Kristyna Halmesova

List of Publications by Year
in descending order

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24 papers	539 citations	840776 11 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	388 citing authors

#	Article	IF	Citations
1	Achieving high strength and low elastic modulus in interstitial biomedical Tiâ€“Nbâ€“Zrâ€“O alloys through compositional optimization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 839, 142833.	5.6	19
2	Extended Continuous Cooling Transformation (CCT) Diagrams Determination for Additive Manufacturing Deposited Steels. Materials, 2022, 15, 3076.	2.9	5
3	The influence of severe plastic deformation on the thermal expansion of additively manufactured Ti6Al4V alloy. Journal of Materials Research and Technology, 2022, 19, 3498-3506.	5.8	5
4	Strain Hardening in an AZ31 Alloy Submitted to Rotary Swaging. Materials, 2021, 14, 157.	2.9	10
5	Effect of Rotary Swaging on Microstructure and Mechanical Properties of an AZ31 Magnesium Alloy. Advanced Engineering Materials, 2020, 22, 1900596.	3.5	10
6	Thermo-physical properties investigation in relation to deposition orientation for SLM deposited H13 steel. Thermochimica Acta, 2020, 683, 178479.	2.7	15
7	Effect of Equal Channel Angular Extrusion on the Thermal Conductivity of an AX52 Magnesium Alloy. Crystals, 2020, 10, 497.	2.2	4
8	The Effect of Hot Working on the Mechanical Properties of High Strength Biomedical Ti-Nb-Ta-Zr-O Alloy. Materials, 2019, 12, 4233.	2.9	10
9	Cold Swaging and Recrystallization Annealing of Ti-Nb-Ta-Zr-O Alloy - Microstructure, Texture and Microhardness Evolution. Materials Science Forum, 2018, 941, 1132-1136.	0.3	2
10	Micro-Tensile Behavior of Mg-Al-Zn Alloy Processed by Equal Channel Angular Pressing (ECAP). Materials, 2018, 11, 1644.	2.9	19
11	Amplitude-dependent internal friction in AZ31 alloy sheets submitted to accumulative roll bonding. Low Temperature Physics, 2018, 44, 966-972.	0.6	7
12	Thermal Conductivity of an AZ31 Sheet after Accumulative Roll Bonding. Crystals, 2018, 8, 278.	2.2	11
13	Influence of Accumulative Roll Bonding on the Texture and Tensile Properties of an AZ31 Magnesium Alloy Sheets. Materials, 2018, 11, 73.	2.9	28
14	Anisotropy of Thermal Expansion in an AZ31 Magnesium Alloy Subjected to the Accumulative Roll Bonding. Acta Physica Polonica A, 2018, 134, 820-823.	0.5	6
15	Effect of Accumulative Roll Bonding of an AZ31 Alloy on the Microstructure and Tensile Stress. Acta Physica Polonica A, 2018, 134, 863-866.	0.5	5
16	Influence of strain rate on deformation behaviour of an AX52 alloy processed by equal channel angular pressing (ECAP). Letters on Materials, 2018, 8, 517-523.	0.7	4
17	Anisotropy of mechanical and thermal properties of AZ31 sheets prepared using the ARB technique. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012023.	0.6	4
18	Amplitude Dependent Internal Friction in a Mg-Al-Zn Alloy Studied after Thermal and Mechanical Treatment. Metals, 2017, 7, 433.	2.3	6

#	Article	IF	Citations
19	A phenomenological equilibrium model applicable to high-power pulsed magnetron sputtering. Plasma Sources Science and Technology, 2010, 19, 065010.	3.1	66
20	Highly ionized fluxes of sputtered titanium atoms in high-power pulsed magnetron discharges. Plasma Sources Science and Technology, 2008, 17, 025010.	3.1	58
21	Origins of ion energy distribution function (IEDF) in high power impulse magnetron sputtering (HIPIMS) plasma discharge. Journal Physics D: Applied Physics, 2008, 41, 095203.	2.8	85
22	Ion energy distributions and efficiency of sputtering process in HIPIMS system. Journal Physics D: Applied Physics, 2008, 41, 115306.	2.8	24
23	High-power pulsed sputtering using a magnetron with enhanced plasma confinement. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 42-47.	2.1	75
24	Ion flux characteristics in high-power pulsed magnetron sputtering discharges. Europhysics Letters, 2007, 77, 45002.	2.0	61