

Peter MinÄrik

List of Publications by Year in descending order

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papers

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citations

218381

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all docs

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163
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#	ARTICLE	IF	CITATIONS
1	Effect of different c/a ratio on the microstructure and mechanical properties in magnesium alloys processed by ECAP. <i>Acta Materialia</i> , 2016, 107, 83-95.	3.8	124
2	Microstructure and mechanical properties of Ni _{1,5} Co _{1,5} CrFeTi _{0,5} high entropy alloy fabricated by mechanical alloying and spark plasma sintering. <i>Materials and Design</i> , 2017, 119, 141-150.	3.3	104
3	Effect of ECAP processing on corrosion resistance of AE21 and AE42 magnesium alloys. <i>Applied Surface Science</i> , 2013, 281, 44-48.	3.1	90
4	Monitoring of grinding burn via Barkhausen noise emission in case-hardened steel in large-bearing production. <i>Journal of Materials Processing Technology</i> , 2017, 240, 104-117.	3.1	78
5	Exceptional mechanical properties of ultra-fine grain Mg-4Y-3RE alloy processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 193-198.	2.6	77
6	Investigating a twinningâ€“detwinning process in wrought Mg alloys by the acoustic emission technique. <i>Acta Materialia</i> , 2016, 110, 103-113.	3.8	71
7	Interstitial doping enhances the strength-ductility synergy in a CoCrNi medium entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 781, 139242.	2.6	64
8	Influence of equal channel angular pressing routes on texture, microstructure and mechanical properties of extruded AX41 magnesium alloy. <i>Materials Characterization</i> , 2017, 123, 282-293.	1.9	63
9	Microstructure evolution and mechanical behaviour of severely deformed pure titanium through multi directional forging. <i>Journal of Alloys and Compounds</i> , 2019, 776, 83-95.	2.8	62
10	Achievement of fine-grained bimodal microstructures and superior mechanical properties in a multi-axially forged GWZ magnesium alloy containing LPSO structures. <i>Journal of Alloys and Compounds</i> , 2019, 793, 134-145.	2.8	56
11	Enhancing the strength and ductility in accumulative back extruded WE43 magnesium alloy through achieving bimodal grain size distribution and texture weakening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 218-229.	2.6	54
12	High-strength Al _{0.2} Co _{1.5} CrFeNi _{1.5} Ti high-entropy alloy produced by powder metallurgy and casting: A comparison of microstructures, mechanical and tribological properties. <i>Materials Characterization</i> , 2020, 159, 110046.	1.9	53
13	The microstructure, texture, and room temperature mechanical properties of friction stir processed Mg-Y-Nd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 244-253.	2.6	50
14	Influence of equal channel angular pressing temperature on texture, microstructure and mechanical properties of extruded AX41 magnesium. <i>Journal of Alloys and Compounds</i> , 2017, 705, 273-282.	2.8	48
15	Microstructure characterization of LAE442 magnesium alloy processed by extrusion and ECAP. <i>Materials Characterization</i> , 2016, 112, 1-10.	1.9	47
16	Study of microcracking in illite-based ceramics during firing. <i>Journal of the European Ceramic Society</i> , 2016, 36, 221-226.	2.8	47
17	Effect of equal channel angular pressing on in vitro degradation of LAE442 magnesium alloy. <i>Materials Science and Engineering C</i> , 2017, 73, 736-742.	3.8	44
18	Role of deformation mechanisms and grain growth in microstructure evolution during recrystallization of Mg-Nd based alloys. <i>Scripta Materialia</i> , 2019, 166, 53-57.	2.6	44

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19	Enhancement of the microstructure and elevated temperature mechanical properties of as-cast Mg-Al ₂ Ca-Mg ₂ Ca in-situ composite by hot extrusion. <i>Materials Characterization</i> , 2019, 147, 155-164.	1.9	41
20	Non-destructive monitoring of corrosion extent in steel rope wires via Barkhausen noise emission. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 484, 179-187.	1.0	40
21	Investigating the Microstructure and Mechanical Properties of Aluminum-Matrix Reinforced-Graphene Nanosheet Composites Fabricated by Mechanical Milling and Equal-Channel Angular Pressing. <i>Nanomaterials</i> , 2019, 9, 1070.	1.9	33
22	AE42 magnesium alloy prepared by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2018, 742, 172-179.	2.8	32
23	Evolution of mechanical properties of LAE442 magnesium alloy processed by extrusion and ECAP. <i>Journal of Materials Research and Technology</i> , 2015, 4, 75-78.	2.6	31
24	Mechanical and biocorrosive properties of magnesium-aluminum alloy scaffold for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 213-224.	1.5	30
25	The effect of Zr on dynamic recrystallization during ECAP processing of Mg-Y-RE alloys. <i>Materials Characterization</i> , 2021, 174, 111033.	1.9	29
26	Influence of Accumulative Roll Bonding on the Texture and Tensile Properties of an AZ31 Magnesium Alloy Sheets. <i>Materials</i> , 2018, 11, 73.	1.3	28
27	Barkhausen noise emission in tool steel X210Cr12 after semi-solid processing. <i>Materials Characterization</i> , 2019, 157, 109891.	1.9	26
28	Effect of secondary phase particles on thermal stability of ultra-fine grained Mg-4Y-3RE alloy prepared by equal channel angular pressing. <i>Materials Characterization</i> , 2018, 140, 207-216.	1.9	25
29	Hydrogen absorption in Mg-Gd alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22598-22604.	3.8	24
30	Non-destructive evaluation of the railway wheel surface damage after long-term operation via Barkhausen noise technique. <i>Wear</i> , 2019, 420-421, 195-206.	1.5	24
31	Secondary phase precipitation and thermally stable microstructure refinement induced by ECAP on Mg-Y-Nd (WN43) alloy. <i>Materials Letters</i> , 2019, 237, 5-8.	1.3	24
32	Oxidation of amorphous HfNbTaTiZr high entropy alloy thin films prepared by DC magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2021, 869, 157978.	2.8	24
33	Influence of the initial state on the microstructure and mechanical properties of AX41 alloy processed by ECAP. <i>Journal of Materials Science</i> , 2019, 54, 3469-3484.	1.7	23
34	Microstructure of the novel biomedical Mg-4Y-3Nd alloy prepared by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153008.	2.8	23
35	Corrosion of pure magnesium and a WE43 magnesium alloy studied by advanced acoustic emission analysis. <i>Corrosion Science</i> , 2018, 145, 10-15.	3.0	22
36	Microstructural evolution and mechanical properties of thermomechanically processed AZ31 magnesium alloy reinforced by micro-graphite and nano-graphene particles. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152231.	2.8	22

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37	Excellent superplastic properties achieved in Mg-4Y-3RE alloy in high strain rate regime. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 784, 139314.	2.6	22
38	Influence of high pressure torsion on microstructure evolution and mechanical properties of AZ80/SiC magnesium matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141916.	2.6	22
39	Interphase boundary layer-dominated strain mechanisms in Cu+ implanted Zr-Nb nanoscale multilayers. <i>Acta Materialia</i> , 2021, 202, 317-330.	3.8	21
40	U-Zr alloy: XPS and TEM study of surface passivation. <i>Applied Surface Science</i> , 2018, 441, 113-119.	3.1	20
41	Mechanical properties of ultrafine-grained AX41 magnesium alloy at room and elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 731, 438-445.	2.6	18
42	Influence of high-pressure torsion on microstructure, hardness and shear strength of AM60 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140158.	2.6	18
43	The effect of powder size on the mechanical and corrosion properties and the ignition temperature of WE43 alloy prepared by spark plasma sintering. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1349-1362.	5.5	18
44	Effect of the severe plastic deformation by ECAP on microstructure and phase transformations in Ti-15Mo alloy. <i>Materials Today Communications</i> , 2020, 22, 100811.	0.9	17
45	Corrosion and mechanical properties of a novel biomedical WN43 magnesium alloy prepared by spark plasma sintering. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 853-853.	5.5	17
46	Novel magnesium alloy containing Y, Gd and Ca with enhanced ignition temperature and mechanical properties for aviation applications. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160089.	2.8	17
47	Microstructure development of ultra fine grained Mg-22 wt%Gd alloy prepared by high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 704, 181-191.	2.6	16
48	Characterization of Deformation Mechanisms in Mg Alloys by Advanced Acoustic Emission Methods. <i>Metals</i> , 2018, 8, 644.	1.0	16
49	A new insight into LPSO transformation during multi-axial forging in Mg-Gd-Y-Zn-Zr alloy. <i>Materials Letters</i> , 2020, 269, 127625.	1.3	16
50	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. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2088-2101.	2.6	16
51	Comprehensive Evaluation of the Properties of Ultrafine to Nanocrystalline Grade 2 Titanium Wires. <i>Materials</i> , 2018, 11, 2522.	1.3	15
52	Advanced analysis of the deformation mechanisms in extruded magnesium alloys containing neodymium or yttrium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 455-464.	2.6	15
53	Non-Destructive Evaluation of Steel Surfaces after Severe Plastic Deformation via the Barkhausen Noise Technique. <i>Metals</i> , 2018, 8, 1029.	1.0	14
54	The grain boundary character distribution in thermomechanically processed rare earth bearing magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2019, 798, 158-166.	2.8	14

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55	Tribological Characterization of Commercial Pure Titanium Processed by Multi-Directional Forging. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 857-868.	1.5	14
56	Texture Hardening Observed in Mg-Zn-Nd Alloy Processed by Equal-Channel Angular Pressing (ECAP). <i>Metals</i> , 2020, 10, 35.	1.0	14
57	Influence of texture on the thermal expansion coefficient of Mg/BN nanocomposite. <i>Thermochimica Acta</i> , 2016, 644, 69-75.	1.2	13
58	Novel aircraft Mg-Y-Gd-Ca alloys with high ignition temperature and suppressed flammability. <i>Materials Letters</i> , 2020, 264, 127313.	1.3	13
59	Monitoring of components made of duplex steel after turning as a function of flank wear by the use of Barkhausen noise emission. <i>Materials Characterization</i> , 2020, 169, 110587.	1.9	13
60	Assessment of patient counselling on the common cold treatment at Slovak community pharmacies using mystery shopping. <i>Saudi Pharmaceutical Journal</i> , 2019, 27, 574-583.	1.2	12
61	Substantially Higher Corrosion Resistance in AE42 Magnesium Alloy through Corrosion Layer Stabilization by ECAP Treatment. <i>Acta Physica Polonica A</i> , 2012, 122, 614-617.	0.2	12
62	Effect of Microstructure on the Corrosion Resistance of the AE42 Magnesium Alloy Processed by Rotary Swaging. <i>Acta Physica Polonica A</i> , 2015, 128, 805-808.	0.2	12
63	Thermal Conductivity of an AZ31 Sheet after Accumulative Roll Bonding. <i>Crystals</i> , 2018, 8, 278.	1.0	11
64	Influence of temperature of ECAP processing on the microstructure and microhardness of as-cast AX41 alloy. <i>Journal of Materials Science</i> , 2020, 55, 3118-3129.	1.7	11
65	Microhardness study of Cd _{1-x} Zn _x Te _{1-y} Se _y crystals for X-ray and gamma ray detectors. <i>Materials Today Communications</i> , 2020, 24, 101014.	0.9	11
66	Deformation behavior of Mg-alloy-based composites at different temperatures studied by neutron diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 685, 284-293.	2.6	10
67	Strengthening of Fe ₃ Al Aluminides by One or Two Solute Elements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 4135-4139.	1.1	10
68	Structure and mechanical properties of FeAlCrV and FeAlCrMo medium-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 727, 184-191.	2.6	10
69	Increased structural stability in twin-roll cast AZ31 magnesium alloy processed by equal channel angular pressing. <i>Materials Characterization</i> , 2019, 153, 199-207.	1.9	10
70	Acoustic emission analysis of the compressive deformation of iron foams and their biocompatibility study. <i>Materials Science and Engineering C</i> , 2019, 97, 367-376.	3.8	10
71	Effect of Rotary Swaging on Microstructure and Mechanical Properties of an AZ31 Magnesium Alloy. <i>Advanced Engineering Materials</i> , 2020, 22, 1900596.	1.6	10
72	Decomposition of cutting forces with respect to chip segmentation and white layer thickness when hard turning 100Cr6. <i>Journal of Manufacturing Processes</i> , 2020, 50, 475-484.	2.8	10

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73	Strain Hardening in an AZ31 Alloy Submitted to Rotary Swaging. <i>Materials</i> , 2021, 14, 157.	1.3	10
74	Effect of the fiber orientation on the deformation mechanisms of magnesium-alloy based composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 643, 25-31.	2.6	9
75	Elasticity and internal friction of magnesium alloys at room and elevated temperatures. <i>Journal of Materials Science</i> , 2018, 53, 8545-8553.	1.7	9
76	Texture evolution and wear properties of a frictionally stir processed magnesium matrix composite reinforced by micro graphite and nano graphene particles. <i>Materials Research Express</i> , 2019, 6, 1065c6.	0.8	9
77	Continuous measurement of m-parameter for analyzing plastic instability in a superplastic ultra-fine grained magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 110-114.	2.6	8
78	The Influence of Milling and Spark Plasma Sintering on the Microstructure and Properties of the Al7075 Alloy. <i>Materials</i> , 2018, 11, 547.	1.3	8
79	Characterization of the High-Strength Mg-3Nd-0.5Zn Alloy Prepared by Thermomechanical Processing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 321-331.	1.5	8
80	XPS, UPS, and BIS study of pure and alloyed δ -UH3 films: Electronic structure, bonding, and magnetism. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020, 239, 146904.	0.8	8
81	Low Temperature Plasticity of Ultrafine-Grained AE42 and AZ31 Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2013, 15, 352-357.	1.6	7
82	δ -U phase in U-Pt system retained to low temperatures by means of rapid cooling. <i>Journal of Nuclear Materials</i> , 2016, 479, 287-294.	1.3	7
83	Nanocrystalline aluminium particles inside Mg-4Li-4Al-2RE magnesium alloy after severe plastic deformation. <i>Materials Characterization</i> , 2017, 127, 248-252.	1.9	7
84	Influence of mechanical treatment on thermophysical processes in illitic clay during firing. <i>Applied Clay Science</i> , 2017, 141, 240-247.	2.6	7
85	Amplitude-dependent internal friction in AZ31 alloy sheets submitted to accumulative roll bonding. <i>Low Temperature Physics</i> , 2018, 44, 966-972.	0.2	7
86	The Effect of Different Thermal Treatment on the Allotropic fcc \rightarrow hcp Transformation and Compression Behavior of Polycrystalline Cobalt. <i>Materials</i> , 2020, 13, 5775.	1.3	7
87	Magnesium Reinforced with Inconel 718 Particles Prepared Ex Situ—Microstructure and Properties. <i>Materials</i> , 2020, 13, 798.	1.3	7
88	Preparation of Fe-Al-Si Intermetallic Compound by Mechanical Alloying and Spark Plasma Sintering. <i>Acta Physica Polonica A</i> , 2018, 134, 724-728.	0.2	7
89	In situ investigation of deformation mechanisms in magnesium-based metal matrix composites. <i>Metals and Materials International</i> , 2015, 21, 652-658.	1.8	6
90	The in-situ mechanical spectroscopy and electric resistance study of WE43 magnesium alloy during aging. <i>Journal of Alloys and Compounds</i> , 2018, 743, 646-653.	2.8	6

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91	Influence of heat treatment on corrosion resistance of Mg-Al-Zn alloy processed by severe plastic deformation. <i>Open Engineering</i> , 2018, 8, 391-394.	0.7	6
92	Superconductivity in U-Nb alloys with δ -U phase and ferromagnetism of their hydrides. <i>Physica B: Condensed Matter</i> , 2018, 545, 152-158.	1.3	6
93	Strain relaxation in InGaN/GaN epilayers by formation of V-pit defects studied by SEM, XRD and numerical simulations. <i>Journal of Applied Crystallography</i> , 2021, 54, 62-71.	1.9	6
94	Development of grain size/ texture graded microstructures through friction stir processing and subsequent cold compression of a rare earth bearing magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141190.	2.6	6
95	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.	0.2	6
96	Intermetallic Phases Identification and Diffusion Simulation in Twin-Roll Cast Al-Fe Clad Sheet. <i>Materials</i> , 2021, 14, 7771.	1.3	6
97	The correlation of c-to-a axial ratio and slip activity of martensite including microstructures during thermomechanical processing of Ti-6Al-4V alloy. <i>Journal of Materials Research and Technology</i> , 2022, 18, 577-583.	2.6	6
98	Temperature dependence of tensile deformation behavior and strain hardening of lean duplex stainless steels. <i>Journal of Materials Research and Technology</i> , 2022, 20, 330-342.	2.6	6
99	Assessing the frost resistance of illite-based ceramics through the resonant frequency of free vibration and internal damping. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	5
100	Nanocrystalline Al7075 + 1 wt % Zr Alloy Prepared Using Mechanical Milling and Spark Plasma Sintering. <i>Materials</i> , 2017, 10, 1105.	1.3	5
101	Application of SPS consolidation and its influence on the properties of the FeAl ₂ O ₃ Si ₂ O ₅ alloys prepared by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 138020.	2.6	5
102	Peculiar serrated flow during compression of an FeAlCrMo medium-entropy alloy. <i>Scripta Materialia</i> , 2019, 161, 49-53.	2.6	5
103	Effect of Short Attritor-Milling of Magnesium Alloy Powder Prior to Spark Plasma Sintering. <i>Materials</i> , 2020, 13, 3973.	1.3	5
104	The origin and the effect of the fcc phase in sintered HfNbTaTiZr. <i>Materials Letters</i> , 2021, 286, 129224.	1.3	5
105	Investigation of Magnetic Anisotropy and Barkhausen Noise Asymmetry Resulting from Uniaxial Plastic Deformation of Steel S235. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3600.	1.3	5
106	Barkhausen noise emission in Fe-resin soft magnetic composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 525, 167683.	1.0	5
107	states in U_{Ga}^{2+} probed by x-ray spectroscopies. <i>Physical Review B</i> , 2021, 104, .	1.1	5
108	Monitoring of Corrosion Extent in Steel S460MC by the Use of Magnetic Barkhausen Noise Emission. <i>Journal of Nondestructive Evaluation</i> , 2021, 40, 1.	1.1	5

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109	Evolution of Corrosion Resistance in the LAE442 Magnesium Alloy Processed by ECAP. Acta Physica Polonica A, 2015, 128, 772-775.	0.2	5
110	Effect of Accumulative Roll Bonding of an AZ31 Alloy on the Microstructure and Tensile Stress. Acta Physica Polonica A, 2018, 134, 863-866.	0.2	5
111	Anisotropy of mechanical and thermal properties of AZ31 sheets prepared using the ARB technique. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012023.	0.3	4
112	Microhardness study of CdZnTeSe crystals for X-ray and gamma ray radiation detectors. , 2019, , .		4
113	Effect of Equal Channel Angular Extrusion on the Thermal Conductivity of an AX52 Magnesium Alloy. Crystals, 2020, 10, 497.	1.0	4
114	Hydrogen in U-T alloys: Crystal structure and magnetism of UH3-V. Journal of Alloys and Compounds, 2021, 856, 157406.	2.8	4
115	Microstructure Evolution and Mechanical Properties of cp-Ti Processed by a Novel Technique of Rotational Constrained Bending. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1665-1678.	1.1	4
116	Interrelation of Microstructure and Corrosion Resistance in Biodegradable Magnesium Alloys with Aluminum, Lithium and Rare Earth Additions. Acta Physica Polonica A, 2015, 128, 491-497.	0.2	4
117	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.	0.2	4
118	Structural stability of ultra-fine grained magnesium alloys processed by equal channel angular pressing. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012052.	0.3	3
119	Structural stability of ultra-fine grained magnesium alloys processed by equal channel angular pressing. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012022.	0.3	3
120	Laves phase UTi ₂ stabilized by hydrogen and its magnetic properties. Physica B: Condensed Matter, 2018, 536, 539-542.	1.3	3
121	Fe ₃ Al Iron Aluminides Alloyed with High Concentrations of V and Cr: Their Structure and High Temperature Strength. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6046-6051.	1.1	3
122	Spin fluctuations in hydrogen-stabilized Laves phase UTi ₂ H ₅ . Philosophical Magazine, 2019, 99, 1881-1898.	0.7	3
123	Effect of flake-like powder morphology on the microstructure and texture in Mg-Al-RE alloy. Materials Letters, 2020, 262, 127031.	1.3	3
124	Enhanced magnetocaloric effect in distilled terbium and emergence of novel properties after severe plastic deformation. Scripta Materialia, 2020, 187, 340-344.	2.6	3
125	Barkhausen Noise Emission in AISI 321 Austenitic Steel Originating from the Strain-Induced Martensite Transformation. Metals, 2021, 11, 429.	1.0	3
126	Synergic effect of high temperature and high pressure on consolidation of Mg-4Y-3Nd powder by spark plasma sintering. Materials Letters, 2021, 292, 129647.	1.3	3

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127	Analysis of Surface State after Turning of High Tempered Bearing Steel. <i>Materials</i> , 2022, 15, 1718.	1.3	3
128	EBSD Study of Uranium Alloys. <i>MRS Advances</i> , 2016, 1, 3013-3018.	0.5	2
129	Inhomogeneous Precipitation of the β -Phase in Ti15Mo Alloy Deformed by ECAP. <i>Materials Science Forum</i> , 2018, 941, 1183-1188.	0.3	2
130	Mechanical properties of illite-based ceramics with controlled porosity studied by modern in situ techniques. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2780-2790.	1.9	2
131	Microstructure and Mechanical Strength of Attritor-Milled and Spark Plasma Sintered Mg-4Y-3Nd Alloy. <i>Crystals</i> , 2020, 10, 574.	1.0	2
132	Anomalous Superconductivity of the U-Ti Alloys. , 2020, , .		2
133	Mechanical-acoustic study of electroporcelain mixture made under different compression pressures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1759-1766.	2.0	2
134	Grain Refinement after Various Thermo-Mechanical Treatments in AZ80 and ZK60 Magnesium Alloys. <i>Acta Physica Polonica A</i> , 2012, 122, 622-624.	0.2	2
135	Effect of heat pre-treatment and extrusion on the structure and mechanical properties of WZ21 magnesium alloy. <i>Materiali in Tehnologije</i> , 2018, 52, 499-505.	0.3	2
136	The effect of Y, Gd and Ca on the ignition temperature of extruded magnesium alloys. <i>Materiali in Tehnologije</i> , 2020, 54, 669-675.	0.3	2
137	Superplastic deformation of fine-grained AE42 and LAE442 magnesium alloys. <i>Letters on Materials</i> , 2018, 8, 538-542.	0.2	2
138	Microstructure Evolution in Cu-0.5 wt% Zr Alloy Processed by a Novel Severe Plastic Deformation Technique of Rotational Constrained Bending. <i>Metals</i> , 2021, 11, 63.	1.0	2
139	Magnetic Measurement of Zn Layer Heterogeneity on the Flange of the Steel Road Barrier. <i>Materials</i> , 2022, 15, 1898.	1.3	2
140	Mechanical Properties and Microstructure Development in Ultrafine-grained Materials Processed by Equal-channel Angular Pressing. , 0, , .		1
141	Superconductivity in U-Pt system with low Pt concentrations (≈ 15 at.%). <i>Physica C: Superconductivity and Its Applications</i> , 2018, 546, 76-83.	0.6	1
142	Microstructure evolution in a CuZr alloy and CP Ti processed by a novel technique of free bending in rotating rollers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 672, 012006.	0.3	1
143	Analysis of the twin variant selection in polycrystalline cobalt. <i>Journal of Materials Science</i> , 2021, 56, 7740-7752.	1.7	1
144	Deformation Behavior of Mg-alloy-based Composites at Different Temperatures Studied by Neutron Diffraction. <i>Acta Physica Polonica A</i> , 2018, 134, 881-886.	0.2	1

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145	Influence of Tailored Microstructure on the Corrosion Layer Stability in LAE442 Magnesium Alloy. Acta Physica Polonica A, 2018, 134, 887-890.	0.2	1
146	High Plasticity of an Iron Aluminide-based Material at Low Temperatures. Physical Science International Journal, 2018, 18, 1-11.	0.3	1
147	Effect of ALUMINUM CONTENT and precipitation on the corrosion behavior and acoustic emission RESPONSE OF AZ31 AND AZ80 MAGNESIUM ALLOYS. , 2019, , .		1
148	Influence of spark plasma sintering on microstructure and corrosion behaviour of WN43 Magnesium alloy for biomaterials. , 2019, , .		1
149	Spark plasma sintered Mg-4Y-3Nd with exceptional tensile performance. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 849, 143481.	2.6	1
150	Microstructural study of duplex stainless steel after turning using EBSD and X-ray diffraction analysis. IOP Conference Series: Materials Science and Engineering, 2021, 1121, 012033.	0.3	0
151	Analysis of deformation mechanisms in a textured AZ31 magnesium alloy. IOP Conference Series: Materials Science and Engineering, 2021, 1178, 012011.	0.3	0
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