

Ai-Li Wei

List of Publications by Year in descending order

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61
papers

1,499
citations

759233

12
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37
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docs citations

62
times ranked

1660
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on Hydrogen Embrittlement Sensitivity of Hot-Rolled and Annealed Microstructure to AISI 430 Ferritic Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 1728-1736.	2.5	4
2	Synergistic Enhancement of the Strength-Ductility for Stir Casting SiCp/2024Al Composites by Two-Step Deformation. <i>Metals and Materials International</i> , 2021, 27, 5450-5461.	3.4	4
3	Microstructural Stability and Mechanical Behavior of Pure Mg After One-Pass Equal Channel Angular Pressing Plus Intersection Annealing. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 2374-2380.	2.5	2
4	Effect of Grain Size on the Precipitation Behaviour in Super-Ferritic Stainless Steels During a Long-Term Ageing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1285-1295.	2.9	8
5	Microstructure and Mechanical Properties of a Medium-Mn Steel with 1.3 GPa-Strength and 40%-Ductility. <i>Materials</i> , 2021, 14, 2233.	2.9	7
6	New observations of the twinning effect and austenite stability in intercritical quenched and tempered steel with high strength. <i>Journal of Materials Science</i> , 2021, 56, 13801-13813.	3.7	5
7	Initiation and Suppression of Crack Propagation during Magnesium Alloy Rolling. <i>Materials</i> , 2021, 14, 5217.	2.9	10
8	Effect of Temperature Field and Stress Field of Different Crack Behavior on Twins and Dislocations under Mg Alloy Rolling. <i>Materials</i> , 2021, 14, 5668.	2.9	10
9	Microstructure evolution and mechanical properties of Mg-9Al-1Si-1SiC composites processed by multi-pass equal-channel angular pressing at various temperatures. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1966-1975.	4.9	8
10	Significant Influence of Minor SiCp on Microstructure and Mechanical Properties of Pure Mg. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1356-1365.	2.5	6
11	Effect of Anisotropy on Microstructures and Mechanical Properties of Rolled Ti/Al/Mg/Al/Ti Laminates. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4143-4151.	2.5	10
12	Microstructure and Mechanical Properties of Pure Magnesium Subjected to Hot Extrusion. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 1193-1196.	1.0	8
13	A hierarchical porous architecture of silicon@TiO ₂ @carbon composite novel anode materials for high performance Li-ion batteries. <i>New Journal of Chemistry</i> , 2019, 43, 15342-15350.	2.8	7
14	Cooling effects on microstructure and mechanical properties of 27Cr-4Mo-2Ni ferritic stainless steel. <i>Materials Science and Technology</i> , 2019, 35, 1212-1219.	1.6	9
15	Microstructural Evolution, Precipitation and Mechanical Properties of 27Cr-4Mo-2Ni Super-Ferritic Stainless Steels. <i>Jom</i> , 2019, 71, 4086-4095.	1.9	7
16	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
17	Determining the Degree of [001] Preferred Growth of Ni(OH) ₂ Nanoplates. <i>Nanomaterials</i> , 2018, 8, 991.	4.1	5
18	Local Deformation and Texture of Cold-Rolled AA6061 Aluminum Alloy. <i>Materials</i> , 2018, 11, 1866.	2.9	7

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19	Effect of ECAP temperature on precipitation and strengthening mechanisms of Mg-9Al-1Si alloys. <i>Journal of Materials Research</i> , 2018, 33, 1822-1829.	2.6	10
20	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
21	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
22	Dependence of microstructure characteristics and mechanical properties on nanosize SiCp contents in Mg-9Al matrix composites fabricated by ultrasonic-assisted semisolid powder hot pressing. <i>Journal of Materials Research</i> , 2018, 33, 2689-2699.	2.6	5
23	Flow stress and deformation behavior of fine-grained Mg matrix influenced by bimodal size SiCp. <i>Journal of Materials Research</i> , 2018, 33, 1723-1732.	2.6	3
24	Well-Aligned Au/TiO ₂ Nanorods by Magnetron Sputtering with Enhanced Photocatalytic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 4397-4402.	0.9	2
25	High photocatalytic activity of Cu ₂ O/TiO ₂ /Pt composite films prepared by magnetron sputtering. <i>Rare Metals</i> , 2017, 36, 821-827.	7.1	9
26	The effect of high Al content on the microstructure and mechanical properties of Mg-xAl alloys processed by equal channel angular pressing. <i>International Journal of Materials Research</i> , 2017, 108, 45-52.	0.3	1
27	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
28	Effect of Aging on Precipitation Behavior and Pitting Corrosion Resistance of SAF2906 Super Duplex Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 4533-4543.	2.5	4
29	Evolution of Texture and Mechanical Properties of Pure Mg Processed by ECAP at Room Temperature. <i>Jom</i> , 2017, 69, 2297-2301.	1.9	9
30	Microstructure and Tensile Properties of n-SiCp/Mg-9%Al Composites Prepared by Ultrasonic Assisted Hot Pressing of Powder. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1847-1855.	2.5	4
31	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
32	Texture Evolution of Single-Pass Hot-Rolled 5052/AZ31/5052 Clad Sheets. <i>Jom</i> , 2016, 68, 2274-2287.	1.9	9
33	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
34	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
35	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
36	Modification and refinement effects of Sb and Sr on Mg ₁₇ Al ₁₂ and Mg ₂ Si phases in Mg-12Al-0.7Si alloy. <i>China Foundry</i> , 2016, 13, 310-315.	1.4	8

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37	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
38	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
39	Effect of Annealing on Microstructure and Tensile Properties of 5052/AZ31/5052 Clad Sheets. <i>Jom</i> , 2016, 68, 1282-1292.	1.9	10
40	Upper-bound and finite element analyses of multi-row sprocket during cold semi-precision forging process. <i>International Journal of Coal Science and Technology</i> , 2015, 2, 245-253.	6.0	0
41	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
42	Microstructure characterization and indentation hardness testing behavior of Mg-8Sn-xAl-1Zn alloys. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 1043-1048.	1.0	2
43	One-Step Combustion Synthesis of CNTs Doped Fe ₂ O ₃ /C Nanocomposites as Electrode Materials for Supercapacitors. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 715-720.	2.1	10
44	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
45	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
46	Effects of the Formation of Al x Cu y Gradient Interfaces on Mechanical Property of Steel/Al Laminated Sheets by Introducing Cu Binding-Sheets. <i>Jom</i> , 2015, 67, 1436-1442.	1.9	0
47	Volume calculation of the spur gear billet for cold precision forging with average circle method. <i>International Journal of Coal Science and Technology</i> , 2014, 1, 456-462.	6.0	1
48	Electrochemical preparation and photoelectric properties of Cu ₂ O-loaded TiO ₂ nanotube arrays. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 23-28.	1.0	6
49	Preparation and corrosion resistance of the micro-arc oxidation coating on Al ₂ O ₃ /ZL109 composites. <i>Rare Metals</i> , 2013, 32, 290-293.	7.1	5
50	Microstructure, texture and tensile properties of Mg-10Sn alloys extruded in different conditions. <i>Journal of Central South University</i> , 2013, 20, 1786-1791.	3.0	2
51	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
52	Effect of ECAP on the microstructure and mechanical properties of a high-Mg ₂ Si content Al-Mg-Si alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 395-398.	1.0	2
53	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
54	Microstructure and mechanical properties of ultrafine grained Mg ₁₅ Al alloy processed by equal-channel angular pressing. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 238-242.	1.0	5

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55	Numerical simulation of absolute photonic band gaps for two-dimensional photonic crystals with the rotational square lattice. <i>Optoelectronics Letters</i> , 2010, 6, 359-362.	0.8	3
56	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
57	Electronic band structures of TiO ₂ with heavy nitrogen doping. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 799-803.	1.0	3
58	Enhanced Visible Light Absorption in a Photocatalytic Thin Film from a Decoupled Photonic Crystal. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2575-2580.	3.8	4
59	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
60	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
61	Mechanical Properties of Novel Hot-Rolled 9Mn Steel: The Significant Role of Austenite Morphology and Grain Size. <i>Journal of Materials Engineering and Performance</i> , 0, , 1.	2.5	0