

Ivana StulÃ¡kovÃ¡

List of Publications by Year in descending order

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106
papers

1,957
citations

304602

22
h-index

276775

41
g-index

112
all docs

112
docs citations

112
times ranked

1170
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural aspects of high performance Mg alloys design. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 324, 113-117.	2.6	279
2	Microstructure Evolution in Isochronally Heat Treated Mg-Gd Alloys. <i>Physica Status Solidi A</i> , 1999, 175, 491-500.	1.7	199
3	Significance of stable and metastable phases in high temperature creep resistant magnesium-rare earth base alloys. <i>Journal of Alloys and Compounds</i> , 2004, 378, 196-201.	2.8	115
4	Thermal stability of ultrafine grained copper. <i>Physical Review B</i> , 2002, 65, .	1.1	106
5	Mechanisms of creep deformation in Mg-Sc-based alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 1729-1736.	1.1	78
6	Microstructure and thermal stability of ultra fine grained Mg-based alloys prepared by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 462, 121-126.	2.6	67
7	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
8	Thermal stability and corrosion behaviour of Mg-Y-Nd and Mg-Tb-Nd alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 462, 329-333.	2.6	58
9	Influence of deformation on precipitation process in Mg-15wt.%Gd alloy. <i>Journal of Alloys and Compounds</i> , 2007, 430, 92-96.	2.8	56
10	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
11	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
12	Microstructure, mechanical properties and corrosion behaviour of dilute Al-Sc-Zr alloy prepared by powder metallurgy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 464, 358-364.	2.6	38
13	Equilibrium and transient phases in Mg-Y-Nd ternary alloys. <i>Journal of Alloys and Compounds</i> , 2004, 381, L1-L2.	2.8	37
14	Microstructure, corrosion resistance and cytocompatibility of Mg-5Y-4Rare Earth-0.5Zr (WE54) alloy. <i>Materials Science and Engineering C</i> , 2012, 32, 659-664.	3.8	37
15	Thermal development of microstructure and precipitation effects in Mg-10wt%Gd alloy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 466-477.	0.8	31
16	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
17	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
18	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

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19	Mechanical properties and creep of Mg - rare earth - Sc - Mn squeeze cast alloys. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003, 34, 102-108.	0.5	25
20	Creep behaviour of the creep resistant MgY3Nd2Zn1Mn1 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 489, 93-98.	2.6	25
21	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
22	Hydrogen absorption in Mg-Gd alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22598-22604.	3.8	24
23	Annealing effects in Al-Sc alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 462, 370-374.	2.6	23
24	Microhardness and In Vitro Corrosion of Heat-Treated Mg-Y-Ag Biodegradable Alloy. <i>Materials</i> , 2017, 10, 55.	1.3	23
25	Annealing process in quenched Al-Sn alloys: a positron annihilation study. <i>Physical Review B</i> , 2005, 71, .	1.1	21
26	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
27	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
28	Concentration dependence of the critical resolved shear stress of cadmium-silver alloy single crystals at low temperatures. <i>European Physical Journal D</i> , 1974, 24, 648-653.	0.4	19
29	Development of Creep Resistant Mg-Gd-Sc Alloys with Low Sc Content. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2001, 32, 20-24.	0.5	19
30	Ultra Fine-Grained Metals Prepared by Severe Plastic Deformation: A Positron Annihilation Study. <i>Acta Physica Polonica A</i> , 2005, 107, 745-752.	0.2	17
31	Microstructure and Phase Changes Due to Heat Treatment of Squeeze Cast Mg-Sc-(Ce)-Mn Alloys. <i>Physica Status Solidi A</i> , 2002, 191, 305-316.	1.7	16
32	Positron-Lifetime Investigation of Thermal Stability of Ultra-Fine Grained Nickel. <i>Physica Status Solidi A</i> , 2002, 191, 391-408.	1.7	16
33	Natural and artificial aging in Mg-Gd binary alloys. <i>Journal of Alloys and Compounds</i> , 2018, 738, 173-181.	2.8	16
34	The critical resolved shear stress of Cd-Ag single crystals at low temperatures. <i>Physica Status Solidi A</i> , 1977, 41, K197-K198.	1.7	14
35	Recovery during stress relaxation in Cd-Ag alloy single crystals. <i>European Physical Journal D</i> , 1981, 31, 664-667.	0.4	14
36	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

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37	Microstructure and Thermal Stability of Ultra Fine Grained Mg-Based Alloys Prepared by High Pressure Torsion. <i>Materials Science Forum</i> , 2006, 503-504, 149-154.	0.3	13
38	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
39	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
40	Effect of Sc and Zr additions on the microstructure and age hardening of an AlMg3MnCr alloy Structure and age hardening of AlMgMnCrScZr. <i>Materials Characterization</i> , 2003, 51, 11-20.	1.9	11
41	New High Temperature Creep Resistant Mg-YNd-Sc-Mn Alloy. <i>Physica Status Solidi A</i> , 2002, 190, R5-R7.	1.7	10
42	Precipitation Effects in Ultra-Fine-Grained Mg-RE Alloys. <i>International Journal of Materials Research</i> , 2009, 100, 780-784.	0.1	10
43	Microstructure and Thermal Stability of Ultra Fine Grained Mg and Mg-Gd Alloys Prepared by High-Pressure Torsion. <i>Materials Science Forum</i> , 2005, 482, 183-186.	0.3	9
44	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
45	Annealing effects in hot-deformed Al-Mn-Sc-Zr alloys. <i>Metallic Materials</i> , 2021, 52, 295-304.	0.2	9
46	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
47	Influence of processing technology on phase transformations in a rare-earth-containing Mg-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 462, 334-338.	2.6	8
48	Natural aging of Mg-Gd and Mg-Tb alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2135-2141.	0.8	8
49	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
50	Defects in Ultra-Fine Grained Mg and Mg-Based Alloys Prepared by High Pressure Torsion Studied by Positron Annihilation. <i>Acta Physica Polonica A</i> , 2005, 107, 738-744.	0.2	8
51	Structure and Morphology of Effective Obstacles in High Performance Mg - Rare Earth Base Alloys. , 2005, , 43-48.		7
52	Effect of Sc and Zr Additions on Microstructure and Mechanical Properties of Conventional Cast and P/M Aluminium. <i>Materials Science Forum</i> , 0, 567-568, 357-360.	0.3	7
53	Temperature dependence of creep of Cd _{1-x} Ag single crystals between 1.55 and 45 K. <i>Physica Status Solidi A</i> , 1981, 63, 717-722.	1.7	6
54	Phase composition and jerky flow in Al _{1-x} Li _x Mg _{1-x} Cu alloy. <i>Physica Status Solidi A</i> , 1996, 157, 217-227.	1.7	6

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55	Phase transformations in MgTbNd alloy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2741-2748.	0.8	6
56	Phase Transformations and Recrystallization in Cold-Rolled Al-Mg-Sc-Zr Alloy Prepared by Powder Metallurgy. <i>Defect and Diffusion Forum</i> , 0, 380, 161-166.	0.4	6
57	Deformation of Cd-based alloys single crystals at very low temperatures. <i>European Physical Journal D</i> , 1981, 31, 130-132.	0.4	5
58	Aluminium Alloys on the Basis of Al-Cu-Mg, Lead-Free, Intended for Cutting. <i>Materials Science Forum</i> , 2002, 396-402, 1641-1646.	0.3	5
59	Identification and Characterization of Phase Transformations by the Resistivity Measurements in Mg-RE-Mn Alloys. <i>Solid State Phenomena</i> , 2008, 138, 57-62.	0.3	5
60	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
61	Electrical Resistometry of Mg-Based Microcrystalline Alloys and Mg-Based Composites. <i>Materials Science Forum</i> , 1996, 210-213, 635-642.	0.3	4
62	Deformation Instabilities in Al-Li Based Alloys. <i>Materials Science Forum</i> , 1996, 217-222, 1049-1054.	0.3	4
63	Influence of Deformation on Precipitation Kinetics in Mg-Tb Alloy. <i>Defect and Diffusion Forum</i> , 0, 322, 151-162.	0.4	4
64	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
65	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
66	Stress relaxation in cadmium-silver alloy single crystals. <i>European Physical Journal D</i> , 1975, 25, 745-750.	0.4	3
67	Phase transformations in creep resistant MgYNdScMn alloy. <i>International Journal of Materials Research</i> , 2005, 96, 823-827.	0.8	3
68	Cavitation and grain boundary sliding during creep of Mg-Y-Nd-Zn-Mn alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, s64-s68.	1.7	3
69	Microstructure Development and Precipitation Effects in Ultra Fine Grained Mg-3Tb-2Nd Alloy Prepared by High Pressure Torsion. <i>Materials Science Forum</i> , 2008, 584-586, 591-596.	0.3	3
70	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
71	Influence of Natural Ageing on Precipitation Processes during Isochronal Annealing in MgGd Alloys. <i>Defect and Diffusion Forum</i> , 0, 365, 42-48.	0.4	3
72	Influence of powder metallurgy route on precipitation processes in MgTbNd alloy. <i>Materials Characterization</i> , 2016, 112, 149-154.	1.9	3

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73	Degradable Mg-Y-Nd-Mn alloys modified by Sc or Zn. <i>Metallic Materials</i> , 2013, 50, 351-356.	0.2	3
74	Recrystallization of the superplastic Zn-Cd alloy. <i>European Physical Journal D</i> , 1988, 38, 409-412.	0.4	2
75	Microstructure Development and Ductility of Ultra-Fine Grained Mg-Gd Alloy Prepared by High Pressure Torsion. <i>Materials Science Forum</i> , 0, 633-634, 353-363.	0.3	2
76	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
77	Response of Hot-Extruded Al-Mn-Sc-Zr Alloy to Annealing with Constant Heating Rate. <i>Defect and Diffusion Forum</i> , 0, 334-335, 161-166.	0.4	2
78	Precipitation Processes in Mg-Y-Nd Alloys. <i>Defect and Diffusion Forum</i> , 0, 334-335, 155-160.	0.4	2
79	Phase Transformations and Recrystallization in Cold-Rolled Al-Mn, Al-Sc-Zr and Al-Mn-Sc-Zr Alloy. <i>Defect and Diffusion Forum</i> , 0, 354, 93-100.	0.4	2
80	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
81	Mechanical and electrical properties of supersaturated Mg based alloys. <i>European Physical Journal D</i> , 1985, 35, 221-224.	0.4	1
82	Recovery and recrystallization in AISI 321 steel under static conditions. <i>European Physical Journal D</i> , 1985, 35, 257-260.	0.4	1
83	Jerky Flow in Al-Li-Mg-Cu Alloy. <i>Key Engineering Materials</i> , 1995, 97-98, 257-262.	0.4	1
84	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
85	Aging Response of Mg-Rare Earth Alloys with Low Scandium Content. , 2006, , 92-97.		1
86	Hydrogen Trapping at Defects in Pd and Thermally Activated Desorption. <i>Defect and Diffusion Forum</i> , 2015, 365, 36-41.	0.4	1
87	Development of Microstructure and Properties of Mg-Y-(Nd)-Zn Alloys during Heat and Mechanical Treatment. <i>Defect and Diffusion Forum</i> , 0, 369, 157-162.	0.4	1
88	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
89	Effects in Mg-Zn-based alloys strengthened by quasicrystalline phase. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012005.	0.3	1
90	Measurement of corrosion behaviour of magnesium alloys developed for application in biomaterials area. <i>Metallic Materials</i> , 2021, 52, 189-195.	0.2	1

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91	Identification and Characterization of Phase Transformations by the Resistivity Measurements in Mg-RE-Mn Alloys. Solid State Phenomena, 0, , 57-62.	0.3	1
92	Recovery and recrystallization of rapidly solidified Mg ribbons. Physica Status Solidi A, 1996, 157, 345-350.	1.7	0
93	Thermal stability of rapidly solidified Mg alloyed with Co, Si, and Sn. Physica Status Solidi A, 1996, 157, K21-K23.	1.7	0
94	Defect analysis in high temperature deformed Al single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 234-236, 438-440.	2.6	0
95	Mechanical Inhomogeneity of Extruded Al-Li Based Profiles. Materials Science Forum, 2002, 396-402, 1241-1246.	0.3	0
96	Dependence of Thermal Stability of Ultra Fine Grained Metals on Grain Size. , 2005, , 630-635.		0
97	Microstructure of Ultra Fine Grained Mg and Mg-10 wt.% Cd Prepared by High-Pressure Torsion. , 2005, , 202-207.		0
98	Ageing Characteristics and Creep Resistance of Mg-Y-Nd-Sc-Mn Alloy. , 2005, , 116-121.		0
99	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
100	Defects in Mg-Zn-Y-Nd Alloys with Icosahedral Phase. Physics Procedia, 2012, 35, 45-50.	1.2	0
101	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
102	Annealing Effects in Mg-Y-Zn Alloys Prepared by Powder Metallurgy and by Squeeze Casting. Defect and Diffusion Forum, 2014, 353, 183-188.	0.4	0
103	The Effect of Heat Treatment on Morphology and Phase Composition of Grain Boundary Phases in Mg-Zn-Y-Nd-Zr. Defect and Diffusion Forum, 2015, 365, 30-35.	0.4	0
104	Electrical Resistivity and Positron Lifetime Studies of Precipitation Effects in Al-Cu-Based Alloys. Acta Physica Polonica A, 1999, 95, 627-631.	0.2	0
105	Phase transformations due to isochronal annealing of Mg “rare earth” “Mn squeeze cast alloys. International Journal of Materials Research, 2022, 94, 553-558.	0.1	0
106	Phase transformations in creep resistant MgYNdScMn alloy. International Journal of Materials Research, 2022, 96, 823-827.	0.1	0