Zuzanka Trojanova

List of Publications by Citations

158 papers	1,696 citations	22 h-index	35 g-index
167 ext. papers	1,829 ext. citations	2.8 avg, IF	4.47 L-index

#	Paper	IF	Citations
158	Deformation behaviour of Mgâ□iâ□l alloys. *Journal of Alloys and Compounds*, **2004**, 378, 192-195	5.7	130
157	Strengthening in a WE54 magnesium alloy containing SiC particles. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 225-229	5.3	94
156	Strengthening in Mgâ□i matrix composites. *Composites Science and Technology*, **2007**, 67, 1965-1973	8.6	65
155	Mechanical and fracture properties of an AZ91 Magnesium alloy reinforced by Si and SiC particles. *Composites Science and Technology*, **2009**, 69, 2256-2264	8.6	62
154	Deformation behaviour of Mgâ□i alloys at elevated temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 410-411, 148-151	5.3	62
153	Investigating deformation processes in AM60 magnesium alloy using the acoustic emission technique. *Acta Materialia*, **2006**, 54, 5361-5366	8.4	57
152	Compressive deformation behaviour of magnesium alloys. *Journal of Materials Processing Technology*, **2005**, 162-163, 416-421	5.3	56
151	Significance of twinning in the anisotropic behavior of a magnesium alloy processed by equal-channel angular pressing. *Scripta Materialia*, **2010**, 63, 504-507	5.6	50
150	Investigation of tensionâ□compression asymmetry of magnesium by use of the acoustic emission technique. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 5904-5907	5.3	44
149	Hardening and softening in deformed magnesium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 324, 141-144	5.3	43
148	Evaluating plastic anisotropy in two aluminum alloys processed by equal-channel angular pressing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2008**, 497, 206-211	5.3	41
147	Stress Relaxation in AX41 Magnesium Alloy Studied at Elevated Temperatures. *Advanced Engineering Materials*, **2007**, 9, 370-374	3.5	40
146	Modeling of hardening and softening processes in Mg alloys. *Journal of Alloys and Compounds*, **2004** , 378, 176-179	5.7	40
145	Mechanical spectroscopy of commercial AZ91 magnesium alloy. *Scripta Materialia*, **2001**, 45, 1365-1371	5.6	35
144	Hardening and softening in selected magnesium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 23-28	5.3	32
143	Internal friction in microcrystalline and nanocrystalline Mg. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 370, 154-157	5.3	29
142	Internal stress and thermally activated dislocation motion in an AZ63 magnesium alloy. *Materials Chemistry and Physics*, **2011**, 130, 1146-1150	4.4	27

141	Deformation behaviour of Mgâ0.7 wt.% Nd alloy. *Journal of Alloys and Compounds*, **2004**, 378, 180-183	5.7	24
140	Mechanical properties of Mg alloys composites reinforced with short Saffil fibres. *Journal of Alloys and Compounds*, **2004**, 378, 19-26	5.7	24
139	Study of relaxation of residual internal stress in Mg composites by internal friction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 324, 122-126	5.3	23
138	Thermally activated processes in microcrystalline Mg. *Scripta Materialia*, **2000**, 42, 1095-1100	5.6	23
137	Internal friction in microcrystalline magnesium reinforced by alumina particles. *Journal of Alloys and Compounds*, **2000**, 310, 396-399	5.7	22
136	Investigation of some magnesium alloys by use of the acoustic emission technique. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 387-389, 331-335	5.3	21
135	The Portevin-Le Chelier effect in Al-2.92%Mg-0.38%Mn alloy and linear location of acoustic emission. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1993**, 164, 260-265	5.3	20
134	Microstructure of superplastic QE22 and EZ33 magnesium alloys. *Materials Letters*, **2008**, 62, 4041-4043	3.3	19
133	The Effect of Grain Size on the Deformation Behaviour of Selected Mg Alloys. *Materials Science Forum*, **2007**, 567-568, 85-88	0.4	18
132	Deformation behaviour of an AS21 alloy reinforced by short Saffil fibres and SiC particles. *Journal of Materials Processing Technology*, **2005**, 162-163, 131-138	5.3	17
131	Influence of Accumulative Roll Bonding on the Texture and Tensile Properties of an AZ31 Magnesium Alloy Sheets. *Materials*, **2018**, 11,	3.5	16
130	Physical aspects of plastic deformation in Mgâal alloys with Sr and Ca. *International Journal of Materials Research*, **2009**, 100, 270-276	0.5	16
129	On the strain to the onset of serrated flow in a magnesium alloy. *Scripta Materialia*, **2007**, 56, 793-796	5.6	16
128	Influence of Processing Techniques on Microstructure and Mechanical Properties of a Biodegradable Mg-3Zn-2Ca Alloy. *Materials*, **2016**, 9,	3.5	16
127	Acoustic emission from zinc deformed at room temperature Part I The influence of strain rate on deformation behaviour and acoustic emission in pure zinc. *Journal of Materials Science Letters*, **1993**, 12, 1086-1087		14
126	Tensile and fracture properties of an Mg-RE-Zn alloy at elevated temperatures. *Journal of Rare Earths*, **2014**, 32, 564-572	3.7	13
125	Acoustic emission from deformed magnesium alloy based composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 2479-2483	5.3	13
124	Fatigue in magnesium alloy AZ91-Alumina fiber composite studied by internal friction measurements. *Procedia Engineering*, **2010**, 2, 2151-2160		13

123	Dynamic Strain Ageing During Stress Relaxation in Selected Magnesium Alloys Containing Rare earth Elements. *Advanced Engineering Materials*, **2005**, 7, 1027-1032	3.5	13
122	Hardening and softening in Zr?Sn polycrystals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1993**, 164, 246-251	5.3	13
121	Characterisation of dynamic strain ageing in two magnesium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 387-389, 80-83	5.3	12
120	Solid solution hardening of cadmium single crystals. *Physica Status Solidi A*, **1979**, 53, K143-K145		12
119	Influence of texture on the thermal expansion coefficient of Mg/BN nanocomposite. *Thermochimica Acta*, **2016**, 644, 69-75	2.9	12
118	Internal stresses during creep of magnesium alloys at 523K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 215-219	5.3	11
117	Cyclic bending and the damping behaviour of short fibre-reinforced magnesium alloy AZ91. *Composites Science and Technology*, **2006**, 66, 585-590	8.6	11
116	Thermal stability of copper reinforced by nanoscaled and microscaled alumina particles investigated by internal friction. *Scripta Materialia*, **1999**, 40, 1063-1069	5.6	11
115	Discontinuouslow temperature deformation of Zr?Sn alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1991**, 137, 151-155	5.3	11
114	Degradation of the mechanical properties of a MgâliâAl composite at elevated temperatures studied by the stress relaxation technique. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 234-238	5.3	10
113	Influence of mechanical cycling on damping behaviour of short fibre-reinforced magnesium alloy QE22. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 442, 484-487	5.3	10
112	Changes in the microstructure of QE22 composites estimated by non-destructive methods. *Journal of Alloys and Compounds*, **2002**, 339, 327-334	5.7	10
111	Creep of Al-3wt.%Mg as measured with the incremental loading method. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1991**, 148, 7-14	5.3	10
110	Micro-Tensile Behavior of Mg-Al-Zn Alloy Processed by Equal Channel Angular Pressing (ECAP). *Materials*, **2018**, 11,	3.5	10
109	Deformation behaviour of an AJ50 magnesium alloy at elevated temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 202-205	5.3	9
108	Thermally activated deformation of Alpha Zirconium. *Crystal Research and Technology*, **1984**, 19, 401-405	1.3	9
107	Effect of the fiber orientation on the deformation mechanisms of magnesium-alloy based composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 643, 25-31	5.3	8
106	Thermal Conductivity of an AZ31 Sheet after Accumulative Roll Bonding. *Crystals*, **2018**, 8, 278	2.3	8

105	Acoustic emission from deformed MgâYâNd alloy and this alloy reinforced with SiC particles. *Journal of Alloys and Compounds*, **2010**, 504, L28-L30	5.7	8
104	Plastic deformation of Zr-Sn polycrystals at intermediate temperatures. *Journal of Materials Science* , **1995**, 30, 2930-2935	4.3	8
103	The Portevin-Le Chatelier effect in Al-3% Mg and Al-2.92% Mg-0.38% Mn investigated by the acoustic emission technique. *Journal of Materials Science Letters*, **1992**, 11, 91-93		8
102	Plastic Properties of a Mg-Al-Ca Alloy Reinforced with Short Saffil Fibers. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 29-35	2.3	7
101	Influence of the strain rate on deformation mechanisms of an AZ31 magnesium alloy. *International Journal of Materials Research*, **2013**, 104, 762-768	0.5	7
100	Plastic Properties of Microcrystalline Mg with Ceramic Nanoparticles. *Materials Science Forum*, **2007** , 567-568, 189-192	0.4	7
99	The Portevin-Le ChÊelier Effect in Cu-Al Single Crystals Investigated by Acoustic Emission and Slip Line Cinematography. *Key Engineering Materials*, **1995**, 97-98, 263-268	0.4	7
98	Damping in Magnesium Matrix Composites. *Materials Science Forum*, **1996**, 210-213, 619-626	0.4	7
97	Plastic deformation of alpha-zirconium polycrystals. *European Physical Journal D*, **1985**, 35, 298-301		7
96	In situ investigation of deformation mechanisms in magnesium-based metal matrix composites. *Metals and Materials International*, **2015**, 21, 652-658	2.4	6
95	Dislocation Generation in Mg Matrix Composites due to Thermal Cycling. *Key Engineering Materials*, **1996**, 127-131, 1001-1008	0.4	6
94	Acoustic emission from zinc deformed at room temperature Part II The influence of grain size on deformation behaviour and acoustic emission of pure zinc. *Journal of Materials Science Letters*, **1993**, 12, 1166-1168		6
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92	SPD Processed Materials Mechanical Properties Determination with the Use of Miniature Specimens. *Materials Science Forum*, **2016**, 879, 471-476	0.4	5
91	Internal Friction in Magnesium Alloys and Magnesium Alloys- Based Composites **2017**,		5
90	Damping behaviour of a MgâAlâCa alloy reinforced by short Saffil fibres. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 521-522, 314-317	5.3	5
89	Deformation Behaviour of AX91 and AJ62 Mg Alloys. *Procedia Engineering*, **2011**, 10, 2318-2323		5
88	Internal friction in a QE22 hybrid composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 370, 542-545	5.3	5

87	Propagation of localized slip bands in low-temperature deformation of CuâBe. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 324, 208-213	5.3	5
86	An analysis of the stress relaxation curves. *European Physical Journal D*, **1985**, 35, 292-297		5
85	Hardening and softening in an MgâAlâCa matrix alloy reinforced with short graphite fibres. *International Journal of Materials Research*, **2009**, 100, 399-402	0.5	5
84	Anelastic Properties of Nanocrystalline Magnesium413-419		5
83	Local Mechanical Properties and Microstructure of EN AW 6082 Aluminium Alloy Processed via ECAP-Conform Technique. *Materials*, **2020**, 13,	3.5	4
82	Amplitude Dependent Internal Friction in a Mg-Al-Zn Alloy Studied after Thermal and Mechanical Treatment. *Metals*, **2017**, 7, 433	2.3	4
81	Elastic and Plastic Behavior of an Ultrafine-Grained Mg Reinforced with BN Nanoparticles. *Journal of Materials Engineering and Performance*, **2018**, 27, 3112-3121	1.6	4
80	Hardening and Softening in Magnesium Alloys **2011**,		4
79	Stress Relaxation in an AZ31 Magnesium Alloy. *Key Engineering Materials*, **2011**, 465, 101-104	0.4	4
78	Damage in fiber reinforced and unreinforced AZ91 studied by internal friction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 230-233	5.3	4
77	Plastic and fatigue behaviour of ultrafine-grained magnesium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 483-484, 477-480	5.3	4
76	Microstructural changes in ZE41 composite estimated by acoustic measurements. *Journal of Alloys and Compounds*, **2003**, 355, 113-119	5.7	4
75	Deformation Processes in Mg-Li-Al Base Composites. *Materials Science Forum*, **2003**, 419-422, 817-822	0.4	4
74	Effect of Thermal Cycling on the Damping Behaviour of Mg Matrix Composites. *Key Engineering Materials*, **1996**, 127-131, 993-1000	0.4	4
73	YoungR Modulus of Zirconium Poiycrystals as a Function of Temperature between 6 and 320 K. *Physica Status Solidi A*, **1991**, 125, K17-K20		4
72	Thermally (non-)activated deformation of Zr-Sn polycrystals. *European Physical Journal D*, **1988**, 38, 482-484		4
71	Effect of Rotary Swaging on Microstructure and Mechanical Properties of an AZ31 Magnesium Alloy. *Advanced Engineering Materials*, **2020**, 22, 1900596	3.5	4
70	Optimization of the Mechanical Performance of Titanium for Biomedical Applications by Advanced, High-Gain SPD Technology. *Crystals*, **2020**, 10, 422	2.3	3

69	High frequency cycling behaviour of three AZ magnesium alloys â microstructural characterisation. *International Journal of Materials Research*, **2016**, 107, 903-915	0.5	3
68	High-pressure torsion deformation of a magnesium-based nanocomposite. *International Journal of Materials Research*, **2009**, 100, 906-909	0.5	3
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66	Internal Friction in Extruded Aluminium Alloy. *Solid State Phenomena*, **2012**, 184, 197-202	0.4	3
65	Stress Relaxation in Selected Magnesium Alloys. *Key Engineering Materials*, **2007**, 345-346, 1613-1616	0.4	3
64	Mechanical Properties of AS21 Magnesium Alloy Based Composites. *Materials Science Forum*, **2005**, 482, 363-366	0.4	3
63	Softening during Deformation of Zr Alloys. *Key Engineering Materials*, **1995**, 97-98, 359-364	0.4	3
62	Unstable low temperature deformation in a Cu-2 Be alloy. *European Physical Journal D*, **1996**, 46, 2729-2730		3
61	Internal Friction in Zirconium Polycrystals. *Physica Status Solidi A*, **1991**, 125, K13-K16		3
60	Elastic constants of the alloys Cd1â Zn x (x. *European Physical Journal D*, **1982**, 32, 899-906		3
59	Superplastic Behaviour of an Mg-Ag-RE Magnesium Alloy. *Acta Physica Polonica A*, **2015**, 128, 765-768	0.6	3
58	Strain Hardening in an AZ31 Alloy Submitted to Rotary Swaging. *Materials*, **2020**, 14,	3.5	3
57	Strengthening and Thermally Activated Processes in an AX61/Saffil Metal Matrix Composite. *Crystals*, **2020**, 10, 466	2.3	2
56	Magnesium Reinforced with Inconel 718 Particles Prepared Ex Situ-Microstructure and Properties. *Materials*, **2020**, 13,	3.5	2
55	Neutron Diffraction and Acoustic Emission Study of Mg-Al-Sr Alloy Reinforced with Short Saffil Fibers Deformed in Compression. *Materials Science Forum*, **2014**, 777, 92-98	0.4	2
54	Study of thermally activated dislocation motion in AJ51 and AE42 magnesium alloys. *Journal of Physics: Conference Series*, **2010**, 240, 012019	0.3	2
53	Thermal stresses in MgâAgâNd alloy reinforced by short Saffil fibers studied by internal friction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2006**, 442, 480-483	5.3	2
52	Thermally Activated Dislocation Motion Studied by Internal Friction. *Defect and Diffusion Forum*, **2002**, 203-205, 249-252	0.7	2

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48	Elastic and Anelastic Behaviour of Zirconium Polycrystals. *Materials Science Forum*, **1996**, 210-213, 495-502	0.4	2
47	Internal Friction in Magnesium and Magnesium Calcium Alloys Prepared by Rapid Solidification. *Materials Science Forum*, **1996**, 210-213, 825-830	0.4	2
46	Temperature dependence of Young□s modulus of □zirconium polycrystals. *Physica Status Solidi A*, **1988**, 107, K11-K13		2
45	On precipitation hardening in Cd-Zn alloy. *European Physical Journal D*, **1978**, 28, 113-116		2
44	Texture analysis of zirconium samples deformed by uniaxial tension using neutron and X-ray diffraction. *IOP Conference Series: Materials Science and Engineering*, **2015**, 82, 012022	0.4	1
43	Effect of Equal Channel Angular Extrusion on the Thermal Conductivity of an AX52 Magnesium Alloy. *Crystals*, **2020**, 10, 497	2.3	1
42	Experimental Study on the Relation between Elastic and Thermal Deformation of the AZ31 Magnesium Alloy and Composite. *Key Engineering Materials*, **2011**, 465, 423-426	0.4	1
41	Cracks Detection in Mg Alloy by Electro-Ultrasonic Spectroscopy. *Key Engineering Materials*, **2011**, 465, 294-297	0.4	1
40	Enhanced Plasticity of WE54/SiC Composite Prepared by Powder Metallurgy. *Key Engineering Materials*, **2011**, 465, 419-422	0.4	1
39	Fatigue Behavior of Magnesium Alloy AJ91 Studied by Amplitude Dependent Damping Measurements. *Solid State Phenomena*, **2012**, 184, 185-190	0.4	1
38	Amplitude Dependent Internal Friction of Magnesium Alloy AZ31 at Room Temperature. *Solid State Phenomena*, **2012**, 184, 179-184	0.4	1
37	Deformation behaviour of microcrystalline magnesium reinforced by alumina nano- and microparticles. *International Journal of Materials Research*, **2009**, 100, 403-406	0.5	1
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35	Superplasticity of an AZ91 Magnesium Alloy. *Materials Science Forum*, **2007**, 567-568, 365-368	0.4	1
34	Microstructural Characterization by Nondestructive Methods. *Materials Science Forum*, **2005**, 482, 103-108	0.4	1

33	Plastic Deformation of Polycrystalline Zn-0.25%Cd Alloy and Linear Location of Acoustic Emission. *Key Engineering Materials*, **1995**, 97-98, 407-412	0.4	1
32	Thermally activated process in deformed alpha titanium. *European Physical Journal D*, **1988**, 38, 491-493		1
31	Effect of Short Saffil Fibres and SIC Particles on Mechanical Properties of Magnesium Alloys **2009**, 11, 10-16		1
30	Deformation behaviour of ultrafine-grained magnesium with 3 vol.% graphite. *International Journal of Materials Research*, **2006**, 97, 344-349		1
29	Hardening and Softening Processes in an AJ51 Magnesium Alloy Reinforced with Short Saffil Fibres **2014**, 435-440		1
28	Studying the Thermally Activated Processes Operating during Deformation of hcp and bcc Mgâ□li Metal-Matrix Composites. *Metals*, **2021**, 11, 473	2.3	1
27	Superplastic Behaviour of Selected Magnesium Alloys **2018**,		1
26	Elastic and Plastic Behavior of the QE22 Magnesium Alloy Reinforced with Short Saffil Fibers and SiC Particles. *Metals*, **2018**, 8, 133	2.3	1
25	Hardening and Softening Processes in AJ51 Magnesium Alloy Reinforced with Short Saffil Fibres435-440		1
24	Amplitude Dependent Internal Friction in Strained Magnesium Alloys of AZ Series. *Crystals*, **2020**, 10, 608	2.3	0
23	Analysis of preferential orientation in zirconium samples deformed by uniaxial tension using neutron and X-ray diffraction. *Powder Diffraction*, **2015**, 30, S52-S55	1.8	
22	Deformation and Fracture of a Magnesium Alloy at Elevated Temperatures. *Key Engineering Materials*, **2013**, 592-593, 75-78	0.4	
21	Thermally Activated Dislocation Motion in an AS21 Alloy and Alloy Reinforced with Short Ceramic Fibres Studied at Elevated Temperatures. *Key Engineering Materials*, **2013**, 592-593, 71-74	0.4	
20	Elastic and plastic properties of ultrafine-grained magnesium. *International Journal of Materials and Product Technology*, **2011**, 40, 120	1	
19	Enhanced Plasticity of a Mg-8Li Alloy Reinforced with SiC Particles. *Key Engineering Materials*, **2011**, 465, 378-381	0.4	
18	Deformation Behaviour of an AX41 Magnesium Alloy at Elevated Temperatures. *Materials Science Forum*, **2007**, 567-568, 321-324	0.4	
17	Changes in the Microstructure of Mg-Nd Based Composites Due to Thermal Loading Estimated by Internal Damping Measurements **2006**, 268-272		
16	Dislocation Generation in Mg Composites during Thermal Cycling **2006**, 184-189		

15	Unstable Plastic Deformation in Mg Alloys-Post Relaxation Effect **2005**, 495-500	
14	Deformation Behaviour of Mg-Li-Al Alloys at Room and Elevated Temperatures **2005**, 122-127	
13	Mechanical Properties of AZ91 Alloy after Equal Channel Angular Pressing **2005**, 190-193	
12	Internal Friction in a ZC63 Matrix Composite. *Defect and Diffusion Forum*, **2002**, 203-205, 273-276	0.7
11	Acoustic Emission from Deformed Zn Single Crystals. *Key Engineering Materials*, **1995**, 97-98, 401-406	0.4
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8	Stress relaxation in Cd?Zn polycrystals. *Physica Status Solidi A*, **1990**, 118, 455-460	
7	Deformation of Cd and Zn single crystals. *European Physical Journal D*, **1981**, 31, 133-134	
6	Plastic deformation of alpha-Zr polycrystals. *European Physical Journal D*, **1981**, 31, 163-164	
5	Stress Relaxations in a Magnesium Alloy and Composite678-683	
4	Influence of Thermomechanical Treatment on the Damping Capacity of Selected Magnesium Alloys. *Materials Science Forum*, **2016**, 879, 1992-1997	0.4
3	Deformation behaviour of ultrafine-grained magnesium with 3 vol.% graphite. *International Journal of Materials Research*, **2022**, 97, 344-349	0.5
2	Mechanical Properties and Strain Hardening Behaviour of Magnesium Alloys and Composites. *Communications - Scientific Letters of the University of Zilina*, **2010**, 12, 12-19	0.2
1	Deformation Mechanisms Operating during Plastic Flow of An Az63 Magnesium Alloy Studied by the Stress Relaxation Technique. *Communications - Scientific Letters of the University of Zilina*, **2010**, 12, 5-11	0.2