

Yuansheng Yang

List of Publications by Year in descending order

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times ranked

1370
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#	ARTICLE	IF	CITATIONS
1	Recommendation for modifying current cytotoxicity testing standards for biodegradable magnesium-based materials. <i>Acta Biomaterialia</i> , 2015, 21, 237-249.	8.3	338
2	A high strength and ductility Mg-Zn-Al-Cu-Mn magnesium alloy. <i>Materials & Design</i> , 2013, 47, 746-749.	5.1	52
3	Effects of Cu addition on the microstructure and mechanical properties of as-cast and heat treated Mg-6Zn-4Al magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 689, 203-211.	5.6	49
4	Effect of crystal orientation on corrosion behavior of directionally solidified Mg-4 wt% Zn alloy. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1229-1235.	10.7	47
5	Microstructure and tensile properties of as-cast and as-aged Mg-6Al-4Zn alloys with Sn addition. <i>Materials & Design</i> , 2013, 51, 567-574.	5.1	39
6	Effect of pulsed magnetic field on superalloy melt. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5285-5292.	4.8	38
7	Microstructure and corrosion resistance of directionally solidified Mg-2 wt.% Zn alloy. <i>Corrosion Science</i> , 2017, 120, 75-81.	6.6	38
8	Microstructure and mechanical properties of as-cast Mg-Al-Sn-Y-Nd alloy. <i>Materials & Design</i> , 2012, 36, 432-437.	5.1	34
9	Microstructure and mechanical properties of Mg-Zn-Y-Nd-Zr alloys. <i>Journal of Rare Earths</i> , 2013, 31, 616-621.	4.8	32
10	Influence of solution treatment on microstructure, mechanical and corrosion properties of Mg-4Zn alloy. <i>Journal of Magnesium and Alloys</i> , 2015, 3, 247-252.	11.9	31
11	Numerical simulation of non-dendritic structure formation in Mg-Al alloy solidified with ultrasonic field. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 113-119.	8.2	28
12	Grain refinement effect of a pulsed magnetic field on as-cast superalloy K417. <i>Journal of Materials Research</i> , 2009, 24, 2670-2676.	2.6	27
13	Microstructure, texture and mechanical properties of hot-rolled Mg-4Al-2Sn-0.5Y-0.4Nd alloy. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 207-213.	11.9	27
14	Effects of scandium addition on biocompatibility of biodegradable Mg-1.5Zn-0.6Zr alloy. <i>Materials Letters</i> , 2018, 215, 200-202.	2.6	27
15	Influence of the low voltage pulsed magnetic field on the columnar-to-equiaxed transition during directional solidification of superalloy K4169. <i>Journal of Materials Science and Technology</i> , 2020, 48, 9-17.	10.7	26
16	Effects of solution and quenching treatment on the residual stress in extruded ZK60 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 722, 14-19.	5.6	25
17	Influence of albumin on in vitro degradation behavior of biodegradable Mg-1.5Zn-0.6Zr-0.2Sc alloy. <i>Materials Letters</i> , 2018, 217, 227-230.	2.6	25
18	Improving mechanical properties of age-hardenable Mg-6Zn-4Al-1Sn alloy processed by double-aging treatment. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1249-1254.	10.7	24

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19	Theoretical analysis of the particle gradient distribution in centrifugal field during solidification. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1996, 27, 1025-1029.	2.1	23
20	Grain refinement effect of pulsed magnetic field on solidified microstructure of superalloy IN718. <i>Journal of Materials Research</i> , 2009, 24, 3174-3181.	2.6	23
21	Effect of grain morphology on the degradation behavior of Mg-4 wt% Zn alloy in Hank's solution. <i>Materials Science and Engineering C</i> , 2020, 106, 110013.	7.3	22
22	Low cycle fatigue behavior of the extruded AZ80 magnesium alloy under different strain amplitudes and strain rates. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 181-187.	11.9	21
23	Application of Steady Magnetic Field for Refining Solidification Structure and Enhancing Mechanical Properties of 25Cr-20Ni-Fe-C Alloy in Centrifugal Casting. <i>ISIJ International</i> , 1995, 35, 389-392.	1.4	18
24	Dynamic microstructural evolution in Mg-4Zn-2Al-2Sn alloy during hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 657, 393-398.	5.6	17
25	Effects of Pulsed Magnetic Field on Microsegregation of Solute Elements in a Ni-Based Single Crystal Superalloy. <i>Journal of Materials Science and Technology</i> , 2017, 33, 105-110.	10.7	17
26	Residual stress and precipitation of Mg-5Zn-3.5Sn-1Mn-0.5Ca-0.5Cu alloy with different quenching rates. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 604-612.	11.9	16
27	Microstructure and mechanical properties of Mg-5Zn-3.5Sn-1Mn-0.5Ca-0.5Cu alloy. <i>Materials Characterization</i> , 2019, 147, 406-413.	4.4	15
28	Age hardening responses of as-extruded Mg-2.5Sn-1.5Ca alloys with a wide range of Al concentration. <i>Journal of Materials Science and Technology</i> , 2020, 38, 39-46.	10.7	15
29	An effective method to calculate the composition-dependent interdiffusivity with one diffusion couple. <i>Computational Materials Science</i> , 2018, 143, 182-188.	3.0	14
30	Effects of scandium addition on the in vitro degradation behavior of biodegradable Mg-1.5Zn-0.6Zr alloy. <i>Journal of Materials Science</i> , 2018, 53, 14075-14086.	3.7	14
31	Effect of temperature conditions on grain refinement of Mg-Al alloy under ultrasonic field. <i>International Journal of Cast Metals Research</i> , 2017, 30, 341-347.	1.0	13
32	A numerical model for spacing selection of lamellar eutectics grown from flowing liquids. <i>Journal of Crystal Growth</i> , 1998, 194, 263-271.	1.5	12
33	Effect of Pulsed Magnetic Field on the Residual Stress of Rolled Magnium Alloy AZ31 Sheet. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 45-53.	2.9	12
34	Improved corrosion resistance of Mg alloy by a green phosphating: insights into pre-activation, temperature, and growth mechanism. <i>Journal of Materials Science</i> , 2021, 56, 828-843.	3.7	10
35	Numerical simulation of fluid flow in electromagnetic centrifugal casting. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996, 4, 421-432.	2.0	9
36	The segregation of copper and silicon in Al-Si-Cu alloy during electromagnetic centrifugal solidification. <i>Science and Technology of Advanced Materials</i> , 2001, 2, 271-275.	6.1	9

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37	Characterization the role of squeezing pressure on microstructure, tensile properties and failure mode of a new Mg-6Zn-4Al-0.5Cu magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2017, 718, 188-196.	5.5	9
38	The Study on the Overall Plasma Electrolytic Oxidation for 6061-7075 Dissimilar Aluminum Alloy Welded Parts Based on the Dielectric Breakdown Theory. <i>Materials</i> , 2018, 11, 63.	2.9	8
39	Simulation of the Influence of Pulsed Magnetic Field on the Superalloy Melt with the Solid-Liquid Interface in Directional Solidification. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1442-1454.	2.9	8
40	The origin of nuclei and the refinement mechanism for solidified superalloy IN718 under pulsed magnetic field. <i>Journal of Materials Research</i> , 2009, 24, 3689-3692.	2.6	7
41	Microstructure and mechanical property of biodegradable Mg-1.5Zn-0.6Zr alloy with varying contents of scandium. <i>Materials Letters</i> , 2018, 229, 60-63.	2.6	6
42	Solidification Structure Control by the Interaction of Pulsed Magnetic Field and Melt. <i>Procedia Manufacturing</i> , 2019, 37, 621-626.	1.9	6
43	Comparison of the effects of pre-activators on morphology and corrosion resistance of phosphate conversion coating on magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2021, , .	11.9	6
44	The mechanical anisotropy of directionally solidified Mg-4 wt.% Zn alloy under compression test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 762, 138104.	5.6	5
45	Effect of Al on the microstructure and mechanical properties of Mg-6Zn-2Sn-0.5Mn alloy. <i>Materials Science and Technology</i> , 2019, 35, 1464-1470.	1.6	5
46	Evolution of the Microstructure and Microsegregation in Subrapidly Solidified Mg-6Al-4Zn-1.2Sn Magnesium Alloy. <i>Advanced Engineering Materials</i> , 2021, 23, 2000583.	3.5	5
47	Monotonic and Fatigue Behavior of Magnesium Extrusion Alloy AM30: An International Benchmark Test in the "Magnesium Front End Research and Development Project", 2010, , .		4
48	Crystallography and morphology of a lathy ferrite in Fe-Cr-Ni alloys during directional solidification. <i>Journal of Materials Research</i> , 2013, 28, 2040-2046.	2.6	4
49	Overall micro-arc oxidation treatment for AZ31-6061 magnesium-aluminium dissimilar metal connecting parts. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 470-475.	1.4	4
50	Calculation of the solid-liquid interfacial energy for Zr-Ni-Al and Zr-Ni-Al-Cu alloys based on the non-structural approach. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2006, 14, 1095-1103.	2.0	3
51	Simulation for Carbon Nanotube Dispersion and Microstructure Formation in CNTs/AZ91D Composite Fabricated by Ultrasonic Processing. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2256-2266.	2.1	3
52	Atomic size and chemical effects of alloying elements Cu, Mg and Si on the structure and dynamics of molten 8090-based AlLi alloy. <i>International Journal of Cast Metals Research</i> , 2018, 31, 93-98.	1.0	3
53	Microstructure and mechanical properties of directionally solidified Mg-Zn alloy as a biomaterial. <i>Materials Science and Technology</i> , 2019, 35, 2165-2172.	1.6	3
54	Numerical simulation of equiaxed growth of Ni-based alloy in multi-directional flowing melt. <i>Computational Materials Science</i> , 2020, 173, 109408.	3.0	3

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55	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.	2.1	2
56	Fluidity, Microstructure, and Tensile Properties of Sub-rapidly Solidified Mg-6Al-4Zn-xSn (x=0, 0.6, 1.2) T ₁ T ₂ Q ₀ 0 ₀ rgBT/Ov	2.9	2
57	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.	2.1	1
58	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.	2.1	1
59	Effect of Convection on Equiaxed Solidification of Ni-based alloy. Procedia Manufacturing, 2019, 37, 508-512.	1.9	1
60	The corrosion characteristics and mechanism of directionally solidified Mg-3Zn-xCa alloys. Journal of Magnesium and Alloys, 2022, , .	11.9	1
61	Energy model for the Zr-based metallic glass alloy melt with clusters. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 460-466.	0.2	0
62	Microstructure of Mg-5Zn-3.5Sn-1Mn-0.5Ca-0.5Cu alloy after hot compression. Procedia Manufacturing, 2019, 37, 46-50.	1.9	0
63	Centrifugal Casting of Al-25%w Cu Alloy with Electromagnetic Stirring and Water Cooling. , 2001, , 177-184.		0
64	INCLUSIONS IN Mg-Gd-Y-Zr ALLOY MELTING UNDER THE GAS COVERAGE. Jinshu Xuebao/Acta Metallurgica Sinica, 2012, 48, 63.	0.3	0
65	EFFECTS OF Al AND Zn ADDITION ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CAST Mg-5Sn ALLOY. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 621.	0.3	0
66	Microstructures and Mechanical Properties of Extruded and Aged Mg-4Zn-2Al-2Sn-(0.6Mn) Alloy. Springer Proceedings in Physics, 2019, , 1-9.	0.2	0
67	Effect of Heat Treatment on the Cyclic Deforming Behavior of As-Extruded ZA81M Magnesium Alloy. Metals, 2022, 12, 146.	2.3	0