Zhimin Yin

List of Publications by Year in Descending Order

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

1,696 41 47 21 h-index g-index citations papers 1,936 4.79 47 4.3 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
47	On the role of Sc or Er micro-alloying in the microstructure evolution of Al-Mg alloy sheets during annealing. <i>Materials Characterization</i> , 2019 , 157, 109918	3.9	16
46	Effect of ageing treatment on fatigue crack growth of die forged Al-5.87Zn-2.07Mg-2.42Cu alloy. <i>Engineering Fracture Mechanics</i> , 2019 , 215, 251-260	4.2	11
45	Influence of equal channel angular pressing on the evolution of microstructures, aging behavior and mechanical properties of as-quenched Al-6.6Zn-1.25Mg alloy. <i>Materials Characterization</i> , 2019 , 153, 1-13	3.9	14
44	Microstructure and Mechanical Behavior of Friction Stir-Welded Sc-Modified Al-Zn-Mg Alloys Made Using Different Base Metal Tempers. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 916-9	92 5 .6	13
43	Effects of Quench Rate on Mechanical Properties and Microstructures of High-Strength 7046A Aluminum Alloy. <i>Jom</i> , 2019 , 71, 1722-1730	2.1	7
42	Effect of Precipitate State on Mechanical Properties, Corrosion Behavior, and Microstructures of AlಔnMgtu Alloy. <i>Metals and Materials International</i> , 2018 , 24, 1046-1057	2.4	15
41	Mechanical Properties and Microstructure of an Al-Zn-Mg-Sc-Zr Alloy Processed by Warm Equal Channel Angular Pressing and Subsequent Aging. <i>Jom</i> , 2018 , 70, 2684-2691	2.1	5
40	Precipitate behavior and mechanical properties of enhanced solution treated Al-Zn-Mg-Cu alloy during non-isothermal ageing. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 964-974	5.7	38
39	Mechanical properties, corrosion behavior and microstructures of a non-isothermal ageing treated Al-Zn-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 688, 146-154	5.3	90
38	Research on constitutive models and hot workability of as-homogenized Al-Zn-Mg-Cu alloy during isothermal compression. <i>Metals and Materials International</i> , 2017 , 23, 591-602	2.4	9
37	Excellent high strain rate superplasticity of Al-Mg-Sc-Zr alloy sheet produced by an improved asymmetrical rolling process. <i>Journal of Alloys and Compounds</i> , 2017 , 715, 311-321	5.7	16
36	Nano-structure evolution of secondary Al3(Sc1\(\mathbb{Z}\)Trx) particles during superplastic deformation and their effects on deformation mechanism in Al-Zn-Mg alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 142-153	5.7	21
35	Study on Hot Workability of Al-5.87Zn-2.07Mg-2.28Cu Alloy Using Processing Map. <i>Jom</i> , 2017 , 69, 725-	73231	4
34	Achieving high strain rate superplasticity of an Al-Mg-Sc-Zr alloy by a new asymmetrical rolling technology. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 672, 98-107	5.3	32
33	Mechanical Properties, Corrosion Behavior, and Microstructures of a MIG-Welded 7020 Al Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1028-1040	1.6	11
32	Effects of solution treatment on microstructural and mechanical properties of Al᠒nMg alloy by microalloying with Sc and Zr. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 553-564	5.7	48
31	Microstructure and mechanical properties of 7005 aluminum alloy processed by room temperature ECAP and subsequent annealing. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 518-529	5.7	53

30	Mechanical Properties and Microstructure of TIG and FSW Joints of a New Al-Mg-Mn-Sc-Zr Alloy. Journal of Materials Engineering and Performance, 2016 , 25, 1249-1256	1.6	9
29	Synergetic effects of Sc and Zr microalloying and heat treatment on mechanical properties and exfoliation corrosion behavior of Al-Mg-Mn alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 666, 61-71	5.3	33
28	Microstructure, mechanical properties and stress corrosion cracking of AlanMgar alloy sheet with trace amount of Sc. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 805-820	5.7	34
27	Effects of Sc and Zr on mechanical property and microstructure of tungsten inert gas and friction stir welded aerospace high strength Al᠒nMg alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 500-513	5.3	45
26	Achieving high superplasticity of a traditional thermalThechanical processed non-superplastic AlZnMg alloy sheet by low Sc additions. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 364-373	5.7	18
25	Stress corrosion cracking of a high-strength friction-stir-welded joint of an AlanMgar alloy containing 0.25 wt.% Sc. <i>Corrosion Science</i> , 2015 , 100, 57-72	6.8	38
24	Achieving high superplasticity of a new AlMgBcIr alloy sheet prepared by a simple thermalThechanical process. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2015 , 647, 333-343	5.3	21
23	Corrosion behaviour and mechanism of new aerospace Al᠒nMg alloy friction stir welded joints and the effects of secondary Al 3 Sc x Zr 1lk nanoparticles. <i>Corrosion Science</i> , 2015 , 90, 359-374	6.8	49
22	Microstructures and mechanical properties of Gas Tungsten Arc Welded joints of new AlMgBc and AlMgBr alloy plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2015 , 620, 149-154	5.3	11
21	Effect of minor Sc on microstructure and mechanical properties of AlanMgar alloy metalihert gas welds. <i>Journal of Alloys and Compounds</i> , 2015 , 629, 197-207	5.7	27
20	Tungsten Inert Gas and Friction Stir Welding Characteristics of 4-mm-Thick 2219-T87 Plates at Room Temperature and 🗓 96 °C. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2149-2158	1.6	16
19	Microstructural evolution and constitutive relationship of Al\(\mathbb{I}\)In\(\mathbb{M}\)g alloy containing small amount of Sc and Zr during hot deformation based on Arrhenius-type and artificial neural network models. Journal of Alloys and Compounds, 2014, 584, 406-416	5.7	62
18	Microstructures and properties of AlanMgMn alloy with trace amounts of Sc and Zr. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 616, 219-228	5.3	55
17	Characterization of hot deformation behavior of as-homogenized AltuliBct alloy using processing maps. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 199-206	5.3	80
16	Microstructure and Properties of TIG/FSW Welded Joints of a New Al-Zn-Mg-Sc-Zr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 2723-2729	1.6	15
15	Effects of Sc and Zr microalloying additions on the recrystallization texture and mechanism of AllanMg alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 412-426	5.7	53
14	Intermetallic phase evolution of 7050 aluminum alloy during homogenization. <i>Intermetallics</i> , 2012 , 26, 114-121	3.5	97
13	Evolution of microstructure and properties in a new type 2mm AlanMgBcar alloy sheet. <i>Journal of Alloys and Compounds</i> , 2012 , 517, 118-126	5.7	37

12	Effects of Sc and Zr microalloying additions on the microstructure and mechanical properties of new AlanMg alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 530, 71-80	5.7	113
11	Effects of Sc and Zr microalloying additions and aging time at 120°C on the corrosion behaviour of an AlanMg alloy. <i>Corrosion Science</i> , 2012 , 65, 288-298	6.8	133
10	Comparison study of single direction and friction assisted compaction of multiple alloy powders by finite element simulation. <i>Powder Metallurgy and Metal Ceramics</i> , 2012 , 50, 586-595	0.8	
9	Hot deformation behavior and microstructural evolution of homogenized 7050 aluminum alloy during compression at elevated temperature. <i>Materials Science & Dine Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1780-1786	5.3	115
8	Microstructure and Property of Ni76Cr19AlTi Side in Inertia Friction Weld Joint of the Superalloy Ni76Cr19AlTi and the Martensite Stainless Steel 4Cr10Si2Mo. <i>ISIJ International</i> , 2010 , 50, 1666-1670	1.7	4
7	Preparation, microstructure and properties of Al-Zn-Mg-Sc alloy tubes. <i>Journal of Rare Earths</i> , 2010 , 28, 641-646	3.7	20
6	Structure and performance of TiC-containing diamond-like carbon nanocomposite coatings deposited by rectangular cathodic arc ion-plating. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 383-386	1	
5	First-principles study on the lattice stability of elemental Co, Rh, and Ir in the VIIIB group. <i>Rare Metals</i> , 2009 , 28, 212-220	5.5	3
4	Microstructural evolution in 4Cr10Si2Mo at the 4Cr10Si2Mo/Nimonic 80A weld joint by inertia friction welding. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 341-347	5.7	16
3	High cycle fatigue characteristics of 2124-T851 aluminum alloy. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 168-172		4
2	Biomimetic strengthening polylactide scaffold materials for bone tissue engineering. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007 , 2, 27-30		3
1	Effect of minor Sc and Zr on the microstructure and mechanical properties of AlMg based alloys. Materials Science & Description of the microstructure and Processing 2000, 280, 151-155	5.3	182