

Young Min Kim

List of Publications by Year in descending order

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35
papers

1,168
citations

361413

20
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

639
citing authors

#	ARTICLE	IF	CITATIONS
1	Key factor influencing the ignition resistance of magnesium alloys at elevated temperatures. <i>Scripta Materialia</i> , 2011, 65, 958-961.	5.2	123
2	Transformation behavior and microstructural characteristics of acicular ferrite in linepipe steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 478, 361-370.	5.6	116
3	Effects of extrusion speed on the microstructure and mechanical properties of ZK60 alloys with and without 1wt% cerium addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 583, 25-35.	5.6	87
4	A new high-strength extruded Mg-8Al-4Sn-2Zn alloy. <i>Materials Letters</i> , 2015, 139, 35-38.	2.6	79
5	Recent Progress and Development in Extrusion of Rare Earth Free Mg Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 145-168.	2.9	74
6	Static recrystallization behaviour of cold rolled Mg-Zn-Y alloy and role of solute segregation in microstructure evolution. <i>Scripta Materialia</i> , 2017, 136, 41-45.	5.2	56
7	Effects of combined addition of Ca and Y on the corrosion behaviours of die-cast AZ91D magnesium alloy. <i>Corrosion Science</i> , 2020, 166, 108451.	6.6	56
8	Microstructural evolution and improvement in mechanical properties of extruded AZ31 alloy by combined addition of Ca and Y. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 309-318.	5.6	48
9	Grain refinement of Mg-Al cast alloy by the addition of manganese carbonate. <i>Journal of Alloys and Compounds</i> , 2010, 490, 695-699.	5.5	45
10	Influence of extrusion temperature on dynamic deformation behaviors and mechanical properties of Mg-8Al-0.5Zn-0.2Mn-0.3Ca-0.2Y alloy. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5254-5270.	5.8	43
11	Microstructure and mechanical properties of non-flammable Mg-8Al-0.3Zn-0.1Mn-0.3Ca-0.2Y alloy subjected to low-temperature, low-speed extrusion. <i>Journal of Alloys and Compounds</i> , 2018, 739, 69-76.	5.5	38
12	Texture tailoring and bendability improvement of rolled AZ31 alloy using {10 $\bar{1}2$ } twinning: The effect of precompression levels. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 648-660.	11.9	38
13	Effect of Ca Addition on the Corrosion Resistance of Gravity Cast AZ31 Magnesium Alloy. <i>Materials Transactions</i> , 2007, 48, 1023-1028.	1.2	34
14	Grain size effect on twinning and annealing behaviors of rolled magnesium alloy with bimodal structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 38-45.	5.6	31
15	Microstructural evolution and mechanical properties of binary Mg-xBi (x=2, 5, and 8 wt%) alloys. <i>Journal of Magnesium and Alloys</i> , 2020, 9, 983-983.	11.9	29
16	Development of a novel electrolytic process for producing high-purity magnesium metal from magnesium oxide using a liquid tin cathode. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1644-1655.	11.9	27
17	Effects of Extrusion Speed on the Microstructure and Mechanical Properties of Mg-9Al-0.8Zn-0.9Ca-0.6Y-0.5MM Alloy. <i>Metals and Materials International</i> , 2021, 27, 530-537.	3.4	24
18	Strain-dependent constitutive analysis of hot deformation and hot workability of T4-treated ZK60 magnesium alloy. <i>Metals and Materials International</i> , 2013, 19, 651-665.	3.4	23

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19	Sequential precipitation behavior of Mg ₁₇ Al ₁₂ and Mg ₂ Sn in Mg-8Al-2Sn-1Zn alloys. <i>Journal of Alloys and Compounds</i> , 2018, 749, 794-802.	5.5	23
20	Comparative study of tensile and high-cycle fatigue properties of extruded AZ91 and AZ91-0.3Ca-0.2Y alloys. <i>Journal of Materials Science and Technology</i> , 2021, 93, 41-52.	10.7	20
21	Effect of the Ca content on the microstructural evolution of Ca containing AZ31 cast alloys. <i>Metals and Materials International</i> , 2011, 17, 583-586.	3.4	19
22	Molten Salt Electrolysis of Magnesium Oxide Using a Liquid Metal Cathode for the Production of Magnesium Metal. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2993-3006.	2.1	19
23	Effect of magnesium carbonate on microstructure and rolling behaviors of AZ31 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1485-1490.	5.6	18
24	Significant Improvement in Extrudability of Mg-9Al-0.8Zn-0.9Ca-0.6Y Alloy Through Mischmetal Addition. <i>Metals and Materials International</i> , 2021, 27, 514-521.	3.4	18
25	Effect of hafnium carbide on the grain refinement of Mg-3wt.% Al alloy. <i>Journal of Alloys and Compounds</i> , 2010, 500, L12-L15.	5.5	15
26	Scale-Up Study of Molten Salt Electrolysis using Cu or Ag Cathode and Vacuum Distillation for the Production of High-Purity Mg Metal from MgO. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 883-897.	2.3	14
27	Modification of Microstructure and Texture in Highly Non-Flammable Mg-Al-Zn-Y-Ca Alloy Sheets by Controlled Thermomechanical Processes. <i>Metals</i> , 2019, 9, 181.	2.3	12
28	Unusual relationship between extrusion temperature and tensile strength of extruded Mg-Al-Zn-Ca-Y-MM alloy. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158051.	5.5	10
29	Tensile and High-Cycle Fatigue Properties of Extruded AZ91-0.3Ca-0.2Y Alloy with Excellent Corrosion and Ignition Resistances. <i>Metals and Materials International</i> , 2022, 28, 385-396.	3.4	9
30	Microstructural characteristics and low-cycle fatigue properties of AZ91 and AZ91-Ca-Y alloys extruded at different temperatures. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 892-902.	11.9	9
31	Aging Hardening and Precipitation Characteristics of Extruded Mg-9Al-0.8Zn-0.2Mn-0.3Ca-0.2Y Alloy. <i>Metals and Materials International</i> , 2023, 29, 381-389.	3.4	5
32	Oxidation and Corrosion Behavior of Non-Flammable Magnesium Alloys Containing Ca and Y. , 2014, , 325-329.		3
33	Non-flammable magnesium sheet alloys with an excellent age-hardenability. <i>Scripta Materialia</i> , 2022, 219, 114880.	5.2	2
34	Effects of the Al Content on the Evolution of Quadruple Basal Textures in Mg-xAl-1Zn-0.1Mn-0.1Ca-0.2Y Alloy Sheets Processed via Cold Rolling and Annealing. <i>Metals</i> , 2022, 12, 499.	2.3	1
35	Corrosion Behavior of Gravity Cast and High-Pressure Die-Cast AM60 Mg Alloys with Ca and Y Addition. <i>Metals</i> , 2022, 12, 495.	2.3	0