Klaudia HorvÃ¡th

List of Publications by Year
in descending order

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38	478	623188	713013
papers	citations	14	21
		h-index	g-index

38	38	38	404
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Combination of in-situ diffraction experiments and acoustic emission testing to understand the compression behavior of Mg-Y-Zn alloys containing LPSO phase under different loading conditions. International Journal of Plasticity, 2018, 106, 107-128.	4.1	76
2	Increasing strength of a biomedical Ti-Nb-Ta-Zr alloy by alloying with Fe, Si and O. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 71, 329-336.	1.5	75
3	Influence of quasicrystal I-phase on twinning of extruded Mg-Zn-Y alloys under compression. Acta Materialia, 2018, 151, 271-281.	3.8	32
4	Hot deformation of Mg-Y-Zn alloy with a low content of the LPSO phase studied by in-situ synchrotron radiation diffraction. Journal of Magnesium and Alloys, 2020, 8, 199-209.	5.5	24
5	Comparison of the effects of isothermal equal channel angular pressing and multi-directional forging on mechanical properties of AM60 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 776, 139002.	2.6	20
6	Mobility of pinned twin boundaries during mechanical loading of extruded binary Mg-1Zn alloy. Materials Characterization, 2018, 139, 81-88.	1.9	18
7	A new insight into LPSO transformation during multi-axial forging in Mg-Gd-Y-Zn-Zr alloy. Materials Letters, 2020, 269, 127625.	1.3	16
8	The slip activity during the transition from elastic to plastic tensile deformation of the Mg-Al-Mn sheet. Journal of Magnesium and Alloys, 2021, 9, 1057-1067.	5.5	16
9	Superior low-temperature superplasticity in fine-grained ZK60 Mg alloy sheet produced by a combination of repeated upsetting process and sheet extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141444.	2.6	16
10	Unraveling the effect of deformation-induced phase transformation on microstructure and micro-texture evolution of a multi-axially forged Mg-Gd-Y-Zn-Zr alloy containing the LPSO phase. Journal of Materials Research and Technology, 2021, 15, 2088-2101.	2.6	16
11	Characterization of Microstructure and Mechanical Properties of Mgâ€“Yâ€“Zn Alloys with Respect to Different Content of LPSO Phase. Advanced Engineering Materials, 2018, 20, 1700396.	1.6	15
12	Comprehensive Evaluation of the Properties of Ultrafine to Nanocrystalline Grade 2 Titanium Wires. Materials, 2018, 11, 2522.	1.3	15
13	Mechanism of LDH Direct Growth on Aluminum Alloy Surface: A Kinetic and Morphological Approach. Journal of Physical Chemistry C, 2021, 125, 11687-11701.	1.5	15
14	Investigation of shear and tensile mechanical properties of ZK60 Mg alloy sheet processed by rolling and sheet extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 828, 142098.	2.6	14
15	Deformation behavior and acoustic emission response on uniaxial compression of extruded rectangular profile of Mg Zn Zr alloy. Journal of Alloys and Compounds, 2016, 680, 623-632.	2.8	13
16	Evolution of twinning in extruded AZ31 alloy with bimodal grain structure. Materials Characterization, 2017, 126, 116-124.	1.9	12
17	Compressive yield stress improvement using thermomechanical treatment of extruded Mg-Zn-Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 401-409.	2.6	11
18	The temperature effect on the plastic deformation of the Mg88Zn7Y5 alloy with LPSO phase studied by in-situ synchrotron radiation diffraction. Intermetallics, 2021, 138, 107321.	1.8	10

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19	Influence of Volume Fraction of Long-Period Stacking Ordered Structure Phase on the Deformation Processes during Cyclic Deformation of Mg-Y-Zn Alloys. Crystals, 2021, 11, 11.	1.0	9
20	Investigation of the Microstructure Evolution and Deformation Mechanisms of a Mg-Zn-Zr-RE Twin-Roll-Cast Magnesium Sheet by In-Situ Experimental Techniques. Materials, 2018, 11, 200.	1.3	8
21	Characterization of the Microstructure, Local Macro-Texture and Residual Stress Field of Commercially Pure Titanium Grade 2 Prepared by CONFORM ECAP. Metals, 2018, 8, 1000.	1.0	7
22	Grain Size-Related Strengthening and Softening of a Precompressed and Heat-Treated Mgâ€“Znâ€“Ca Alloy. Materials, 2020, 13, 351.	1.3	7
23	Intermetallic Phases Identification and Diffusion Simulation in Twin-Roll Cast Al-Fe Clad Sheet. Materials, 2021, 14, 7771.	1.3	6
24	Effect of Extrusion Ratio on Microstructure and Resulting Mechanical Properties of Mg Alloys with LPSO Phase. Minerals, Metals and Materials Series, 2017, , 29-34.	0.3	5
25	The influence of surface on direction of diffusion in Al-Fe clad material. Materials Characterization, 2022, 190, 112005.	1.9	5
26	Characterization of the Acoustic Emission Response and Mechanical Properties of Mg Alloy with LPSO Phase. Materials Science Forum, 2016, 879, 762-766.	0.3	4
27	Characterization of Active Deformation Mechanisms in Mg Alloys with LPSO Phase. Acta Physica Polonica A, 2018, 134, 815-819.	0.2	3
28	Thermal stability of the microstructure of rapidly solidified ribbon-consolidated Mg97.94Zn0.56Y1.5 alloy. Materials Characterization, 2022, 183, 111618.	1.9	3
29	In Situ Synchrotron Diffraction Analysis of Zn Additions on the Compression Properties of NK30. Materials, 2019, 12, 3935.	1.3	2
30	Effect of Thermomechanical Treatment on Subsequent Deformation Behavior in a Binary Z1 Magnesium Alloy Studied by the Acoustic Emission Technique. Advanced Engineering Materials, 2019, 21, 1800915.	1.6	2
31	Influence of Thermomechanical Treatment on Tensionâ€“Compression Yield Asymmetry of Extruded Mgâ€“Znâ€“Ca Alloy. Minerals, Metals and Materials Series, 2019, , 77-81.	0.3	1
32	Twinningâ€“Detwinning in Pre-Compressed and Thermally Treated ZX10 and ZN10 Alloys. Materials, 2020, 13, 5605.	1.3	1
33	Mechanisms of Plastic Deformation in Ti-Nb-Zr-Ta Based Biomedical Alloys with Fe and Si Content. Acta Physica Polonica A, 2015, 128, 574-578.	0.2	1
34	In Situ Investigation of Deformation Mechanisms in Mgâ€“Znâ€“Y Magnesium Alloy with LPSO Phase by Diffraction Methods and Acoustic Emission. Minerals, Metals and Materials Series, 2017, , 625-629.	0.3	0
35	Acoustic Emission Study of High Temperature Deformation of Mgâ€“Znâ€“Y Alloys with LPSO Phase. Minerals, Metals and Materials Series, 2018, , 203-208.	0.3	0
36	Thermo-Mechanical Treatment of Extruded Mgâ€“1Zn Alloy: Cluster Analysis of AE Signals. Minerals, Metals and Materials Series, 2018, , 217-221.	0.3	0

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37	Mechanical Properties of Thermo-Mechanically Treated Extruded Mgâ€“Zn-Based Alloys. Minerals, Metals and Materials Series, 2018, , 259-265.	0.3	0
38	Intermetallic Phase Growth in Al-steel Clad Strip during In-situ Heating in TEM. Microscopy and Microanalysis, 2021, 27, 91-92.	0.2	0