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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.

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

#	Paper	IF	Citations
47	Effect of minor Sc and Zr on the microstructure and mechanical properties of AlMg based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 280, 151-155	5.3	182
46	Effects of Sc and Zr microalloying additions and aging time at 120°C on the corrosion behaviour of an AlZnMg alloy. <i>Corrosion Science</i> , 2012 , 65, 288-298	6.8	133
45	Hot deformation behavior and microstructural evolution of homogenized 7050 aluminum alloy during compression at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1780-1786	5.3	115
44	Effects of Sc and Zr microalloying additions on the microstructure and mechanical properties of new AlZnMg alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 530, 71-80	5.7	113
43	Intermetallic phase evolution of 7050 aluminum alloy during homogenization. <i>Intermetallics</i> , 2012 , 26, 114-121	3.5	97
42	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
41	Characterization of hot deformation behavior of as-homogenized AlCuLiScZr alloy using processing maps. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 199-206	5.3	80
40	Microstructural evolution and constitutive relationship of AlZnMg alloy containing small amount of Sc and Zr during hot deformation based on Arrhenius-type and artificial neural network models. <i>Journal of Alloys and Compounds</i> , 2014 , 584, 406-416	5.7	62
39	Microstructures and properties of AlZnMgMn alloy with trace amounts of Sc and Zr. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 616, 219-228	5.3	55
38	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
37	Effects of Sc and Zr microalloying additions on the recrystallization texture and mechanism of AlZnMg alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 412-426	5.7	53
36	Corrosion behaviour and mechanism of new aerospace AlZnMg alloy friction stir welded joints and the effects of secondary Al ₃ Sc x Zr ₁₀ nanoparticles. <i>Corrosion Science</i> , 2015 , 90, 359-374	6.8	49
35	Effects of solution treatment on microstructural and mechanical properties of AlZnMg alloy by microalloying with Sc and Zr. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 553-564	5.7	48
34	Effects of Sc and Zr on mechanical property and microstructure of tungsten inert gas and friction stir welded aerospace high strength AlZnMg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 500-513	5.3	45
33	Stress corrosion cracking of a high-strength friction-stir-welded joint of an AlZnMgZr alloy containing 0.25 wt.% Sc. <i>Corrosion Science</i> , 2015 , 100, 57-72	6.8	38
32	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
31	Evolution of microstructure and properties in a new type 2mm AlZnMgScZr alloy sheet. <i>Journal of Alloys and Compounds</i> , 2012 , 517, 118-126	5.7	37

30	Microstructure, mechanical properties and stress corrosion cracking of Al ₇₀ Zn ₂₀ Mg ₁₀ alloy sheet with trace amount of Sc. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 805-820	5.7	34
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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 666, 61-71	5.3	33
28	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
27	Effect of minor Sc on microstructure and mechanical properties of Al ₇₀ Zn ₂₀ Mg ₁₀ alloy metal inert gas welds. <i>Journal of Alloys and Compounds</i> , 2015 , 629, 197-207	5.7	27
26	Achieving high superplasticity of a new Al ₇₀ Mg ₂₀ Sc ₁₀ alloy sheet prepared by a simple thermal-mechanical process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 647, 333-343	5.3	21
25	Nano-structure evolution of secondary Al ₃ (Sc _{1-x} Zr _x) 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
24	Preparation, microstructure and properties of Al-Zn-Mg-Sc alloy tubes. <i>Journal of Rare Earths</i> , 2010 , 28, 641-646	3.7	20
23	Achieving high superplasticity of a traditional thermal-mechanical processed non-superplastic Al ₇₀ Zn ₂₀ Mg alloy sheet by low Sc additions. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 364-373	5.7	18
22	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
21	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
20	Tungsten Inert Gas and Friction Stir Welding Characteristics of 4-mm-Thick 2219-T87 Plates at Room Temperature and 196 °C. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2149-2158	1.6	16
19	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
18	Effect of Precipitate State on Mechanical Properties, Corrosion Behavior, and Microstructures of Al ₇₀ Zn ₂₀ Mg ₁₀ Cu Alloy. <i>Metals and Materials International</i> , 2018 , 24, 1046-1057	2.4	15
17	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
16	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
15	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, 916-925	1.6	13
14	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
13	Microstructures and mechanical properties of Gas Tungsten Arc Welded joints of new Al ₇₀ Mg ₂₀ Sc and Al ₇₀ Mg ₂₀ Er alloy plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 620, 149-154	5.3	11

12	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
11	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
10	Mechanical Properties and Microstructure of TIG and FSW Joints of a New Al-Mg-Mn-Sc-Zr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1249-1256	1.6	9
9	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
8	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
7	Study on Hot Workability of Al-5.87Zn-2.07Mg-2.28Cu Alloy Using Processing Map. <i>Jom</i> , 2017 , 69, 725-733	3.1	4
6	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
5	High cycle fatigue characteristics of 2124-T851 aluminum alloy. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 168-172		4
4	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
3	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
2	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	
1	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	