

# Qiuyuan Xie

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,110  
citations

516710

16  
h-index

434195

31  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion behavior of equal-channel-angular-pressed pure magnesium in NaCl aqueous solution. <i>Corrosion Science</i> , 2010, 52, 481-490.	6.6	331
2	Effect of Main Parameters on the Mechanical and Wear Behaviour of Functionally Graded Materials by Centrifugal Casting: A Review. <i>Metals and Materials International</i> , 2019, 25, 1395-1409.	3.4	57
3	Review on the Influence of Different Reinforcements on the Microstructure and Wear Behavior of Functionally Graded Aluminum Matrix Composites by Centrifugal Casting. <i>Metals and Materials International</i> , 2020, 26, 933-960.	3.4	49
4	Dynamic precipitation behavior and mechanical property of an Mg94Y4Zn2 alloy prepared by multi-pass successive equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 682, 255-259.	5.6	47
5	A Critical Review of Mg-Based Hydrogen Storage Materials Processed by Equal Channel Angular Pressing. <i>Metals</i> , 2017, 7, 324.	2.3	45
6	Anticorrosion behavior of ultrafine-grained Al-26wt% Si alloy fabricated by ECAP. <i>Journal of Materials Science</i> , 2012, 47, 7744-7750.	3.7	35
7	Multimodal Microstructure and Mechanical Properties of AZ91 Mg Alloy Prepared by Equal Channel Angular Pressing plus Aging. <i>Metals</i> , 2018, 8, 763.	2.3	33
8	Slurry Erosion Behavior of AlxCoCrFeNiTi0.5 High-Entropy Alloy Coatings Fabricated by Laser Cladding. <i>Metals</i> , 2018, 8, 126.	2.3	31
9	Study of the microstructure and mechanical characteristics of AZ91SiCp composites fabricated by stir casting. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	31
10	Statistical Analysis of Dry Sliding Wear Process Parameters for AZ91 Alloy Processed by RD-ECAP Using Response Surface Methodology. <i>Metals and Materials International</i> , 2021, 27, 2879-2897.	3.4	25
11	Vertically-aligned Mn(OH)2 nanosheet films for flexible all-solid-state electrochemical supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17533-17540.	2.2	24
12	Preparation, Microstructure Evolutions, and Mechanical Property of an Ultra-Fine Grained Mg-10Gd-4Y-1.5Zn-0.5Zr Alloy. <i>Metals</i> , 2017, 7, 398.	2.3	23
13	Influence of gradient structure on wear characteristics of centrifugally cast functionally graded magnesium matrix composites for automotive applications. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	21
14	Grain Refinement and High-Performance of Equal-Channel Angular Pressed Cu-Mg Alloy for Electrical Contact Wire. <i>Metals</i> , 2014, 4, 586-596.	2.3	19
15	Effects of MgZr codoping on the photoelectrochemical properties of a Ta <sub>3</sub> N <sub>5</sub> semiconductor: a theoretical insight. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6966-6973.	10.3	19
16	Enhancement of Mechanical Properties and Rolling Formability in AZ91 Alloy by RD-ECAP Processing. <i>Materials</i> , 2019, 12, 3503.	2.9	18
17	Biodegradable Behaviors of Ultrafine-Grained ZE41A Magnesium Alloy in DMEM Solution. <i>Metals</i> , 2016, 6, 3.	2.3	16
18	Developing Improved Mechanical Property and Corrosion Resistance of Mg-9Li Alloy via Solid-Solution Treatment. <i>Metals</i> , 2019, 9, 920.	2.3	16

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19	Development of High-Performance Enamel Coating on Grey Iron by Low-Temperature Sintering. <i>Materials</i> , 2018, 11, 2183.	2.9	15
20	Recent Progress on Corrosion Behavior and Mechanism of Mg-RE Based Alloys with Long Period Stacking Ordered Structure. <i>Metals and Materials International</i> , 2020, 26, 551-563.	3.4	15
21	Effect of Synthesizing Temperature on Microstructure and Electrochemical Property of the Hydrothermal Conversion Coating on Mg-2Zn-0.5Mn-Ca-Ce Alloy. <i>Metals</i> , 2016, 6, 44.	2.3	14
22	Improving Strength and Ductility of a Mg-3.7Al-1.8Ca-0.4Mn Alloy with Refined and Dispersed Al <sub>2</sub> Ca Particles by Industrial-Scale ECAP Processing. <i>Metals</i> , 2019, 9, 767.	2.3	13
23	Microstructure and corrosion resistance of yellow MAO coatings. <i>Surface Engineering</i> , 2019, 35, 334-342.	2.2	13
24	Dynamic Compression Properties of an Ultrafine-Grained Al-26wt.% Si Alloy Fabricated by Equal-Channel Angular Pressing. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2016-2024.	2.5	12
25	Deformation Structure and Mechanical Properties of Pure Titanium Produced by Rotary-Die Equal-Channel Angular Pressing. <i>Metals</i> , 2017, 7, 297.	2.3	12
26	Stress Corrosion Cracking Behavior of Fine-Grained AZ61 Magnesium Alloys Processed by Equal-Channel Angular Pressing. <i>Metals</i> , 2017, 7, 343.	2.3	11
27	Coupling Effect of Porosity and Cell Size on the Deformation Behavior of Al Alloy Foam under Quasi-Static Compression. <i>Materials</i> , 2019, 12, 951.	2.9	11
28	Chemical bonding and Cu diffusion at the Cu/Ta <sub>2</sub> N interface: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13566-13573.	2.8	10
29	Investigation of Indenter-Size-Dependent Nanoplasticity of Silicon by Molecular Dynamics Simulation. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3039-3047.	4.3	10
30	Effects of Ba <sup>2+</sup> codoping on the photocatalytic activities of Ta <sub>3</sub> N <sub>5</sub> photocatalyst: a DFT study. <i>RSC Advances</i> , 2014, 4, 55615-55621.	3.6	9
31	High Mechanical Properties of AZ91 Mg Alloy Processed by Equal Channel Angular Pressing and Rolling. <i>Metals</i> , 2019, 9, 386.	2.3	9
32	Development of a High Strength Mg-9Li Alloy via Multi-Pass ECAP and Post-Rolling. <i>Metals</i> , 2019, 9, 1008.	2.3	9
33	Effects of microstructure evolution on discharge properties of AZ31 alloy as anode for seawater battery. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 1462-1472.	1.5	9
34	Theoretical study on the surface stabilities, electronic structures and water adsorption behavior of the Ta <sub>3</sub> N <sub>5</sub> (110) surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7938-7945.	2.8	8
35	Effect of chromium micro-alloying on the corrosion behavior of a low-carbon steel rebar in simulated concrete pore solutions. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 1453-1463.	1.0	8
36	Decreasing Bio-Degradation Rate of the Hydrothermal-Synthesizing Coated Mg Alloy via Pre-Solid-Solution Treatment. <i>Materials</i> , 2017, 10, 858.	2.9	8

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37	Dry Sliding Wear Behavior of AZ91 Alloy Processed by Rotary-Die Equal Channel Angular Pressing. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3961-3973.	2.5	8
38	Formation and Corrosion Resistance of Micro-Arc Oxidation Coating on Equal-Channel Angular Pressed AZ91D Mg Alloy. <i>Metals</i> , 2016, 6, 308.	2.3	7
39	Development of High-Performance SiCp/Al-Si Composites by Equal Channel Angular Pressing. <i>Metals</i> , 2018, 8, 738.	2.3	7
40	Promoted Anodizing Reaction and Enhanced Coating Performance of Al-11Si Alloy: The Role of an Equal-Channel-Angular-Pressed Substrate. <i>Materials</i> , 2019, 12, 3255.	2.9	7
41	Enhanced Impact Toughness at Ambient Temperatures of Ultrafine-Grained Al-26wt.% Si Alloy Produced by Equal-Channel Angular Pressing. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 2131-2137.	2.5	6
42	Optimization of the Experimental Parameters Affecting the Corrosion Behavior for Mg-Y-Zn-Mn Alloy via Response Surface Methodology. <i>Metals and Materials International</i> , 0, , 1.	3.4	6
43	Dual-Layer Corrosion-Resistant Conversion Coatings on Mg-9Li Alloy via Hydrothermal Synthesis in Deionized Water. <i>Metals</i> , 2021, 11, 1396.	2.3	6
44	Fabrication of cellular Mg alloy by gas release reaction via powder metallurgical approach. <i>Metal Powder Report</i> , 2017, 72, 124-127.	0.1	5
45	Comparative Study of Two Aging Treatments on Microstructure and Mechanical Properties of an Ultra-Fine Grained Mg-10Y-6Gd-1.5Zn-0.5Zr Alloy. <i>Metals</i> , 2018, 8, 658.	2.3	5
46	Effect of Surface Nanocrystallization on Corrosion Resistance of the Conformed Cu-0.4%Mg Alloy in NaCl Solution. <i>Metals</i> , 2018, 8, 765.	2.3	4
47	Wear Behavior of the Multiheterostructured AZ91 Mg Alloy Prepared by ECAP and Aging. <i>Scanning</i> , 2020, 2020, 1-10.	1.5	4
48	Improved discharge performance of equal-channel-angular-pressed AZ61-In alloys as anodes for seawater-activated batteries. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161809.	5.5	4
49	Cooperative Effect of Li Content and Equal-Channel Angular Pressing on Microstructure and Mechanical Properties of Al-Mg-Li Alloy. <i>Metals</i> , 2019, 9, 840.	2.3	3
50	InGaN metal-insulator-semiconductor photodetector using Al <sub>2</sub> O <sub>3</sub> as the insulator. <i>Science China Technological Sciences</i> , 2013, 56, 633-636.	4.0	2