

Kristyna Halmesova

List of Publications by Year in descending order

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24
papers

539
citations

840776

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citing authors

#	ARTICLE	IF	CITATIONS
1	Origins of ion energy distribution function (IEDF) in high power impulse magnetron sputtering (HIPIMS) plasma discharge. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 095203.	2.8	85
2	High-power pulsed sputtering using a magnetron with enhanced plasma confinement. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 42-47.	2.1	75
3	A phenomenological equilibrium model applicable to high-power pulsed magnetron sputtering. <i>Plasma Sources Science and Technology</i> , 2010, 19, 065010.	3.1	66
4	Ion flux characteristics in high-power pulsed magnetron sputtering discharges. <i>Europhysics Letters</i> , 2007, 77, 45002.	2.0	61
5	Highly ionized fluxes of sputtered titanium atoms in high-power pulsed magnetron discharges. <i>Plasma Sources Science and Technology</i> , 2008, 17, 025010.	3.1	58
6	Influence of Accumulative Roll Bonding on the Texture and Tensile Properties of an AZ31 Magnesium Alloy Sheets. <i>Materials</i> , 2018, 11, 73.	2.9	28
7	Ion energy distributions and efficiency of sputtering process in HIPIMS system. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 115306.	2.8	24
8	Micro-Tensile Behavior of Mg-Al-Zn Alloy Processed by Equal Channel Angular Pressing (ECAP). <i>Materials</i> , 2018, 11, 1644.	2.9	19
9	Achieving high strength and low elastic modulus in interstitial biomedical Ti-Nb-Zr-O alloys through compositional optimization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 839, 142833.	5.6	19
10	Thermo-physical properties investigation in relation to deposition orientation for SLM deposited H13 steel. <i>Thermochimica Acta</i> , 2020, 683, 178479.	2.7	15
11	Thermal Conductivity of an AZ31 Sheet after Accumulative Roll Bonding. <i>Crystals</i> , 2018, 8, 278.	2.2	11
12	Effect of Rotary Swaging on Microstructure and Mechanical Properties of an AZ31 Magnesium Alloy. <i>Advanced Engineering Materials</i> , 2020, 22, 1900596.	3.5	10
13	The Effect of Hot Working on the Mechanical Properties of High Strength Biomedical Ti-Nb-Ta-Zr-O Alloy. <i>Materials</i> , 2019, 12, 4233.	2.9	10
14	Strain Hardening in an AZ31 Alloy Submitted to Rotary Swaging. <i>Materials</i> , 2021, 14, 157.	2.9	10
15	Amplitude-dependent internal friction in AZ31 alloy sheets submitted to accumulative roll bonding. <i>Low Temperature Physics</i> , 2018, 44, 966-972.	0.6	7
16	Amplitude Dependent Internal Friction in a Mg-Al-Zn Alloy Studied after Thermal and Mechanical Treatment. <i>Metals</i> , 2017, 7, 433.	2.3	6
17	Anisotropy of Thermal Expansion in an AZ31 Magnesium Alloy Subjected to the Accumulative Roll Bonding. <i>Acta Physica Polonica A</i> , 2018, 134, 820-823.	0.5	6
18	Effect of Accumulative Roll Bonding of an AZ31 Alloy on the Microstructure and Tensile Stress. <i>Acta Physica Polonica A</i> , 2018, 134, 863-866.	0.5	5

#	ARTICLE	IF	CITATIONS
19	Extended Continuous Cooling Transformation (CCT) Diagrams Determination for Additive Manufacturing Deposited Steels. <i>Materials</i> , 2022, 15, 3076.	2.9	5
20	The influence of severe plastic deformation on the thermal expansion of additively manufactured Ti6Al4V alloy. <i>Journal of Materials Research and Technology</i> , 2022, 19, 3498-3506.	5.8	5
21	Anisotropy of mechanical and thermal properties of AZ31 sheets prepared using the ARB technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 219, 012023.	0.6	4
22	Effect of Equal Channel Angular Extrusion on the Thermal Conductivity of an AX52 Magnesium Alloy. <i>Crystals</i> , 2020, 10, 497.	2.2	4
23	Influence of strain rate on deformation behaviour of an AX52 alloy processed by equal channel angular pressing (ECAP). <i>Letters on Materials</i> , 2018, 8, 517-523.	0.7	4
24	Cold Swaging and Recrystallization Annealing of Ti-Nb-Ta-Zr-O Alloy - Microstructure, Texture and Microhardness Evolution. <i>Materials Science Forum</i> , 2018, 941, 1132-1136.	0.3	2