Madlen Ullmann

List of Publications by Year
in descending order

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		1478280	1281743
42	210	6	11
papers	citations	h-index	g-index

44	44	44	149
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of tension-compression anomaly during bending of magnesium alloy AZ31. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 62-71.	2.6	21
2	Properties of Magnesium Strips Produced by Twin-Roll-Casting and Hot Rolling. Materials Science Forum, 0, 690, 21-24.	0.3	19
3	Influence of Initial State on Forgeability and Microstructure Development of Magnesium Alloys. Procedia Engineering, 2014, 81, 546-551.	1.2	15
4	Microstructure and Texture Evolution during Twin-Roll Casting and Annealing of a Mgâ€“6.8Y2.5Znâ€“0.4Zr Alloy (WZ73). Crystals, 2020, 10, 513.	1.0	15
5	Microstructure and Hot Deformation Behavior of Twin Roll Cast Mg-2Zn-1Al-0.3Ca Alloy. Materials, 2019, 12, 1020.	1.3	12
6	GTN Model-Based Material Parameters of AZ31 Magnesium Sheet at Various Temperatures by Means of SEM In-Situ Testing. Crystals, 2020, 10, 856.	1.0	11
7	Hot Deformation and Dynamic Recrystallisation Behaviour of Twin-Roll Cast Mg-6.8Y-2.5Zn-0.4Zr Magnesium Alloy. Materials, 2021, 14, 307.	1.3	9
8	Effect of Different Finish-Rolling Parameters on the Microstructure and Mechanical Properties of Twin-Roll-Cast (TRC) AZ31 Strips. Key Engineering Materials, 0, 554-557, 274-279.	0.4	7
9	Dynamic Recrystallization Behaviour of Twin Roll Cast AZ31 Strips during Hot Deformation. Key Engineering Materials, 2014, 622-623, 569-574.	0.4	7
10	Twin-Roll-Casting and Hot Rolling of Magnesium Alloy WE43. Procedia Engineering, 2014, 81, 1553-1558.	1.2	6
11	Sensitivity Analysis of Oxide Scale Influence on General Carbon Steels during Hot Forging. Metals, 2018, 8, 140.	1.0	6
12	Improving the crashworthiness of magnesium AZ31 by tapering and triggering. Thin-Walled Structures, 2021, 162, 107565.	2.7	6
13	Metadynamic Recrystallization Kinetics of Twin Roll Cast AZ31 Alloy during Hot Deformation. Procedia Engineering, 2014, 81, 1559-1564.	1.2	5
14	A Comparative Study on the Hot Deformation Behavior of As-Cast and Twin-Roll Cast Mg-6.8Y-2.5Zn-0.4Zr Alloy. Materials, 2021, 14, 3628.	1.3	5
15	Investigation of the Deformation Behaviour and Resulting Ply Thicknesses of Multilayered Fibreâ€“Metal Laminates. Journal of Composites Science, 2021, 5, 176.	1.4	5
16	Procedure to Analyze the Formation of Segregations Using the PLS-SEM Approach. Key Engineering Materials, 2017, 746, 75-83.	0.4	4
17	Mechanical Properties and Microstructure of the Magnesium Alloy Mg-6.8Y-2.5Zn-0.5Al Produced by Casting and Hot Rolling. Materials Science Forum, 2018, 918, 3-12.	0.3	4
18	Forming and Oxidation Behavior During Forging with Consideration of Carbon Content of Steel. Metals, 2018, 8, 996.	1.0	4

#	Article	IF	Citations
19	Magnesium Twin-Roll Casting Technology for Flat and Long Products - State of the Art and Future. Materials Science Forum, 2018, 941, 1431-1436.	0.3	4
20	Hot Deformation Behaviour and Processing Maps of an as-Cast Mg-6.8Y-2.5Zn-0.4Zr Alloy. Materials Science Forum, 2019, 949, 57-65.	0.3	4
21	Property Oriented Wire Rolling Technology for Mg-Al Alloys. Key Engineering Materials, 2016, 684, 42-56.	0.4	3
22	Influence of Temperature and Loading Rate on the Forming Limit Behaviour of Twin-Roll Cast, Rolled and Heat-Treated AZ31 as a Function of the Stress State. Key Engineering Materials, 2016, 684, 67-73.	0.4	3
23	Substitution of Rare Earth Elements in Hot Rolled Magnesium Alloys with Improved Mechanical Properties. Materials Science Forum, 2016, 854, 57-64.	0.3	3
24	Influence of the Sheet Manufacturing Process on the Forming Limit Behaviour of Twin-Roll Cast, Rolled and Heat-Treated AZ31. Key Engineering Materials, 0, 746, 154-160.	0.4	3
25	An empirical examination of the thickness profile formation of twin-roll-cast magnesium strips. Archives of Civil and Mechanical Engineering, 2018, 18, 227-234.	1.9	3
26	Dynamic recrystallization and texture evolution of Mg-6.8Y-2.5Zn-0.3Zr alloy during hot rolling. Procedia Manufacturing, 2020, 50, 809-816.	1.9	3
27	Analysis of defects in a twin roll cast <scp>Mgâ€Yâ€Zn</scp> magnesium alloy. Engineering Reports, 2022, 4, e12394.	0.9	3
28	Microstructure Investigations of Inverse Segregations in Twin-Roll Cast AZ31 Strips. , 2016, , 369-374.		3
29	Improving the formability of magnesium by cushion-ram-pulsation. MATEC Web of Conferences, 2018, 190, 12003.	0.1	2
30	Determination of the Hot Cracking Tendency of a Twin-Roll Cast AZ31 Magnesium Alloy by Means of Gleeble Tests. Materials Science Forum, 0, 918, 40-47.	0.3	2
31	Improving Mechanical Properties of Twin-Roll Cast AZ31 by Wire Rolling. Materials Science Forum, 0, 1016, 957-963.	0.3	2
32	Dynamic recrystallization behaviour of Twin Roll Cast ZAX210 strips during hot deformation. , 2019, , .		2
33	Microstructure and Hot Deformation Behaviour of Twin-Roll Cast AZ31 Magnesium Wire. Crystals, 2022, 12, 173.	1.0	2
34	The Effect of Sheet Thickness, Loading Rate and Punch Diameter on the Deformation Behaviour of AZ31 during 3-Point Bending. Materials Science Forum, 2016, 854, 65-72.	0.3	1
35	Influence of Deformation Controlled Strain Rate on Tensile and Compression Behaviour of Magnesium and Steel Wire. Materials Science Forum, 0, 892, 89-96.	0.3	1
36	Influence of Heat-Treatment and Rolling Conditions on the Mechanical Warm Forming Properties of Twin-Roll Cast AZ31. Key Engineering Materials, 2017, 746, 184-191.	0.4	1

#	Article	IF	Citations
37	Hot crack susceptibility of cast Mg 97 Y 2 Zn 1. Engineering Reports, 0, , e12380.	0.9	1
38	Hot Rolling of the Twin-Roll Cast and Homogenized Mg-6.8Y-2.5Zn (WZ73) Magnesium Alloy Containing LPSO Structures. Metals, 2021, 11, 1771.	1.0	1
39	Microstructural Evolution of the Magnesium Alloy AZ31 with and without SiC Particles during Ultrasonic Melt Treatment. Key Engineering Materials, 2016, 716, 345-351.	0.4	0
40	Influence of Temperature, Strain Rate, and Sheet Thickness on the Deformation Behaviour of Twin-Roll Cast, Rolled and Heat-Treated AZ31 under Uniaxial Loading. Key Engineering Materials, 0, 684, 29-34.	0.4	0
41	Impact of Initial State during Calibre Rolling: Investigating Microstructure and Mechanical Properties of AZ80 Magnesium Alloy. Materials Science Forum, 2018, 941, 857-862.	0.3	0
42	Orthotropic Behaviour of Magnesium AZ31 Sheet during Strain Localization. Materials Science Forum, 0, 1016, 541-552.	0.3	0