Yuansheng Yang

List of Publications by Citations

64 papers	894 citations	17 h-index	27 g-index
67 ext. papers	1,110 ext. citations	4.4 avg, IF	4.56 L-index

#	Paper	IF	Citations
64	Recommendation for modifying current cytotoxicity testing standards for biodegradable magnesium-based materials. *Acta Biomaterialia*, **2015**, 21, 237-49	10.8	201
63	A high strength and ductility Mg□Zn□Al□Cu□Mn magnesium alloy. *Materials & Design*, **2013**, 47, 746-749		43
62	Effect of crystal orientation on corrosion behavior of directionally solidified Mg-4 wt% Zn alloy. *Journal of Materials Science and Technology*, **2018**, 34, 1229-1235	9.1	36
61	Effect of pulsed magnetic field on superalloy melt. *International Journal of Heat and Mass Transfer*, **2009**, 52, 5285-5292	4.9	36
60	Microstructure and tensile properties of as-cast and as-aged Mg□Al□Zn alloys with Sn addition. *Materials & Design*, **2013**, 51, 567-574		34
59	Effects of Cu addition on the microstructure and mechanical properties of as-cast and heat treated Mg-6Zn-4Al magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 689, 203-211	5.3	33
58	Microstructure and mechanical properties of as-cast Mg□Al□Sn□Nd alloy. *Materials & Design*, **2012**, 36, 432-437		32
57	Microstructure and mechanical properties of Mg-Zn-Y-Nd-Zr alloys. *Journal of Rare Earths*, **2013**, 31, 616-621	3.7	27
56	Microstructure and corrosion resistance of directionally solidified Mg-2 wt.% Zn alloy. *Corrosion Science*, **2017**, 120, 75-81	6.8	26
55	Microstructure, texture and mechanical properties of hot-rolled Mg□Al□Sn□.5Y□.4Nd alloy. *Journal of Magnesium and Alloys*, **2016**, 4, 207-213	8.8	23
54	Grain refinement effect of a pulsed magnetic field on as-cast superalloy K417. *Journal of Materials Research*, **2009**, 24, 2670-2676	2.5	23
53	Effects of scandium addition on biocompatibility of biodegradable Mg□.5Zn□.6Zr alloy. *Materials Letters*, **2018**, 215, 200-202	3.3	22
52	Influence of albumin on in vitro degradation behavior of biodegradable Mg-1.5Zn-0.6Zr-0.2Sc alloy. *Materials Letters*, **2018**, 217, 227-230	3.3	22
51	Grain refinement effect of pulsed magnetic field on solidified microstructure of superalloy IN718. *Journal of Materials Research*, **2009**, 24, 3174-3181	2.5	20
50	Theoretical analysis of the particle gradient distribution in centrifugal field during solidification. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **1996**, 27, 1025-1029	2.5	19
49	Influence of solution treatment on microstructure, mechanical and corrosion properties of Mg-4Zn alloy. *Journal of Magnesium and Alloys*, **2015**, 3, 247-252	8.8	18
48	Effects of solution and quenching treatment on the residual stress in extruded ZK60 magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 722, 14-19	5.3	17

47	Influence of the low voltage pulsed magnetic field on the columnar-to-equiaxed transition during directional solidification of superalloy K4169. *Journal of Materials Science and Technology*, **2020**, 48, 9-17	9.1	15
46	Low cycle fatigue behavior of the extruded AZ80 magnesium alloy under different strain amplitudes and strain rates. *Journal of Magnesium and Alloys*, **2016**, 4, 181-187	8.8	15
45	Numerical simulation of non-dendritic structure formation in Mg-Al alloy solidified with ultrasonic field. *Ultrasonics Sonochemistry*, **2018**, 40, 113-119	8.9	14
44	Improving mechanical properties of age-hardenable Mg□Zn□Al□Sn alloy processed by double-aging treatment. *Journal of Materials Science and Technology*, **2017**, 33, 1249-1254	9.1	14
43	Application of Steady Magnetic Field for Refining Solidification Structure and Enhancing Mechanical Properties of 25Cr-20Ni-Fe-C Alloy in Centrifugal Casting.. *ISIJ International*, **1995**, 35, 389-392	1.7	14
42	Dynamic microstructural evolution in Mg□Zn□Al□Sn alloy during hot deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 657, 393-398	5.3	13
41	A numerical model for spacing selection of lamellar eutectics grown from flowing liquids. *Journal of Crystal Growth*, **1998**, 194, 263-271	1.6	12
40	Effect of grain morphology on the degradation behavior of Mg-4 wt% Zn alloy in Hank's solution. *Materials Science and Engineering C*, **2020**, 106, 110013	8.3	12
39	Effects of Pulsed Magnetic Field on Microsegregation of Solute Elements in a Ni-Based Single Crystal Superalloy. *Journal of Materials Science and Technology*, **2017**, 33, 105-110	9.1	11
38	Age hardening responses of as-extruded Mg-2.5Sn-1.5Ca alloys with a wide range of Al concentration. *Journal of Materials Science and Technology*, **2020**, 38, 39-46	9.1	11
37	Microstructure and mechanical properties of Mg-5Zn-3.5Sn-1Mn-0.5Ca-0.5Cu alloy. *Materials Characterization*, **2019**, 147, 406-413	3.9	10
36	Effects of scandium addition on the in vitro degradation behavior of biodegradable Mg□.5Zn□.6Zr alloy. *Journal of Materials Science*, **2018**, 53, 14075-14086	4.3	9
35	The segregation of copper and silicon in Al-Si-Cu alloy during electromagnetic centrifugal solidification. *Science and Technology of Advanced Materials*, **2001**, 2, 271-275	7.1	9
34	Characterization the role of squeezing pressure on microstructure, tensile properties and failure mode of a new Mg-6Zn-4Al-0.5Cu magnesium alloy. *Journal of Alloys and Compounds*, **2017**, 718, 188-196	5.7	8
33	An effective method to calculate the composition-dependent interdiffusivity with one diffusion couple. *Computational Materials Science*, **2018**, 143, 182-188	3.2	8
32	Numerical simulation of fluid flow in electromagnetic centrifugal casting. *Modelling and Simulation in Materials Science and Engineering*, **1996**, 4, 421-432	2	8
31	Improved corrosion resistance of Mg alloy by a green phosphating: insights into pre-activation, temperature, and growth mechanism. *Journal of Materials Science*, **2021**, 56, 828-843	4.3	8
30	Effect of temperature conditions on grain refinement of Mg□l alloy under ultrasonic field. *International Journal of Cast Metals Research*, **2017**, 30, 341-347	1	7

29	The Study on the Overall Plasma Electrolytic Oxidation for 6061-7075 Dissimilar Aluminum Alloy Welded Parts Based on the Dielectric Breakdown Theory. *Materials*, **2018**, 11,	3.5	7
28	The origin of nuclei and the refinement mechanism for solidified superalloy IN718 under pulsed magnetic field. *Journal of Materials Research*, **2009**, 24, 3689-3692	2.5	6
27	Simulation of the Influence of Pulsed Magnetic Field on the Superalloy Melt with the Solid–Liquid Interface in Directional Solidification. *Acta Metallurgica Sinica (English Letters)*, **2020**, 33, 1442-1454	2.5	5
26	Monotonic and Fatigue Behavior of Magnesium Extrusion Alloy AM30: An International Benchmark Test in the Magnesium Front End Research and Development Project. **2010**,		4
25	Comparison of the effects of pre-activators on morphology and corrosion resistance of phosphate conversion coating on magnesium alloy. *Journal of Magnesium and Alloys*, **2021**,	8.8	4
24	Overall micro-arc oxidation treatment for AZ31B–6061 magnesium–aluminium dissimilar metal connecting parts. *Corrosion Engineering Science and Technology*, **2017**, 52, 470-475	1.7	3
23	The mechanical anisotropy of directionally solidified Mg-4 wt.% Zn alloy under compression test. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2019**, 762, 138104	5.3	3
22	Simulation for Carbon Nanotube Dispersion and Microstructure Formation in CNTs/AZ91D Composite Fabricated by Ultrasonic Processing. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 2256-2266	2.5	3
21	Crystallography and morphology of a lathy ferrite in Fe–Cr–Ni alloys during directional solidification. *Journal of Materials Research*, **2013**, 28, 2040-2046	2.5	3
20	Residual stress and precipitation of Mg-5Zn-3.5Sn-1Mn-0.5Ca-0.5Cu alloy with different quenching rates. *Journal of Magnesium and Alloys*, **2021**, 9, 604-612	8.8	3
19	Effect of Pulsed Magnetic Field on the Residual Stress of Rolled Magnium Alloy AZ31 Sheet. *Acta Metallurgica Sinica (English Letters)*, **2021**, 34, 45-53	2.5	3
18	Evolution of the Microstructure and Microsegregation in Subrapidly Solidified Mg–3Al–4Zn–1.2Sn Magnesium Alloy. *Advanced Engineering Materials*, **2021**, 23, 2000583	3.5	3
17	Microstructure and mechanical properties of directionally solidified Mg–2n alloy as a biomaterial. *Materials Science and Technology*, **2019**, 35, 2165-2172	1.5	2
16	Effect of Al on the microstructure and mechanical properties of Mg–6Zn–2Sn–0.5Mn alloy. *Materials Science and Technology*, **2019**, 35, 1464-1470	1.5	2
15	Effect of Graphite Powder Amount on Surface Films Formed on Molten AZ91D Alloy. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 2564-2573	2.5	2
14	Numerical simulation of equiaxed growth of Ni-based alloy in multi-directional flowing melt. *Computational Materials Science*, **2020**, 173, 109408	3.2	2
13	Microstructure and mechanical property of biodegradable Mg–1.5Zn–0.6Zr alloy with varying contents of scandium. *Materials Letters*, **2018**, 229, 60-63	3.3	2
12	Effect of Holding Time on Surface Films Formed on Molten AZ91D Alloy Protected by Graphite Powder. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 2334-2342	2.5	1

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11	Effect of Melt Temperature on Surface Films Formed on Molten AZ91D Alloy Protected by Graphite Powder. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2017**, 48, 3152-3160	2.5	1
10	Calculation of the solid–liquid interfacial energy for $Zr_{65}Ni_{25}Al_{10}$ and $Zr_{65}Ni_{25}Al_{10}Cu$ alloys based on the non-structural approach. *Modelling and Simulation in Materials Science and Engineering*, **2006**, 14, 1095-1103	2	1
9	Fluidity, Microstructure, and Tensile Properties of Sub-rapidly Solidified Mg-6Al-4Zn-xSn (x = 0, 0.6, 1.2, 1.8) Alloy. *Acta Metallurgica Sinica (English Letters)*, **2021**, 34, 1265-1276	2.5	1
8	Solidification Structure Control by the Interaction of Pulsed Magnetic Field and Melt. *Procedia Manufacturing*, **2019**, 37, 621-626	1.5	1
7	Effect of Convection on Equiaxed Solidification of Ni-based alloy. *Procedia Manufacturing*, **2019**, 37, 508-512	1.5	1
6	Atomic size and chemical effects of alloying elements Cu, Mg and Si on the structure and dynamics of molten 8090-based AlLi alloy. *International Journal of Cast Metals Research*, **2018**, 31, 93-98	1	0
5	Energy model for the Zr-based metallic glass alloy melt with clusters **2007**, 50, 460-466		
4	Effect of Heat Treatment on the Cyclic Deforming Behavior of As-Extruded ZA81M Magnesium Alloy. *Metals*, **2022**, 12, 146	2.3	
3	Centrifugal Casting of Al-25%w Cu Alloy with Electromagnetic Stirring and Water Cooling **2001**, 177-184		
2	Microstructures and Mechanical Properties of Extruded and Aged $Mg_{92}Zn_2Al_2Sn_2$(0.6Mn) Alloy. *Springer Proceedings in Physics*, **2019**, 1-9	0.2	
1	Microstructure of Mg-5Zn-3.5Sn-1Mn-0.5Ca-0.5Cu alloy after hot compression. *Procedia Manufacturing*, **2019**, 37, 46-50	1.5	