

Hui Yu

List of Publications by Year in descending order

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40
papers

1,100
citations

516710

16
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

687
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of cerium addition on the microstructure, mechanical properties and hot workability of ZK60 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 798-807.	5.6	220
2	Development of extraordinary high-strength Mg-8Al-0.5Zn alloy via a low temperature and slow speed extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 610, 445-449.	5.6	162
3	Effects of extrusion speed on the microstructure and mechanical properties of ZK60 alloys with and without 1wt% cerium addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 583, 25-35.	5.6	87
4	Recent Progress and Development in Extrusion of Rare Earth Free Mg Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 145-168.	2.9	74
5	Microstructural evolution of indirect-extruded ZK60 alloy by adding Ce. <i>Journal of Alloys and Compounds</i> , 2012, 545, 139-143.	5.5	65
6	Microstructure and mechanical properties of an extruded Mg-8Bi-1Al-1Zn (wt%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 80-87.	5.6	49
7	Strengthening Effect of Extruded Mg-8Sn-2Zn-2Al Alloy: Influence of Micro and Nano-Size Mg ₂ Sn Precipitates. <i>Materials</i> , 2017, 10, 822.	2.9	41
8	AZ61 and AZ61-La Alloys as Anodes for Mg-Air Battery. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2006-2016.	2.5	39
9	Die angle dependency of microstructural inhomogeneity in an indirect-extruded AZ31 magnesium alloy. <i>Journal of Materials Processing Technology</i> , 2015, 224, 181-188.	6.3	32
10	A high-ductility extruded Mg-Bi-Ca alloy. <i>Materials Letters</i> , 2020, 261, 127066.	2.6	31
11	Microstructural evolution and mechanical properties of binary Mg-xBi (x=2, 5, and 8 wt%) alloys. <i>Journal of Magnesium and Alloys</i> , 2020, 9, 983-983.	11.9	29
12	Dealloying of Cu-Based Metallic Glasses in Acidic Solutions: Products and Energy Storage Applications. <i>Nanomaterials</i> , 2015, 5, 697-721.	4.1	28
13	One-step synthesis of CuO@brass foil by dealloying method for low-cost flexible supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9206-9215.	2.2	23
14	Sn modified nanoporous Ge for improved lithium storage performance. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 563-572.	9.4	23
15	Hot deformation behavior and processing maps of Mg-Zn-Cu-Zr magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 756-764.	4.2	21
16	Thermally stable and strong bulk Mg-MgO in situ nanocomposites by reactive cryomilling and high-pressure consolidation. <i>Journal of Materials Science</i> , 2018, 53, 6613-6625.	3.7	18
17	Significant Improvement in Extrudability of Mg-9Al-0.8Zn-0.9Ca-0.6Y Alloy Through Mischmetal Addition. <i>Metals and Materials International</i> , 2021, 27, 514-521.	3.4	18
18	Biodegradable Mg-Zn-Ca-Based Metallic Glasses. <i>Materials</i> , 2022, 15, 2172.	2.9	15

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19	Correlation between microstructure and tensile properties in powder metallurgy AZ91 alloys. <i>Materials Letters</i> , 2011, 65, 2686-2689.	2.6	14
20	Study on Dual Modification of Al-17%Si Alloys by Structural Heredity. <i>Metals</i> , 2015, 5, 1112-1126.	2.3	14
21	Sintering process and high temperature stability investigation for nano-scale CaB ₆ materials. <i>Ceramics International</i> , 2010, 36, 2253-2257.	4.8	9
22	Microstructural Evolution of Rapidly Solidified ZK60 Powders during Extrusion. <i>Journal of Materials Science and Technology</i> , 2011, 27, 159-164.	10.7	9
23	Dynamic recrystallization behavior and strengthening mechanism of quasi-precipitate-free dilute Mg-Bi-Sn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 850, 143553.	5.6	9
24	A Comprehensive Study of Dynamic Recrystallization Behavior of Mg Alloy with 3 wt.% Bi Addition. <i>Metals</i> , 2021, 11, 838.	2.3	8
25	Growth and magnetostriction of oriented polycrystalline Pr _{0.15} Tb _x Dy _{0.85-x} Fe ₂ (x=0-0.85). <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2696-2698.	2.1	7
26	Anisotropic compressive behavior of extruded Mg alloy plates with different width-thickness ratios. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 11-18.	5.6	7
27	Mechanical Properties and Degradation Behavior of Mg(100-7x)Zn6xYx (x = 0.2, 0.4, 0.6, 0.8) Alloys. <i>Metals</i> , 2018, 8, 261.	2.3	7
28	Stearic Acid Coated MgO Nanoplate Arrays as Effective Hydrophobic Films for Improving Corrosion Resistance of Mg-Based Metallic Glasses. <i>Nanomaterials</i> , 2020, 10, 947.	4.1	6
29	Microstructure, Mechanical and Corrosion Properties of Mg-1.61Al-1.76Ca Alloy under Different Extrusion Temperatures. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 672-680.	2.5	6
30	Surface Morphologies and Mechanical Properties of Mg-Zn-Ca Amorphous Alloys under Chemistry-Mechanics Interactive Environments. <i>Metals</i> , 2019, 9, 327.	2.3	5
31	Enhancing the Mechanical Properties of AZ80 Alloy by Combining Extrusion and Three Pass Calibre Rolling. <i>Metals</i> , 2020, 10, 249.	2.3	5
32	A New Ultra-High-Strength AB83 Alloy by Combining Extrusion and Caliber Rolling. <i>Materials</i> , 2020, 13, 709.	2.9	3
33	Effect of Multi-Pass Caliber Rolling on Dilute Extruded Mg-Bi-Ca Alloy. <i>Metals</i> , 2020, 10, 332.	2.3	3
34	Exceptional thermal stability of ultrafine-grained long-period stacking ordered Mg alloy. <i>Rare Metals</i> , 2022, 41, 1537-1542.	7.1	3
35	A Novel In Situ (Al ₃ Ni + Al ₃ Ti)/Al Composite Inoculant and Its Effects on the Microstructure, Damping and Mechanical Properties of Zn-Al Eutectoid Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 2099-2115.	2.2	3
36	EFFECTS OF ADDITIONAL ELEMENTS ON THE EVOLUTION OF SECOND PHASES IN 9-12% Cr STEEL AND RESULTING MECHANICAL PROPERTIES. <i>International Journal of Modern Physics B</i> , 2009, 23, 1141-1147.	2.0	2

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37	Microstructural Evolution and Mechanical Properties of Pure Aluminum upon Multi-Pass Caliber Rolling. <i>Materials</i> , 2022, 15, 1206.	2.9	2
38	Effect of 1wt%Zn Addition on Microstructure and Mechanical Properties of Mg-6Er Alloys under High Strain Rates. <i>Metals</i> , 2022, 12, 883.	2.3	2
39	Microstructural Evolution and Resulting Mechanical Properties of Weld Joints upon Flux Cored Arc Welding and Post-Weld Heat Treatment. <i>Defect and Diffusion Forum</i> , 0, 283-286, 439-446.	0.4	1
40	Corrosion Behavior of Gravity Cast and High-Pressure Die-Cast AM60 Mg Alloys with Ca and Y Addition. <i>Metals</i> , 2022, 12, 495.	2.3	0