

Miroslav Cieslar

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

1,574
citations

17
h-index

36
g-index

121
ext. papers

1,694
ext. citations

2.3
avg, IF

4.23
L-index

#	Paper	IF	Citations
113	Multi-wall carbon nanotubes coated with polyaniline. <i>Polymer</i> , 2006 , 47, 5715-5723	3.9	267
112	Polyaniline nanotubes: conditions of formation. <i>Polymer International</i> , 2006 , 55, 31-39	3.3	253
111	Thermal stability of ultrafine grained copper. <i>Physical Review B</i> , 2002 , 65,	3.3	93
110	Hydrogen-induced defects in bulk niobium. <i>Physical Review B</i> , 2004 , 69,	3.3	70
109	Ultrafine-grained structure development and deformation behavior of aluminium processed by constrained groove pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 503, 126-129	5.3	67
108	Catalytic activity of polypyrrole nanotubes decorated with noble-metal nanoparticles and their conversion to carbonized analogues. <i>Synthetic Metals</i> , 2016 , 214, 14-22	3.6	53
107	Polypyrrole-silver composites prepared by the reduction of silver ions with polypyrrole nanotubes. <i>Polymer Chemistry</i> , 2013 , 4, 3610	4.9	51
106	The influence of ECAP temperature on the stability of Al ₇₀ Mg ₂₀ Ti alloy. <i>Journal of Alloys and Compounds</i> , 2004 , 378, 237-241	5.7	30
105	Superplasticity in an Al ₇₀ Mg ₂₀ Zr ₁₀ Sc alloy produced by equal-channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 462, 91-94	5.3	27
104	High-temperature mechanical properties of Zr alloyed Fe ₃ Al-type iron aluminide. <i>Intermetallics</i> , 2007 , 15, 333-337	3.5	26
103	3D analysis of macrosegregation in twin-roll cast AA3003 alloy. <i>Materials Characterization</i> , 2016 , 118, 44-49	3.9	26
102	Precision of electrical resistivity measurements. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 462, 339-342	5.3	25
101	In-situ study of phase transformations during homogenization of 6005 and 6082 Al alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 504-509	5.7	22
100	Assessment of the Al Corner of the Ternary Al-Be-Si System. <i>Materials Science Forum</i> , 2010 , 649, 523-528	0.4	21
99	Electronic properties of β -Hf stabilized by Zr. <i>Physical Review B</i> , 2015 , 91,	3.3	20
98	Magnetron Sputtering of Polymeric Targets: From Thin Films to Heterogeneous Metal/Plasma Polymer Nanoparticles. <i>Materials</i> , 2019 , 12,	3.5	19
97	Positron annihilation study of vacancies in Fe-Al based alloys. <i>Intermetallics</i> , 2010 , 18, 592-598	3.5	17

96	Structure development during superplastic deformation of an Al-Mg-Sc-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 462, 95-99	5.3	17
95	Hydrogen-induced defects in niobium. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 479-483	5.7	17
94	Carbide formation in Zr-containing Fe ₃ Al-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 462, 289-293	5.3	16
93	Phase transformations in novel hot-deformed Al ₇₀ Mg ₁₀ Ti ₁₀ Si ₅ Mn ₅ Fe(Bi ₂ Zr) alloys. <i>Materials and Design</i> , 2020 , 193, 108821	8.1	15
92	Acoustic emission of salt-replicated foams during compression. <i>Scripta Materialia</i> , 2008 , 59, 987-990	5.6	15
91	The Influence of Alloy Composition on Phase Transformations and Recrystallization in Twin-Roll Cast Al-Mn-Fe Alloys. <i>Materials Science Forum</i> , 2006 , 519-521, 365-370	0.4	15
90	Spatial distribution of defects in ultra-fine grained copper prepared by high-pressure torsion. <i>Physica Status Solidi A</i> , 2003 , 195, 335-349		15
89	Portevin-Chatelier effect in biaxially strained Al ₇₀ Fe ₃ foils. <i>Scripta Materialia</i> , 2003 , 48, 1105-1110	5.6	14
88	UH-based ferromagnets: new look at an old material. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 400, 130-136	2.8	13
87	The influence of dispersoids on the recrystallization of aluminium alloys. <i>International Journal of Materials Research</i> , 2009 , 100, 391-394	0.5	13
86	The influence of Cr and Ce additions on the mechanical properties of Fe ₃ Al based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 324, 23-27	5.3	13
85	In-flight modification of Ni nanoparticles by tubular magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 205302	3	12
84	Multilayer composite al _{99.99} /almg ₃ sheets prepared by accumulative roll bonding. <i>International Journal of Materials Research</i> , 2009 , 100, 858-862	0.5	12
83	Core@shell Cu/hydrocarbon plasma polymer nanoparticles prepared by gas aggregation cluster source followed by in-flight plasma polymer coating. <i>Plasma Processes and Polymers</i> , 2018 , 15, 1700109	3.4	11
82	Multi-wall carbon nanotubes with nitrogen-containing carbon coating. <i>Chemical Papers</i> , 2013 , 67,	1.9	11
81	The influence of processing route on the plastic deformation of Al ₇₀ Mg ₁₀ Ti alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 324, 90-95	5.3	11
80	Influence of annealing on mechanical properties of an Fe ₈₀ Al ₁₀ Cr _{0.1} Ce alloy. <i>Intermetallics</i> , 1999 , 7, 847-853	3.5	11
79	TEM Investigation of Precipitation in Al-Mn Alloys with Addition of Zr. <i>Manufacturing Technology</i> , 2012 , 12, 212-217	0.7	11

78	Annealing Effects in Cast Commercial Aluminium AlMgZnCu(ScZr) Alloys. <i>Metals and Materials International</i> , 2021 , 27, 995-1004	2.4	11
77	Electrical resistivity of 5f-electron systems affected by static and dynamic spin disorder. <i>Physical Review B</i> , 2017 , 95,	3.3	10
76	Hydrogen-induced defects in niobium studied by positron annihilation spectroscopy. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 580-583	5.7	9
75	Investigation of spatial distribution of defects in ultra-fine grained copper. <i>Applied Surface Science</i> , 2002 , 194, 140-144	6.7	9
74	The influence of ECAP on microstructure evolution of aluminium alloys during in-situ heating in TEM. <i>International Journal of Materials Research</i> , 2015 , 106, 676-681	0.5	8
73	Composite Ni@Ti nanoparticles produced in arrow-shaped gas aggregation source. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 195303	3	8
72	Strong 5f Ferromagnetism in UH3-Based Materials. <i>MRS Advances</i> , 2016 , 1, 2987-2992	0.7	8
71	Precipitation in the Fe ₈ Al ₃ Cr intermetallic alloy with Ce addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 324, 5-10	5.3	8
70	High Strain Rate Superplasticity in a Zr and Sc Modified 7075 Aluminum Alloy Produced by ECAP. <i>Materials Science Forum</i> , 2008 , 584-586, 164-169	0.4	7
69	Accumulative Roll Bonding of AA8006, AA8011 and AA5754 Sheets. <i>Materials Science Forum</i> , 2006 , 519-521, 1227-1232	0.4	7
68	The optimization of ECAP conditions to achieve high strain-rate superplasticity in a Zr- and Sc-modified aa 7075 aluminum alloy. <i>International Journal of Materials Research</i> , 2009 , 100, 851-857	0.5	6
67	Effect of Thermomechanical Pretreatment on Mechanical Properties of Modified Al-Mn-Fe-Si Based Alloys. <i>Materials Science Forum</i> , 2007 , 567-568, 325-328	0.4	6
66	Study of twin-roll cast Aluminium alloys subjected to severe plastic deformation by equal channel angular pressing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012086	0.4	5
65	High Temperature Deformation of Twin-Roll Cast Al-Mn-Based Alloys after Equal Channel Angular Pressing. <i>Materials</i> , 2015 , 8, 7650-7662	3.5	5
64	Annealing Effects in Twin-Roll Cast AA8006 Aluminium Sheets Processed by Accumulative Roll-Bonding. <i>Materials</i> , 2014 , 7, 8058-8069	3.5	5
63	The study of microstructure and mechanical properties of twin-roll cast AZ31 magnesium alloy after constrained groove pressing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012078	0.4	5
62	Microstructure and high temperature deformation of an ultra-fine grained ECAP AA7075 aluminium alloy. <i>International Journal of Materials Research</i> , 2013 , 104, 3-10	0.5	5
61	Effect of low temperature stabilisation on the precipitation of a continuously cast AlMgBi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 462, 375-379	5.3	5

60	Thermal Stability of Ultra Fine Grained Copper Prepared by High Pressure Torsion Using Various Pressures. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2003 , 17, 37-44	0.2	5
59	The Study of the Behavior of Constrained Groove Pressed Magnesium Alloy after Heat Treatment. <i>Acta Physica Polonica A</i> , 2015 , 128, 775-779	0.6	5
58	Role of Small Addition of Sc and Zr in Clustering and Precipitation Phenomena Induced in AA7075. <i>Metals</i> , 2021 , 11, 8	2.3	5
57	Effect of pre-annealing on microstructure evolution of TRC AA3003 aluminum alloy subjected to ECAP. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 627-633	3.3	5
56	Microstructure and Properties of Aluminium Processed by Constrained Groove Pressing. <i>Materials Science Forum</i> , 2008 , 584-586, 535-540	0.4	4
55	Thermal Stability of Ultrafine Grains in Al-Fe-Mn-Si Foils Prepared by ARB and Subsequent Rolling. <i>Materials Science Forum</i> , 2008 , 584-586, 905-910	0.4	4
54	Influence of ceramic nanoparticles on grain growth in ultra fine grained copper prepared by high pressure torsion. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 3587-3590		4
53	Effect of Quenching Temperature on Age Hardening of AA6016 Sheets. <i>Materials Science Forum</i> , 2007 , 567-568, 333-336	0.4	4
52	Plasticity of thin Al films as a function of temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 734-737	5.3	4
51	Plastic Instabilities during Biaxial Testing of Al-Fe-Si Foils. <i>Materials Science Forum</i> , 2002 , 396-402, 1079-1084	0.4	4
50	Deformation Instabilities in Al-Li Based Alloys. <i>Materials Science Forum</i> , 1996 , 217-222, 1049-1054	0.4	4
49	Grain Refinement in Al-Mn-Fe-Si Alloys by Severe Plastic Deformation. <i>Manufacturing Technology</i> , 2015 , 15, 679-684	0.7	4
48	Annealing effects in commercial aluminium hot-rolled 7075(ScZr) alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 1613-1623	4.1	4
47	Microstructure and deformation behaviour of the ECAP Al-Mn-Sc-Zr alloy. <i>Metallic Materials</i> , 2016 , 52, 329-335	1.3	3
46	Structure Development and Deformation Behaviour of Pure Aluminium Processed by Constrained Groove Pressing. <i>Materials Science Forum</i> , 2014 , 794-796, 882-887	0.4	3
45	Bowtie slip traces in Fe80Al20 single crystals deformed at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 258-261	5.3	3
44	Deformation behaviour of ultrafine-grained 7075 aluminium alloy. <i>International Journal of Materials Research</i> , 2009 , 100, 847-850	0.5	3
43	Quenched-in vacancies in Fe-Al alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2367-2369		3

42	Iron in spleen tissues 2012 ,		3
41	Microstructure, Texture and Property Changes of High Purity Aluminium during Accumulative Roll Bonding and Conventional Rolling. <i>Materials Science Forum</i> , 2006 , 503-504, 711-716	0.4	3
40	Microstructure of Twin-roll Cast Al-Mg-Sc-Zr Alloy. <i>Manufacturing Technology</i> , 2016 , 16, 1255-1259	0.7	3
39	In-flight plasma modification of nanoparticles produced by means of gas aggregation sources as an effective route for the synthesis of core-satellite Ag/plasma polymer nanoparticles. <i>Plasma Physics and Controlled Fusion</i> , 2020 , 62, 014005	2	3
38	Quantitative numerical method for analysing slip traces observed by AFM. <i>Surface Topography: Metrology and Properties</i> , 2013 , 1, 015002	1.5	2
37	Accumulative Roll-Bonding (ARB) of Sheets of Aluminium and its Commercial Alloys AA8006 and AA5754 at Ambient and Elevated Temperatures. <i>Materials Science Forum</i> , 2007 , 546-549, 767-774	0.4	2
36	Hydrogen-Induced Defects in Niobium Studied by Positron Annihilation. <i>Materials Science Forum</i> , 2004 , 445-446, 60-62	0.4	2
35	The influence of temperature on plastic deformation of free standing thin Al ₇₀ Mg ₃₀ u films. <i>Journal of Alloys and Compounds</i> , 2004 , 378, 312-315	5.7	2
34	Positron Annihilation Studies of Microstructure of Ultra Fine Grained Metals Prepared by Severe Plastic Deformation. <i>Materials Science Forum</i> , 2005 , 482, 207-210	0.4	2
33	The Evolution of Microstructure and Mechanical Properties of Al-Mn-Fe-Si Alloys During Isothermal Annealing. <i>Acta Physica Polonica A</i> , 2015 , 128, 746-750	0.6	2
32	Effect of annealing on microstructure and properties of twin-roll-cast AlMn alloys with different copper content. <i>International Journal of Materials Research</i> , 2009 , 100, 428-432	0.5	2
31	Microstructure Evolution of Al-Mn-Si-Fe Alloy Studied by In-situ Transmission Electron Microscopy. <i>Manufacturing Technology</i> , 2014 , 14, 412-417	0.7	2
30	Plasma-based synthesis of iron carbide nanoparticles. <i>Plasma Processes and Polymers</i> , 2020 , 17, 2000105	3.4	2
29	New Twin-Roll Cast Al-Li Based Alloys for High-Strength Applications. <i>Metals</i> , 2020 , 10, 987	2.3	2
28	Anomalous X-ray diffraction from nanoparticles in Ti(Mo) single crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, 718-729	1.7	1
27	Effect of Processing Conditions on the Microstructure Development during Constrained Groove Pressing of Aluminium. <i>Materials Science Forum</i> , 2014 , 783-786, 331-337	0.4	1
26	Properties and microstructure of twin-roll cast Al-Mg alloy containing Sc and Zr. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 179, 012012	0.4	1
25	Quenched-in vacancies in Fe ₃ Al based alloys: a positron annihilation study. <i>Journal of Physics: Conference Series</i> , 2011 , 265, 012016	0.3	1

24	Positron Annihilation Spectroscopy, Electrical Resistivity, and Microstructural Transmission Electron Microscopy Studies of the Cu-Mn System. <i>Materials Science Forum</i> , 1997 , 255-257, 572-574	0.4	1
23	Annealing Response of Al-0.22Sc-0.13Zr Alloy Processed by Accumulative Roll Bonding. <i>Materials Science Forum</i> , 2008 , 584-586, 899-904	0.4	1
22	Differences in Structure Evolution of Twin-Roll Cast AA8006 and AA8011 Alloys during Annealing. <i>Materials Science Forum</i> , 2000 , 331-337, 829-834	0.4	1
21	Bulge Test Characterization of Static Softening and Dynamic Instabilities in Foils of an Al-Based Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 695, 1		1
20	Inhomogeneity of Mechanical and Electrical Properties of Al-Li-Based Alloys Extrusions. <i>Materials Science Forum</i> , 1996 , 217-222, 987-992	0.4	1
19	Jerky Flow in Al-Li-Mg-Cu Alloy. <i>Key Engineering Materials</i> , 1995 , 97-98, 257-262	0.4	1
18	The Influence of Casting Methods on Microstructure of Al-Mg-Sc-Zr Alloy. <i>Manufacturing Technology</i> , 2018 , 18, 130-134	0.7	1
17	Spectral Dependence of the Photoplastic Effect in CdZnTe and CdZnTeSe. <i>Materials</i> , 2021 , 14,	3.5	1
16	Synthesis and microstructure investigation of heterogeneous metal-plasma polymer Ag/HMDSO nanoparticles. <i>Surface and Interface Analysis</i> , 2020 , 52, 1023-1028	1.5	1
15	Deformation mechanisms of Al thin films: In-situ TEM and molecular dynamics study. <i>Scripta Materialia</i> , 2022 , 215, 114688	5.6	1
14	Kirkendall Effect in Twin-Roll Cast AA 3003 Aluminum Alloy. <i>Crystals</i> , 2022 , 12, 607	2.3	1
13	ALCHEMI study of chromium doped iron-aluminides. <i>International Journal of Materials Research</i> , 2009 , 100, 811-813	0.5	0
12	Core@shell nanoparticles by inflight controlled coating. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 215301		0
11	The Influence of Foils Thickness on Recrystallized Structure Observed during In-Situ Heating of AlMgScZr Alloy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 65-66	0.5	
10	High-Temperature Processes Occurring during Homogenization of AA6082 Aluminum Alloy 2014 , 237-241		
9	Microstructure Evolution of AA3003 Aluminum Alloys Enhanced by Zirconium Addition Studied by Electron Microscopy 2015 , 469-474		
8	Fully Dense Fine Grained FeAl-Based Intermetallics Prepared by Spark Plasma Sintering Method 2013 , 361-368		
7	Preparation of ultrafine-grained twin-roll cast AlMg3 sheets by accumulative roll bonding. <i>International Journal of Materials Research</i> , 2009 , 100, 863-866	0.5	

- 6 Lateral and Depth Distribution of Defects in Ultra-Fine Grained Copper Prepared by High-Pressure Torsion. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 17, 23-28 0.2
- 5 Mechanical Inhomogeneity of Extruded Al-Li Based Profiles. *Materials Science Forum*, **2002**, 396-402, 1241-1246 0.4
- 4 The Effects of Nature-Inspired Synthesis on Silver Nanoparticle Generation.. *ACS Omega*, **2022**, 7, 4850-4858 0.5
- 3 High Temperature Annealing of Twin-Roll Cast Al-Li-Based Alloy Studied by In-situ SEM and STEM. *Microscopy and Microanalysis*, **2021**, 27, 79-80 0.5
- 2 Tensile Deformation of Al Thin Films Studied by In-situ TEM and Molecular Dynamics Simulations. *Microscopy and Microanalysis*, **2021**, 27, 71-72 0.5
- 1 Recrystallization in Multilayer Al99.99/AlMg3 Laminates Prepared by Accumulative Roll-Bonding. *Acta Physica Polonica A*, **2015**, 128, 487-491 0.6