58
ext. papers

1,425
ext. citations

4.6
avg, IF

4.65
L-index

#	Paper	IF	Citations
58	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
57	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
56	An insight into the vibration-assisted rolling of AA5052 aluminum alloy: Tensile strength, deformation microstructure, and texture evolution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140489	5.3	5
55	MgAl phase in magnesium alloy waste facilitating the Ni reduction in nickel plating wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123556	12.8	3
54	Synthesis of Catalytic Ni/Cu Nanoparticles from Simulated Wastewater on Li/Al 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
53	Shear Bonding Strength and Thermal Cycling Effect of Fluoride Releasable/Rechargeable Orthodontic Adhesive Resins Containing Li/Al-F Layered Double Hydroxide (LDH) Filler. <i>Materials</i> , 2019 , 12,	3.5	4
52	Controllable luminescence of a Li/Al 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
51	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
50	Mg-Mg ₂ X (X=Cu, Sn) eutectic alloy for the Mg ₂ X nano-lamellar compounds to catalyze hydrolysis reaction for H ₂ 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
49	Synthesis of Mg-Fe-Cl hydroxalcalite-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
48	Formation and characterization of self-lubricated carbide layer on AA6082 Al/Mg/Bi aluminum alloy by electrical discharge alloying process. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 3205-3218	3.3	7
47	A nonrational B-spline profiled horn with high displacement amplification for ultrasonic welding. <i>Ultrasonics</i> , 2014 , 54, 2063-71	3.5	20
46	Converting waste magnesium scrap into anion-sorptionable nanomaterials: synthesis and characterization of an Mg/Al/Cl hydroxalcalite-like compound by hydrolysis and chemical conversion treatment in aqueous chloride solutions. <i>RSC Advances</i> , 2014 , 4, 57646-57657	3.7	5
45	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
44	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, 13734-13741	6.7	7
43	Aqueous Li ⁺ /Al ³⁺ alkaline solution for CO ₂ capture and the massive Li/Al/CO ₃ hydroxalcalite precipitation during the interaction between CO ₂ gas and the Li ⁺ /Al ³⁺ aqueous solution. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14773	13	12
42	Production of an Mg/Mg ₂ Ni lamellar composite for generating H ₂ and the recycling of the post-H ₂ generation residue to nickel powder. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13520-13528	6.7	13

41	Optically transparent LiAlCO ₃ 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
40	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
39	Tensile strength and deformation microstructure of AlMgSi 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
38	Fabrication of AlLi and Al ₂ Li ₃ /Al ₄ Li ₉ 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
37	Refractory filler sands with core-shell composite structure for the taphole nozzle in slide-gate system of steel ladles. <i>Ceramics International</i> , 2012 , 38, 967-971	5.1	5
36	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
35	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
34	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, 1436-1442	1.3	6
33	Direct growth of oriented MgBe 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
32	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, 1880-1889		38
31	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
30	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
29	Synthesis, microstructure, and photocatalysis of In ₂ O ₃ hollow particles. <i>Ceramics International</i> , 2011 , 37, 1775-1780	5.1	14
28	Enhancement of corrosion resistance of Mg-9 wt.% Al-1 wt.% Zn alloy by a calcite (CaCO ₃) conversion hard coating. <i>Corrosion Science</i> , 2010 , 52, 1874-1878	6.8	25
27	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
26	Direct growth of oriented MgAl layered double hydroxide film on Mg alloy in aqueous HCO ₃ ⁻ /CO ₂ solution. <i>Journal of Materials Chemistry</i> , 2010 , 20, 761-766		50
25	Synthesis of LiAl-carbonate layered double hydroxide in a metal salt-free system. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6524		25
24	Mechanical characterization of friction stir spot microwelds. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 1942-1948	5.3	27

23	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
22	Alloying modification of Sn-Ag-Cu solders by manganese and titanium. <i>Microelectronics Reliability</i> , 2009 , 49, 235-241	1.2	53
21	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
20	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
19	Formation of Mg,Al-hydroxalcite conversion coating on Mg alloy in aqueous HCO ₃ ⁻ /CO ₃ ²⁻ and corresponding protection against corrosion by the coating. <i>Corrosion Science</i> , 2009 , 51, 1181-1188	6.8	107
18	Electrochemical behaviour and corrosion performance of Mg-Al-Zn anodes with high Al composition. <i>Corrosion Science</i> , 2009 , 51, 2463-2472	6.8	71
17	Investigation of the photo-catalytic coating on AZ91 alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 467, 257-260	5.7	7
16	Preparation of bcc Mg-Li-Al-Zn Alloy by Electrolysis in Molten Salt LiCl-KCl and the Alloy's Electrochemical Performance as Anode Material for Magnesium Batteries. <i>Electrochemistry</i> , 2009 , 77, 604-607	1.2	3
15	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
14	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 Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 703-715	2.3	8
13	Morphological and Microstructural Characterization of the Aragonitic CaCO ₃ /Mg,Al-Hydroxalcite 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
12	Converting hcp Mg-Al-Zn alloy into bcc Mg-Al-Zn alloy by electrolytic deposition and diffusion of reduced lithium atoms in a molten salt electrolyte LiCl-KCl. <i>Scripta Materialia</i> , 2007 , 56, 597-600	5.6	25
11	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
10	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
9	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
8	Sacrificial Mg film anode for cathodic protection of die cast Mg-9 wt.%Al-1 wt.%Zn alloy in NaCl aqueous solution. <i>Scripta Materialia</i> , 2006 , 54, 1253-1257	5.6	46
7	Effect of Cooling Rate on Mg-17Al-12 Volume Fraction and Compositional Inhomogeneity in a Sand-Cast AZ91D Magnesium Plate. <i>Materials Transactions</i> , 2006 , 47, 2060-2067	1.3	3
6	Precipitate evolution in underaged Al-Mg-Bi alloy during thermal cycling between 25 °C and 65 °C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 419, 98-104	5.3	16

5	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
4	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
3	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
2	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
1	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