

Ivana StulÃ¡kovÃ¡;

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Phase transformations due to isochronal annealing of Mg–rare earth–Sc–Mn squeeze cast alloys. <i>International Journal of Materials Research</i> , 2022, 94, 553-558.	0.1	0
2	Phase transformations in creep resistant MgYNdScMn alloy. <i>International Journal of Materials Research</i> , 2022, 96, 823-827.	0.1	0
3	Annealing effects in hot-deformed Al-Mn-Sc-Zr alloys. <i>Metallic Materials</i> , 2021, 52, 295-304.	0.2	9
4	Measurement of corrosion behaviour of magnesium alloys developed for application in biomaterials area. <i>Metallic Materials</i> , 2021, 52, 189-195.	0.2	1
5	Mechanical and thermal properties and corrosion behaviour of heat-treated Mg–Y–Nd–Ag alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2167-2174.	2.0	4
6	Natural and artificial aging in Mg-Gd binary alloys. <i>Journal of Alloys and Compounds</i> , 2018, 738, 173-181.	2.8	16
7	Influence of dislocations on precipitation processes in hot-extruded Al–Mn–Sc–Zr alloy. <i>International Journal of Materials Research</i> , 2018, 109, 583-592.	0.1	9
8	Hydrogen absorption in Mg-Gd alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22598-22604.	3.8	24
9	Thermal stability and microstructure development of cast and powder metallurgy produced Mg–Y–Zn alloy during heat treatment. <i>Journal of Magnesium and Alloys</i> , 2017, 5, 173-180.	5.5	13
10	Microhardness and In Vitro Corrosion of Heat-Treated Mg–Y–Ag Biodegradable Alloy. <i>Materials</i> , 2017, 10, 55.	1.3	23
11	Early stages of precipitation in Mg-RE alloys studied by positron annihilation spectroscopy. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012004.	0.3	1
12	Effects in Mg-Zn-based alloys strengthened by quasicrystalline phase. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012005.	0.3	1
13	Influence of powder metallurgy route on precipitation processes in MgTbNd alloy. <i>Materials Characterization</i> , 2016, 112, 149-154.	1.9	3
14	The Effect of Heat Treatment on Morphology and Phase Composition of Grain Boundary Phases in Mg-Zn-Y-Nd-Zr. <i>Defect and Diffusion Forum</i> , 2015, 365, 30-35.	0.4	0
15	Hydrogen Trapping at Defects in Pd and Thermally Activated Desorption. <i>Defect and Diffusion Forum</i> , 2015, 365, 36-41.	0.4	1
16	Early Stages of Precipitation Process in Al-(Mn)-Sc-Zr Alloy Characterized by Positron Annihilation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1556-1564.	1.1	14
17	Annealing Effects in Mg-Y-Zn Alloys Prepared by Powder Metallurgy and by Squeeze Casting. <i>Defect and Diffusion Forum</i> , 2014, 353, 183-188.	0.4	0
18	Precipitation in cold-rolled Al–Sc–Zr and Al–Mn–Sc–Zr alloys prepared by powder metallurgy. <i>Materials Characterization</i> , 2013, 86, 59-68.	1.9	45

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19	Degradable Mg-Y-Nd-Mn alloys modified by Sc or Zn. <i>Metallic Materials</i> , 2013, 50, 351-356.	0.2	3
20	Phase transformations in non-isothermally annealed as-cast and cold-rolled AlMnScZr alloys. <i>International Journal of Materials Research</i> , 2012, 103, 814-820.	0.1	12
21	Natural aging of Mg-Y-Gd and Mg-Y-Tb alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2135-2141.	0.8	8
22	Defects in Mg-Zn-Y-Nd Alloys with Icosahedral Phase. <i>Physics Procedia</i> , 2012, 35, 45-50.	1.2	0
23	Vacancy-like defects associated with icosahedral phase in Mg-Y-Nd-Zr alloys modified by the addition of Zn. <i>Scripta Materialia</i> , 2012, 66, 630-633.	2.6	8
24	Effect of cold rolling on precipitation processes in Al-Mn-Sc-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 548, 27-32.	2.6	31
25	Microstructure, corrosion resistance and cytocompatibility of Mg-Y-Rare Earth-0.5Zr (WE54) alloy. <i>Materials Science and Engineering C</i> , 2012, 32, 659-664.	3.8	37
26	Microstructure, Thermal and Mechanical Properties of Non-Isothermally Annealed Al-Sc-Zr and Al-Mn-Sc-Zr Alloys Prepared by Powder Metallurgy. <i>Acta Physica Polonica A</i> , 2012, 122, 439-443.	0.2	4
27	Phase transformations in MgTbNd alloy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2741-2748.	0.8	6
28	Mechanical properties and phase composition of potential biodegradable Mg-Zn-Mn-base alloys with addition of rare earth elements. <i>Materials Characterization</i> , 2010, 61, 952-958.	1.9	39
29	Characterization of phase development in non-isothermally annealed mould-cast and heat-treated Al-Mn-Sc-Zr alloys. <i>Materials Characterization</i> , 2010, 61, 1400-1405.	1.9	24
30	Response of aluminum processed by extrusion preceded ECAP to isochronal annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1469-1472.	2.6	9
31	Phase transformations in isochronally annealed mould-cast and cold-rolled Al-Sc-Zr-based alloy. <i>Journal of Alloys and Compounds</i> , 2010, 492, 143-148.	2.8	60
32	Microstructure and mechanical properties of the AA6082 aluminium alloy with small additions of Sc and Zr. <i>International Journal of Materials Research</i> , 2009, 100, 420-423.	0.1	20
33	Recovery and recrystallization behavior of aluminum processed by extrusion-preceded equal channel angular pressing. <i>International Journal of Materials Research</i> , 2009, 100, 867-870.	0.1	3
34	Microstructural investigation of the failure mechanisms after creep exposure of Mg-Y-Nd-Zn-Mn alloy. <i>International Journal of Materials Research</i> , 2009, 100, 296-300.	0.1	2
35	Precipitation Effects in Ultra-Fine-Grained Mg-RE Alloys. <i>International Journal of Materials Research</i> , 2009, 100, 780-784.	0.1	10
36	Phase composition and morphology development in WE-type alloys modified by high Zn content. <i>International Journal of Materials Research</i> , 2009, 100, 292-295.	0.1	2

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37	Creep behaviour of the creep resistant MgY3Nd2Zn1Mn1 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 489, 93-98.	2.6	25
38	Cavitation and grain boundary sliding during creep of Mg-Y-Nd-Zn-Mn alloy. Transactions of Nonferrous Metals Society of China, 2008, 18, s64-s68.	1.7	3
39	Microstructure Development and Precipitation Effects in Ultra Fine Grained Mg-3Tb-2Nd Alloy Prepared by High Pressure Torsion. Materials Science Forum, 2008, 584-586, 591-596.	0.3	3
40	Identification and Characterization of Phase Transformations by the Resistivity Measurements in Mg-RE-Mn Alloys. Solid State Phenomena, 2008, 138, 57-62.	0.3	5
41	Influence of deformation on precipitation process in Mg-15wt.%Gd alloy. Journal of Alloys and Compounds, 2007, 430, 92-96.	2.8	56
42	Thermal stability and corrosion behaviour of Mg-Y-Nd and Mg-Tb-Nd alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 329-333.	2.6	58
43	Influence of processing technology on phase transformations in a rare-earth-containing Mg-Zn-Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 334-338.	2.6	8
44	Microstructure and thermal stability of ultra fine grained Mg-based alloys prepared by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 121-126.	2.6	67
45	Microstructure, mechanical properties and corrosion behaviour of dilute Al-Sc-Zr alloy prepared by powder metallurgy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 464, 358-364.	2.6	38
46	Annealing effects in Al-Sc alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 370-374.	2.6	23
47	Microstructure investigations of ultra-fine grained Mg-Gd alloys prepared by high pressure torsion. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3591-3594.	0.8	0
48	Aging Response of Mg-Rare Earth Alloys with Low Scandium Content. , 2006, , 92-97.		1
49	Thermal development of microstructure and precipitation effects in Mg-10wt%Gd alloy. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 466-477.	0.8	31
50	Microstructure and Thermal Stability of Ultra Fine Grained Mg-Based Alloys Prepared by High Pressure Torsion. Materials Science Forum, 2006, 503-504, 149-154.	0.3	13
51	Structure and Morphology of Effective Obstacles in High Performance Mg - Rare Earth Base Alloys. , 2005, , 43-48.		7
52	Mechanisms of creep deformation in Mg-Sc-based alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1729-1736.	1.1	78
53	Phase transformations in creep resistant MgYNdScMn alloy. International Journal of Materials Research, 2005, 96, 823-827.	0.8	3
54	Dependence of Thermal Stability of Ultra Fine Grained Metals on Grain Size. , 2005, , 630-635.		0

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55	Microstructure of Ultra Fine Grained Mg and Mg-10 wt.% Cd Prepared by High-Pressure Torsion. , 2005, , 202-207.		0
56	Ageing Characteristics and Creep Resistance of Mg-Y-Nd-Sc-Mn Alloy. , 2005, , 116-121.		0
57	Microstructure and Thermal Stability of Ultra Fine Grained Mg and Mg-Gd Alloys Prepared by High-Pressure Torsion. Materials Science Forum, 2005, 482, 183-186.	0.3	9
58	Annealing process in quenched Al-Sn alloys: a positron annihilation study. Physical Review B, 2005, 71, .	1.1	21
59	Defects in Ultra-Fine Grained Mg and Mg-Based Alloys Prepared by High Pressure Torsion Studied by Positron Annihilation. Acta Physica Polonica A, 2005, 107, 738-744.	0.2	8
60	Ultra Fine-Grained Metals Prepared by Severe Plastic Deformation: A Positron Annihilation Study. Acta Physica Polonica A, 2005, 107, 745-752.	0.2	17
61	Significance of stable and metastable phases in high temperature creep resistant magnesium rare earth base alloys. Journal of Alloys and Compounds, 2004, 378, 196-201.	2.8	115
62	Equilibrium and transient phases in Mg-Y-Nd ternary alloys. Journal of Alloys and Compounds, 2004, 381, L1-L2.	2.8	37
63	Effect of Sc and Zr additions on the microstructure and age hardening of an AlMg3MnCr alloy Structure and age hardening of AlMgMnCrScZr. Materials Characterization, 2003, 51, 11-20.	1.9	11
64	Mechanical properties and creep of Mg - rare earth - Sc - Mn squeeze cast alloys. Materialwissenschaft Und Werkstofftechnik, 2003, 34, 102-108.	0.5	25
65	Thermal stability of ultrafine grained copper. Physical Review B, 2002, 65, .	1.1	106
66	Aluminium Alloys on the Basis of Al-Cu-Mg, Lead-Free, Intended for Cutting. Materials Science Forum, 2002, 396-402, 1641-1646.	0.3	5
67	Mechanical Inhomogeneity of Extruded Al-Li Based Profiles. Materials Science Forum, 2002, 396-402, 1241-1246.	0.3	0
68	New High Temperature Creep Resistant Mg-YNd-Sc-Mn Alloy. Physica Status Solidi A, 2002, 190, R5-R7.	1.7	10
69	Microstructure and Phase Changes Due to Heat Treatment of Squeeze Cast Mg-Sc-(Ce)-Mn Alloys. Physica Status Solidi A, 2002, 191, 305-316.	1.7	16
70	Positron-Lifetime Investigation of Thermal Stability of Ultra-Fine Grained Nickel. Physica Status Solidi A, 2002, 191, 391-408.	1.7	16
71	Structural aspects of high performance Mg alloys design. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 324, 113-117.	2.6	279
72	Development of Creep Resistant Mg-Gd-Sc Alloys with Low Sc Content. Materialwissenschaft Und Werkstofftechnik, 2001, 32, 20-24.	0.5	19

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73	Microstructure Evolution in Isochronally Heat Treated Mg-Gd Alloys. <i>Physica Status Solidi A</i> , 1999, 175, 491-500.	1.7	199
74	Electrical Resistivity and Positron Lifetime Studies of Precipitation Effects in Al-Cu-Based Alloys. <i>Acta Physica Polonica A</i> , 1999, 95, 627-631.	0.2	0
75	Defect analysis in high temperature deformed Al single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 234-236, 438-440.	2.6	0
76	Resistivity Changes Due to Precipitation Effects in Fibre Reinforced Mg-Al-Zn-Mn Alloy. <i>Physica Status Solidi A</i> , 1997, 161, 85-95.	1.7	30
77	Microstructure Changes in Isochronally Annealed Alumina Fibre Reinforced Mg-Ag-Nd-Zr Alloy. <i>Physica Status Solidi A</i> , 1997, 164, 709-723.	1.7	27
78	Phase composition and jerky flow in Al ₇₅ Li ₁₅ Mg ₁₀ Cu alloy. <i>Physica Status Solidi A</i> , 1996, 157, 217-227.	1.7	6
79	Recovery and recrystallization of rapidly solidified Mg ribbons. <i>Physica Status Solidi A</i> , 1996, 157, 345-350.	1.7	0
80	Thermal stability of rapidly solidified Mg alloyed with Co, Si, and Sn. <i>Physica Status Solidi A</i> , 1996, 157, K21-K23.	1.7	0
81	Electrical Resistometry of Mg-Based Microcrystalline Alloys and Mg-Based Composites. <i>Materials Science Forum</i> , 1996, 210-213, 635-642.	0.3	4
82	Inhomogeneity of Mechanical and Electrical Properties of Al-Li-Based Alloys Extrusions. <i>Materials Science Forum</i> , 1996, 217-222, 987-992.	0.3	1
83	Deformation Instabilities in Al-Li Based Alloys. <i>Materials Science Forum</i> , 1996, 217-222, 1049-1054.	0.3	4
84	Annealing Effects in Melt Spun Microcrystalline Ribbons of Mg-Y and Mg-Nd Alloys. <i>Key Engineering Materials</i> , 1995, 97-98, 29-36.	0.4	4
85	Jerky Flow in Al-Li-Mg-Cu Alloy. <i>Key Engineering Materials</i> , 1995, 97-98, 257-262.	0.4	1
86	Structure and stability of microcrystalline Mg-Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991, 137, 87-92.	2.6	20
87	Recrystallization of the superplastic Zn-Cd alloy. <i>European Physical Journal D</i> , 1988, 38, 409-412.	0.4	2
88	Mechanical and electrical properties of supersaturated Mg based alloys. <i>European Physical Journal D</i> , 1985, 35, 221-224.	0.4	1
89	Recovery and recrystallization in AISI 321 steel under static conditions. <i>European Physical Journal D</i> , 1985, 35, 257-260.	0.4	1
90	Temperature dependence of creep of Cd-Ag single crystals between 1.55 and 45 K. <i>Physica Status Solidi A</i> , 1981, 63, 717-722.	1.7	6

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91	Deformation of Cd-based alloys single crystals at very low temperatures. European Physical Journal D, 1981, 31, 130-132.	0.4	5
92	Recovery during stress relaxation in Cd-Ag alloy single crystals. European Physical Journal D, 1981, 31, 664-667.	0.4	14
93	The critical resolved shear stress of Cd-Ag single crystals at low temperatures. Physica Status Solidi A, 1977, 41, K197-K198.	1.7	14
94	Stress relaxation in cadmium-silver alloy single crystals. European Physical Journal D, 1975, 25, 745-750.	0.4	3
95	Concentration dependence of the critical resolved shear stress of cadmium-silver alloy single crystals at low temperatures. European Physical Journal D, 1974, 24, 648-653.	0.4	19
96	Effect of Sc and Zr Additions on Microstructure and Mechanical Properties of Conventional Cast and P/M Aluminium. Materials Science Forum, 0, 567-568, 357-360.	0.3	7
97	Microstructure Development and Ductility of Ultra-Fine Grained Mg-Gd Alloy Prepared by High Pressure Torsion. Materials Science Forum, 0, 633-634, 353-363.	0.3	2
98	Influence of Deformation on Precipitation Kinetics in Mg-Tb Alloy. Defect and Diffusion Forum, 0, 322, 151-162.	0.4	4
99	Diffusion Processes in Early Stages of Precipitation in Mg-Gd and Mg-Tb Alloys. Defect and Diffusion Forum, 0, 333, 51-60.	0.4	0
100	Response of Hot-Extruded Al-Mn-Sc-Zr Alloy to Annealing with Constant Heating Rate. Defect and Diffusion Forum, 0, 334-335, 161-166.	0.4	2
101	Precipitation Processes in Mg-Y-Nd Alloys. Defect and Diffusion Forum, 0, 334-335, 155-160.	0.4	2
102	Phase Transformations and Recrystallization in Cold-Rolled Al-Mn, Al-Sc-Zr and Al-Mn-Sc-Zr Alloy. Defect and Diffusion Forum, 0, 354, 93-100.	0.4	2
103	Influence of Natural Ageing on Precipitation Processes during Isochronal Annealing in MgGd Alloys. Defect and Diffusion Forum, 0, 365, 42-48.	0.4	3
104	Development of Microstructure and Properties of Mg-Y-(Nd)-Zn Alloys during Heat and Mechanical Treatment. Defect and Diffusion Forum, 0, 369, 157-162.	0.4	1
105	Phase Transformations and Recrystallization in Cold-Rolled Al-Mg-Sc-Zr Alloy Prepared by Powder Metallurgy. Defect and Diffusion Forum, 0, 380, 161-166.	0.4	6
106	Identification and Characterization of Phase Transformations by the Resistivity Measurements in Mg-RE-Mn Alloys. Solid State Phenomena, 0, , 57-62.	0.3	1