

Ai-Li Wei

List of Publications by Year in descending order

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61
papers

1,499
citations

759233

12
h-index

330143

37
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62
all docs

62
docs citations

62
times ranked

1660
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoporous CaCO ₃ Coatings Enabled Uniform Zn Stripping/Plating for Long-Life Zinc Rechargeable Aqueous Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801090.	19.5	869
2	Bonding of Mg and Al with Mg-Al eutectic alloy and its application in aluminum coating on magnesium. <i>Journal of Alloys and Compounds</i> , 2009, 471, 408-411.	5.5	75
3	Improvement of corrosion resistance of pure magnesium via vacuum pack treatment. <i>Journal of Alloys and Compounds</i> , 2008, 461, 399-403.	5.5	70
4	Competition behavior of the strengthening effects in as-extruded AZ91 matrix: Influence of pre-existed Mg ₁₇ Al ₁₂ phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 656, 102-110.	5.6	43
5	The Microstructure, Texture and Mechanical Properties of the Rolled Al/Mg/Al Clad Sheets. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4695-4705.	2.5	23
6	Photocatalytic activity of Ag nanoparticle-dispersed N-TiO ₂ nanofilms prepared by magnetron sputtering. <i>RSC Advances</i> , 2015, 5, 57155-57163.	3.6	21
7	Characterization of the Microstructure, Mechanical Properties, and Corrosion Resistance of a Friction-Stir-Welded Joint of Hyper Duplex Stainless Steel. <i>Metals</i> , 2017, 7, 138.	2.3	21
8	Dynamic Recrystallization Behavior of Bimodal Size SiCp-Reinforced Mg Matrix Composite during Hot Deformation. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 527-537.	2.9	19
9	Analysis of hot deformation behavior and microstructure evolution of as-cast SiC nanoparticles reinforced magnesium matrix composite. <i>Journal of Materials Research</i> , 2016, 31, 3437-3447.	2.6	18
10	Effects of annealing temperature on the properties of copper films prepared by magnetron sputtering. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 92-96.	1.0	14
11	Microstructure and Tensile Properties of ECAPed Mg-9Al-1Si-1SiC Composites: The Influence of Initial Microstructures. <i>Materials</i> , 2018, 11, 136.	2.9	14
12	Binding property of Al/Mg/Al thin plates fabricated by one-pass hot rolling with different reduction ratios, temperatures and annealing treatments. <i>Rare Metals</i> , 2018, 37, 136-142.	7.1	13
13	Diffusion kinetics of gold in TiO ₂ nanotube arrays for formation of Au@TiO ₂ nanotube arrays. <i>RSC Advances</i> , 2016, 6, 48580-48588.	3.6	12
14	Preparation and enhanced daylight-induced photo-catalytic activity of transparent C-Doped TiO ₂ thin films. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 738-742.	1.0	11
15	Effect of thickness of interfacial intermetallic compound layers on the interfacial bond strength and the uniaxial tensile behaviour of 5052 Al/AZ31B Mg/5052 Al clad sheets. <i>RSC Advances</i> , 2015, 5, 104954-104959.	3.6	11
16	Influence of Al-Si additions on mechanical properties and corrosion resistance of Mg-8Li dual-phase alloys. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 426-429.	2.8	11
17	Compressive deformation behavior of an indirect-extruded Mg-8Sn-1Al-1Zn alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 49-56.	4.9	10
18	Study on Interface Characteristics of Al/Mg/Al Composite Plates Fabricated by Two-Pass Hot Rolling. <i>Materials Science Forum</i> , 0, 747-748, 346-351.	0.3	10

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19	One-Step Combustion Synthesis of CNTs Doped Fe ₂ O ₃ /C Nanocomposites as Electrode Materials for Supercapacitors. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 715-720.	2.1	10
20	Effect of Annealing on Microstructure and Tensile Properties of 5052/AZ31/5052 Clad Sheets. Jom, 2016, 68, 1282-1292.	1.9	10
21	Effect of ECAP temperature on precipitation and strengthening mechanisms of Mg-9Al-1Si alloys. Journal of Materials Research, 2018, 33, 1822-1829.	2.6	10
22	Effect of Anisotropy on Microstructures and Mechanical Properties of Rolled Ti/Al/Mg/Al/Ti Laminates. Journal of Materials Engineering and Performance, 2019, 28, 4143-4151.	2.5	10
23	Initiation and Suppression of Crack Propagation during Magnesium Alloy Rolling. Materials, 2021, 14, 5217.	2.9	10
24	Effect of Temperature Field and Stress Field of Different Crack Behavior on Twins and Dislocations under Mg Alloy Rolling. Materials, 2021, 14, 5668.	2.9	10
25	Texture Evolution of Single-Pass Hot-Rolled 5052/AZ31/5052 Clad Sheets. Jom, 2016, 68, 2274-2287.	1.9	9
26	High photocatalytic activity of Cu ₂ O/TiO ₂ /Pt composite films prepared by magnetron sputtering. Rare Metals, 2017, 36, 821-827.	7.1	9
27	Evolution of Texture and Mechanical Properties of Pure Mg Processed by ECAP at Room Temperature. Jom, 2017, 69, 2297-2301.	1.9	9
28	Cooling effects on microstructure and mechanical properties of 27Cr-4Mo-2Ni ferritic stainless steel. Materials Science and Technology, 2019, 35, 1212-1219.	1.6	9
29	Modification and refinement effects of Sb and Sr on Mg ₁₇ Al ₁₂ and Mg ₂ Si phases in Mg-12Al-0.7Si alloy. China Foundry, 2016, 13, 310-315.	1.4	8
30	Microstructure and Mechanical Properties of Pure Magnesium Subjected to Hot Extrusion. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 1193-1196.	1.0	8
31	Effect of Grain Size on the Precipitation Behaviour in Super-Ferritic Stainless Steels During a Long-Term Ageing. Acta Metallurgica Sinica (English Letters), 2021, 34, 1285-1295.	2.9	8
32	Microstructure evolution and mechanical properties of Mg-9Al-1Si-1SiC composites processed by multi-pass equal-channel angular pressing at various temperatures. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1966-1975.	4.9	8
33	Local Deformation and Texture of Cold-Rolled AA6061 Aluminum Alloy. Materials, 2018, 11, 1866.	2.9	7
34	A hierarchical porous architecture of silicon@TiO ₂ @carbon composite novel anode materials for high performance Li-ion batteries. New Journal of Chemistry, 2019, 43, 15342-15350.	2.8	7
35	Microstructural Evolution, Precipitation and Mechanical Properties of 27Cr-4Mo-2Ni Super-Ferritic Stainless Steels. Jom, 2019, 71, 4086-4095.	1.9	7
36	Microstructure and Mechanical Properties of a Medium-Mn Steel with 1.3 GPa-Strength and 40%-Ductility. Materials, 2021, 14, 2233.	2.9	7

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37	Electrochemical preparation and photoelectric properties of Cu ₂ O-loaded TiO ₂ nanotube arrays. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 23-28.	1.0	6
38	Significant Influence of Minor SiCp on Microstructure and Mechanical Properties of Pure Mg. Journal of Materials Engineering and Performance, 2020, 29, 1356-1365.	2.5	6
39	Microstructure and mechanical properties of ultrafine grained Mg ₁₅ Al alloy processed by equal-channel angular pressing. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 238-242.	1.0	5
40	Preparation and corrosion resistance of the micro-arc oxidation coating on Al ₂ O ₃ /ZL109 composites. Rare Metals, 2013, 32, 290-293.	7.1	5
41	Determining the Degree of [001] Preferred Growth of Ni(OH) ₂ Nanoplates. Nanomaterials, 2018, 8, 991.	4.1	5
42	Dependence of microstructure characteristics and mechanical properties on nanosize SiCp contents in Mg-9Al matrix composites fabricated by ultrasonic-assisted semisolid powder hot pressing. Journal of Materials Research, 2018, 33, 2689-2699.	2.6	5
43	New observations of the twinning effect and austenite stability in intercritical quenched and tempered steel with high strength. Journal of Materials Science, 2021, 56, 13801-13813.	3.7	5
44	Enhanced Visible Light Absorption in a Photocatalytic Thin Film from a Decoupled Photonic Crystal. Journal of the American Ceramic Society, 2008, 91, 2575-2580.	3.8	4
45	Effect of Aging on Precipitation Behavior and Pitting Corrosion Resistance of SAF2906 Super Duplex Stainless Steel. Journal of Materials Engineering and Performance, 2017, 26, 4533-4543.	2.5	4
46	Microstructure and Tensile Properties of n-SiCp/Mg-9%Al Composites Prepared by Ultrasonic Assisted Hot Pressing of Powder. Journal of Materials Engineering and Performance, 2017, 26, 1847-1855.	2.5	4
47	Synergistic Enhancement of the Strength-Ductility for Stir Casting SiCp/2024Al Composites by Two-Step Deformation. Metals and Materials International, 2021, 27, 5450-5461.	3.4	4
48	Investigation on Hydrogen Embrittlement Sensitivity of Hot-Rolled and Annealed Microstructure to AISI 430 Ferritic Stainless Steel. Journal of Materials Engineering and Performance, 2022, 31, 1728-1736.	2.5	4
49	Electronic band structures of TiO ₂ with heavy nitrogen doping. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 799-803.	1.0	3
50	Numerical simulation of absolute photonic band gaps for two-dimensional photonic crystals with the rotational square lattice. Optoelectronics Letters, 2010, 6, 359-362.	0.8	3
51	Flow stress and deformation behavior of fine-grained Mg matrix influenced by bimodal size SiCp. Journal of Materials Research, 2018, 33, 1723-1732.	2.6	3
52	Effect of ECAP on the microstructure and mechanical properties of a high-Mg ₂ Si content Al-Mg-Si alloy. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 395-398.	1.0	2
53	Microstructure, texture and tensile properties of Mg-10Sn alloys extruded in different conditions. Journal of Central South University, 2013, 20, 1786-1791.	3.0	2
54	Microstructure characterization and indentation hardness testing behavior of Mg-8Sn-xAl-1Zn alloys. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 1043-1048.	1.0	2

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55	Well-Aligned Au/TiO ₂ Nanorods by Magnetron Sputtering with Enhanced Photocatalytic Properties. Journal of Nanoscience and Nanotechnology, 2018, 18, 4397-4402.	0.9	2
56	Microstructural Stability and Mechanical Behavior of Pure Mg After One-Pass Equal Channel Angular Pressing Plus Intersection Annealing. Journal of Materials Engineering and Performance, 2021, 30, 2374-2380.	2.5	2
57	Volume calculation of the spur gear billet for cold precision forging with average circle method. International Journal of Coal Science and Technology, 2014, 1, 456-462.	6.0	1
58	The effect of high Al content on the microstructure and mechanical properties of Mg-xAl alloys processed by equal channel angular pressing. International Journal of Materials Research, 2017, 108, 45-52.	0.3	1
59	Upper-bound and finite element analyses of multi-row sprocket during cold semi-precision forging process. International Journal of Coal Science and Technology, 2015, 2, 245-253.	6.0	0
60	Effects of the Formation of Al x Cu y Gradient Interfaces on Mechanical Property of Steel/Al Laminated Sheets by Introducing Cu Binding-Sheets. Jom, 2015, 67, 1436-1442.	1.9	0
61	Mechanical Properties of Novel Hot-Rolled 9Mn Steel: The Significant Role of Austenite Morphology and Grain Size. Journal of Materials Engineering and Performance, 0, , 1.	2.5	0