

# Jiangfeng Song

## List of Publications by Year in descending order

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42  
papers

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docs citations

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times ranked

1147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Latest research advances on magnesium and magnesium alloys worldwide. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 1-41.	11.9	852
2	Research advances of magnesium and magnesium alloys worldwide in 2021. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 863-898.	11.9	224
3	A review on hot tearing of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 151-172.	11.9	104
4	The effect of amorphous pyrophosphate on calcium phosphate cement resorption and bone generation. <i>Biomaterials</i> , 2013, 34, 6631-6637.	11.4	77
5	An investigation on microstructure, texture and formability of AZ31 sheet processed by asymmetric porthole die extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 720, 85-97.	5.6	70
6	Improvement of mechanical properties and reduction of yield asymmetry of extruded Mg-Sn-Zn alloy through Ca addition. <i>Journal of Alloys and Compounds</i> , 2019, 782, 1076-1086.	5.5	62
7	Formation of the elliptical texture and its effect on the mechanical properties and stretch formability of dilute Mg-Sn-Y sheet by Zn addition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 259-275.	5.6	60
8	Flower-like agglomerates of hydroxyapatite crystals formed on an egg-shell membrane. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 490-496.	5.0	51
9	Mechanical properties of hydroxyapatite ceramics sintered from powders with different morphologies. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5421-5427.	5.6	51
10	Improved mechanical properties of Mg-3Al-1Zn alloy sheets by optimizing the extrusion die angles: Microstructural and texture evolution. <i>Journal of Alloys and Compounds</i> , 2018, 762, 719-729.	5.5	43
11	Effect of effective strain gradient on texture and mechanical properties of Mg-3Al-1Zn alloy sheets produced by asymmetric extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 706, 172-180.	5.6	42
12	Effect of Nd addition on the microstructure and mechanical properties of extruded Mg-Gd-Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 816, 141320.	5.6	40
13	Effect of Zn addition on hot tearing behaviour of Mg-0.5Ca-xZn alloys. <i>Materials and Design</i> , 2015, 87, 157-170.	7.0	39
14	Effects of Zn and Ca addition on microstructure and mechanical properties of as-extruded Mg-1.0Sn alloy sheet. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 82-93.	5.6	35
15	Unusual texture formation in Mg-3Al-1Zn alloy sheets processed by slope extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 732, 1-5.	5.6	32
16	An Investigation on Hot Tearing of Mg-4.5Zn-(0.5Zr) Alloys with Y Additions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 2108-2118.	2.2	30
17	Hot tearing characteristics of Mg-2Ca-xZn alloys. <i>Journal of Materials Science</i> , 2016, 51, 2687-2704.	3.7	28
18	Influence of Zn on the microstructure and mechanical properties of Mg-Gd-Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 843, 143136.	5.6	26

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19	Hot Tearing Susceptibility of Mg-Ca Binary Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 6003-6017.	2.2	23
20	Effect of pass reduction on distribution of shear bands and mechanical properties of AZ31B alloy sheets prepared by on-line heating rolling. <i>Journal of Materials Processing Technology</i> , 2020, 280, 116611.	6.3	21
21	Effect of tension on edge crack of on-line heating rolled AZ31B magnesium alloy sheet. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1988-1997.	5.8	18
22	Effect of Cu Additions on Microstructure, Mechanical Properties and Hot-Tearing Susceptibility of Mg-6Zn-0.6Zr Alloys. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 5530-5539.	2.5	16
23	Comparison of edge cracking and tensile cracking in in-situ deformation at 150Å°C of Mg-2Zn-1.5Mn alloy sheet. <i>Journal of Materials Science and Technology</i> , 2022, 112, 24-35.	10.7	15
24	Influence of indentation size on the corrosion behaviour of a phosphate conversion coated AZ80 magnesium alloy. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1739-1753.	5.8	14
25	The Edge Crack, Texture Evolution, and Mechanical Properties of Mg-1Al-1Sn-Mn Alloy Sheets Prepared Using On-Line Heating Rolling. <i>Metals</i> , 2018, 8, 860.	2.3	11
26	High-temperature mechanical properties of as-extruded AZ80 magnesium alloy at different strain rates. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 1373-1379.	4.9	9
27	The Effect of Sr Addition on Hot Tearing Susceptibility of Mg-1Ca-xSr Alloys. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 7645-7654.	2.5	8
28	Effect of Boron on the Grain Refinement and Mechanical Properties of as-Cast Mg Alloy AM50. <i>Materials</i> , 2019, 12, 1100.	2.9	7
29	Comparison on Hot Tearing Behavior of Binary Mg-Al, Mg-Y, Mg-Gd, Mg-Zn, and Mg-Ca Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 2986-3001.	2.2	7
30	Microstructure and Mechanical Properties of Mg-6Al-1Sn-0.3Mn Alloy Sheet Fabricated through Extrusion Combined with Rolling. <i>Crystals</i> , 2018, 8, 356.	2.2	6
31	Effect of Zener-Hollomon Parameter on High-Temperature Deformation Behaviors of Mg-6Zn-1.5Y-0.5Ce-0.4Zr Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 606-616.	2.9	6
32	Comparison of edge crack behavior of Mg sheets prepared by online heating rolling. <i>Journal of Materials Research and Technology</i> , 2022, 19, 5037-5048.	5.8	6
33	Improved Edge Quality for AZ31 Sheets Using Online Heating Rolling Technique. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4212-4221.	2.5	5
34	Impact of asymmetry deformation on microstructure and mechanical properties of AZ31B alloy sheets deformed by on-line heating rolling. <i>Progress in Natural Science: Materials International</i> , 2022, 32, 96-103.	4.4	5
35	Optimized Tension for AZ31B Thin Sheets Rolled with On-Line Heating Rolling. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 227-238.	2.9	4
36	Effect of laser shock on lamellar eutectic growth: A phase-field study. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122069.	4.8	3

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37	The corrosion behaviour of MAO coated AZ80 magnesium alloy with surface indentation of different sizes. <i>Engineering Failure Analysis</i> , 2022, 136, 106185.	4.0	3
38	Optimized Hot Tearing Resistance of VW63K Magnesium Alloy. <i>International Journal of Metalcasting</i> , 0, 1.	1.9	2
39	Numerical investigation of eutectic growth dynamics under convection by 3D phase-field method. <i>Computers and Mathematics With Applications</i> , 2022, 114, 83-94.	2.7	1
40	Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. <i>Advanced Materials Research</i> , 0, 996, 592-597.	0.3	0
41	Effects of Substitution of Y with Yb and Ce on the Microstructures and Mechanical Properties of Mg88.5Zn5Y6.5. <i>Metals</i> , 2021, 11, 31.	2.3	0
42	Study on Microstructure and Properties of Single-Pass Online Heating Rolling of Mn-Containing Magnesium Alloy Sheets. <i>Advanced Engineering Materials</i> , 0, , 2200493.	3.5	0