

# Jeno Gubicza

## List of Publications by Citations

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181  
papers

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185  
ext. papers

5,593  
ext. citations

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avg, IF

5.75  
L-index

#	Paper	IF	Citations
181	Crystallite size distribution and dislocation structure determined by diffraction profile analysis: principles and practical application to cubic and hexagonal crystals. <i>Journal of Applied Crystallography</i> , <b>2001</b> , 34, 298-310	3.8	546
180	MWP-fit: a program for multiple whole-profile fitting of diffraction peak profiles by ab initio theoretical functions. <i>Journal of Applied Crystallography</i> , <b>2001</b> , 34, 669-676	3.8	306
179	Correlation between subgrains and coherently scattering domains. <i>Powder Diffraction</i> , <b>2005</b> , 20, 366-375	5.8	194
178	Microstructure and mechanical behavior of AZ91 Mg alloy processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 394, 194-199	5.7	166
177	Microstructure of carbon blacks determined by X-ray diffraction profile analysis. <i>Carbon</i> , <b>2002</b> , 40, 929-937	7.4	157
176	Microstructure of ultrafine-grained fcc metals produced by severe plastic deformation. <i>Current Applied Physics</i> , <b>2006</b> , 6, 194-199	2.6	112
175	High strength and ductile ultrafine-grained Cu <sub>60</sub> Ag alloy through bimodal grain size, dislocation density and solute distribution. <i>Acta Materialia</i> , <b>2013</b> , 61, 228-238	8.4	87
174	Correlation between microstructure and mechanical properties of severely deformed metals. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 483, 271-274	5.7	80
173	Microstructure and strength of severely deformed fcc metals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 462, 86-90	5.3	79
172	Defect structure and hardness in nanocrystalline CoCrFeMnNi High-Entropy Alloy processed by High-Pressure Torsion. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 711, 143-154	5.7	73
171	Microstructural characterization of ultrafine-grained nickel. <i>Physica Status Solidi A</i> , <b>2003</b> , 198, 263-271		72
170	Principles of self-annealing in silver processed by equal-channel angular pressing: The significance of a very low stacking fault energy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 752-760	5.3	70
169	Effect of the loading mode on the evolution of the deformation mechanisms in randomly textured magnesium polycrystals [Comparison of experimental and modeling results. <i>International Journal of Plasticity</i> , <b>2015</b> , 72, 127-150	7.6	69
168	Microstructure of severely deformed metals determined by X-ray peak profile analysis. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 378, 248-252	5.7	68
167	High strength and good electrical conductivity in Cu <sub>90</sub> Zr alloys processed by severe plastic deformation. <i>Materials Letters</i> , <b>2015</b> , 153, 5-9	3.3	67
166	Microstructural investigation of plastically deformed Ti <sub>20</sub> Zr <sub>20</sub> Hf <sub>20</sub> Nb <sub>20</sub> Ta <sub>20</sub> high entropy alloy by X-ray diffraction and transmission electron microscopy. <i>Materials Characterization</i> , <b>2015</b> , 108, 1-7	3.9	67
165	Microstructural stability of Cu processed by different routes of severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 1828-1832	5.3	65

164	Microstructure and hardness of copper/carbon nanotube composites consolidated by High Pressure Torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 4690-4695	5.3	64
163	The microstructure of mechanically alloyed Al/Mg determined by X-ray diffraction peak profile analysis. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 372, 115-122	5.3	63
162	Microstructure and mechanical characteristics of bulk polycrystalline Ni consolidated from blends of powders with different particle size. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1206-1214	5.3	62
161	Effect of short-term annealing on the microstructures and flow properties of an Al/Mg alloy processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 615, 231-239	5.3	60
160	Developing a strategy for the processing of age-hardenable alloys by ECAP at room temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 516, 248-252	5.3	58
159	Phase transition in nanomagnetite. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 104312	2.5	58
158	Structural characterization of ultrafine-grained interstitial-free steel prepared by severe plastic deformation. <i>Acta Materialia</i> , <b>2016</b> , 105, 258-272	8.4	57
157	Plastic instabilities and dislocation densities during plastic deformation in Al/Mg alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 445-446, 186-192	5.3	57
156	Mechanical behavior and microstructure of Ti <sub>20</sub> Hf <sub>20</sub> Zr <sub>20</sub> Ta <sub>20</sub> Nb <sub>20</sub> high-entropy alloy loaded under quasi-static and dynamic compression conditions. <i>Materials Characterization</i> , <b>2016</b> , 111, 106-113	3.9	54
155	Microstructure, phase composition and hardness evolution in 316L stainless steel processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 657, 215-223	5.3	51
154	Influence of sintering temperature and pressure on crystallite size and lattice defect structure in nanocrystalline SiC. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1314-1321	2.5	50
153	High temperature thermal stability of pure copper and copper/carbon nanotube composites consolidated by High Pressure Torsion. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 51, 71-79	8.4	49
152	Influence of equal channel angular pressing routes on texture, microstructure and mechanical properties of extruded AX41 magnesium alloy. <i>Materials Characterization</i> , <b>2017</b> , 123, 282-293	3.9	48
151	Evolution of microstructure and hardness in AZ31 alloy processed by high pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 98-106	5.3	48
150	Microstructure and yield strength of severely deformed silver. <i>Scripta Materialia</i> , <b>2008</b> , 58, 775-778	5.6	45
149	Size and shape of crystallites and internal stresses in carbon blacks. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2005</b> , 36, 431-436	8.4	45
148	On the strengthening behavior of ultrafine-grained nickel processed from nanopowders. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 3227-3235	5.3	44
147	Influence of equal channel angular pressing temperature on texture, microstructure and mechanical properties of extruded AX41 magnesium. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 705, 273-282	5.7	41

146	Microstructure and dislocation density evolutions in MgAlZn alloy processed by severe plastic deformation. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7860-7869	4-3	40
145	Improvement of strength and conductivity in Cu-alloys with the application of high pressure torsion and subsequent heat-treatments. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6674-6681	4-3	37
144	Evolution of microstructure and texture in an ultrafine-grained Al6082 alloy during severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 490, 335-342	5-3	37
143	X-Ray Line Profile Analysis in Materials Science <b>2014</b> ,		37
142	Microstructure and mechanical behavior of ultrafine-grained Ni processed by different powder metallurgy methods. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 217-226	2-5	36
141	Structure and mechanical behaviour of interstitial-free steel processed by equal-channel angular pressing. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 3522-3525	5-7	35
140	Characterization of Defect Structure in Electrodeposited Nanocrystalline Ni Films. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, D107-D114	3-9	32
139	Nanocrystalline materials studied by powder diffraction line profile analysis. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2007</b> , 222, 114-128	1	32
138	Characterization of defect structures in nanocrystalline materials by X-ray line profile analysis. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2007</b> , 222, 567-579	1	32
137	Influence of severe plastic deformation on the microstructure and hardness of a CoCrFeNi high-entropy alloy: A comparison with CoCrFeNiMn. <i>Materials Characterization</i> , <b>2019</b> , 154, 304-314	3-9	30
136	Microstructures and mechanical properties of MgZn alloy consolidated from gas-atomized powders using high-pressure torsion. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 7117-7123	4-3	30
135	Microstructure of diamondSiC nanocomposites determined by X-ray line profile analysis. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 1452-1456	3-5	29
134	Properties of nanostructured diamond-silicon carbide composites sintered by high pressure infiltration technique. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 2703-2707	2-5	29
133	Atmospheric ageing of nanosized silicon nitride powders. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 859-863		29
132	Plastic behavior of fcc metals over a wide range of strain: Macroscopic and microscopic descriptions and their relationship. <i>Acta Materialia</i> , <b>2011</b> , 59, 2385-2391	8-4	28
131	Plastic behavior of face-centered-cubic metals over a wide range of strain. <i>Acta Materialia</i> , <b>2010</b> , 58, 5015-5021	8-4	26
130	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , <b>2022</b> , 10, 163-256	7-4	26
129	Evolution of size and shape of gold nanoparticles during long-time aging. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 138, 449-453	4-4	25

128	Determination of dislocation density by electron backscatter diffraction and X-ray line profile analysis in ferrous lath martensite. <i>Materials Characterization</i> , <b>2016</b> , 113, 117-124	3.9	24
127	Inhomogeneous evolution of microstructure in AZ91 Mg-alloy during high temperature equal-channel angular pressing. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 492, 166-172	5.7	23
126	Silica-Supported Au Nanoparticles Decorated by CeO <sub>2</sub> : Formation, Morphology, and CO Oxidation Activity. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20388-20398	3.8	23
125	Microstructure and yield strength of ultrafine grained aluminum processed by hot isostatic pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 458, 385-390	5.3	23
124	Influence of Zn content on the microstructure and mechanical performance of ultrafine-grained Al <sub>70</sub> Zn alloys processed by high-pressure torsion. <i>Materials Letters</i> , <b>2017</b> , 186, 334-337	3.3	22
123	High temperature thermal stability of nanocrystalline 316L stainless steel processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 323-331	5.3	22
122	The Electrochemical Degradation of Poly(3,4-ethylenedioxythiophene) Films Electrodeposited from Aqueous Solutions. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2016</b> , 230, 1281-1302	3.1	22
121	Mechanical behavior and microstructure of compressed Ti foams synthesized via freeze casting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2016</b> , 63, 407-416	4.1	22
120	Evolution of microstructure and hardness in Hf <sub>25</sub> Nb <sub>25</sub> Ti <sub>25</sub> Zr <sub>25</sub> high-entropy alloy during high-pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 788, 318-328	5.7	22
119	Effect of Mo addition on the microstructure and hardness of ultrafine-grained Ni alloys processed by a combination of cryorolling and high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 688, 92-100	5.3	21
118	Stored energy in ultrafine-grained 316L stainless steel processed by high-pressure torsion. <i>Journal of Materials Research and Technology</i> , <b>2017</b> , 6, 339-347	5.5	21
117	Microstructure and mechanical properties of ultrafine-grained aluminum consolidated by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 501-508	5.3	21
116	Synthesis of nanosized zinc ferrites from liquid precursors in RF thermal plasma reactor. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 941-945	6	21
115	Study of the compression and wear-resistance properties of freeze-cast Ti and Ti-5W alloy foams for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 72, 66-73	4.1	20
114	Manufacturing of ultrafine-grained titanium by caliber rolling in the laboratory and in industry. <i>Journal of Materials Processing Technology</i> , <b>2014</b> , 214, 1307-1315	5.3	20
113	Morphological changes in electrochemically deposited poly(3,4-ethylenedioxythiophene) films during overoxidation. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 1247-1252	2.6	20
112	The effect of impurity level on ultrafine-grained microstructures and their stability in low stacking fault energy silver. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 8694-8699	5.3	20
111	Reduction of vacancy concentration during storage of severely deformed Cu. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 6102-6104	5.3	20

110	X-ray diffraction study on the microstructure of a Mg <sub>70</sub> Zn <sub>30</sub> alloy consolidated by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 539, 32-35	5.7	19
109	Microstructure and nanohardness distribution in a polycrystalline Zn deformed by high strain rate impact. <i>Materials Characterization</i> , <b>2011</b> , 62, 480-487	3.9	19
108	Annealing-Induced Hardening in Ultrafine-Grained and Nanocrystalline Materials. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1900507	3.5	19
107	Exceptionally high strength and good ductility in an ultrafine-grained 316L steel processed by severe plastic deformation and subsequent annealing. <i>Materials Letters</i> , <b>2018</b> , 214, 240-242	3.3	19
106	Effect of bath additives on the microstructure, lattice defect density and hardness of electrodeposited nanocrystalline Ni films. <i>Surface and Coatings Technology</i> , <b>2018</b> , 349, 611-621	4.4	19
105	Microstructure and Mechanical Behavior of Ultrafine-Grained Titanium. <i>Materials Science Forum</i> , <b>2008</b> , 589, 99-104	0.4	18
104	Lattice Defects and Their Influence on the Mechanical Properties of Bulk Materials Processed by Severe Plastic Deformation. <i>Materials Transactions</i> , <b>2019</b> , 60, 1230-1242	1.3	17
103	Solute redistribution during annealing of a cold rolled Cu <sub>60</sub> Ag alloy. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 623, 96-103	5.7	17
102	Microstructure of low stacking fault energy silver processed by different routes of severe plastic deformation. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S190-S193	5.7	17
101	Stability of the ultrafine-grained microstructure in silver processed by ECAP and HPT. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 4637-4645	4.3	16
100	Twinning and dislocation activity in silver processed by severe plastic deformation. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 1656-1660	4.3	16
99	Influence of the initial state on the microstructure and mechanical properties of AX41 alloy processed by ECAP. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 3469-3484	4.3	16
98	The influence of Mo addition on the microstructure and its thermal stability for electrodeposited Ni films. <i>Materials Characterization</i> , <b>2018</b> , 145, 563-572	3.9	16
97	The Effect of Grain Boundary Sliding and Strain Rate Sensitivity on the Ductility of Ultrafine-Grained Materials. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 677-682	0.4	15
96	Delayed microstructural recovery in silver processed by equal-channel angular pressing. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 5672-5676	4.3	15
95	High temperature thermal stability of ultrafine-grained silver processed by equal-channel angular pressing. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 1675-1684	4.3	14
94	Defect structure in nanomaterials <b>2012</b> ,		13
93	Evolution of dislocation density during compression of a Mg-Zn-Y alloy with long period stacking ordered structure. <i>Materials Letters</i> , <b>2017</b> , 190, 86-89	3.3	12

92	Characterization of stress-strain relationships in Al over a wide range of testing temperatures. <i>International Journal of Plasticity</i> , <b>2014</b> , 54, 178-192	7.6	12
91	Microstructure of Bulk Nanomaterials Determined by X-Ray Line-Profile Analysis	361-386	12
90	Stability of Ultrafine-Grained Microstructure in Fcc Metals Processed by Severe Plastic Deformation. <i>Key Engineering Materials</i> , <b>2011</b> , 465, 195-198	0.4	12
89	Calorimetric and X-Ray Measurements in Ultrafine-Grained Nickel. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 4507-4512	0.4	12
88	Annealing-Induced Hardening in Ultrafine-Grained NiMo Alloys. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800184	3.5	12
87	The influence of artificial aging on the microstructure and hardness of an AlZnMgZr alloy processed by equal-channel angular pressing. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 10918-10928	4.3	11
86	Mechanochemical Reactions of Lithium Niobate Induced by High-Energy Ball-Milling. <i>Crystals</i> , <b>2019</b> , 9, 334	2.3	11
85	Examination of nanocrystalline TiC/amorphous C deposited thin films. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3421-3425	6	11
84	Evolution of the microstructure during annealing of ultrafine-grained Ni with different Mo contents. <i>Materials Characterization</i> , <b>2017</b> , 130, 56-63	3.9	10
83	High Purity Ultrafine-Grained Nickel Processed by Dynamic Plastic Deformation: Microstructure and Mechanical Properties. <i>Advanced Engineering Materials</i> , <b>2012</b> , 14, 1027-1033	3.5	10
82	Characterization of the Microstructure of Severely Deformed Titanium by X-Ray Diffraction Profile Analysis. <i>Materials Science Forum</i> , <b>2003</b> , 414-415, 229-234	0.4	10
81	Microstructure and strength of nickel subjected to large plastic deformation at very high strain rate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 662, 9-15	5.3	9
80	Influence of Bath Additives on the Thermal Stability of the Nanostructure and Hardness of Ni Films Processed by Electrodeposition. <i>Coatings</i> , <b>2019</b> , 9, 644	2.9	9
79	Possible self-organized criticality in the Portevin-Le Chatelier effect during decomposition of solid solution alloys. <i>MRS Communications</i> , <b>2012</b> , 2, 1-4	2.7	9
78	Thermal stability of a nanocrystalline HfNbTiZr multi-principal element alloy processed by high-pressure torsion. <i>Materials Characterization</i> , <b>2020</b> , 168, 110550	3.9	9
77	Evolution of microstructure and hardness during artificial aging of an ultrafine-grained Al-Zn-Mg-Zr alloy processed by high pressure torsion. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 16791-16805	4.3	9
76	The Influence of Severe Plastic Deformation and Subsequent Annealing on the Microstructure and Hardness of a Cu-Cr-Zr Alloy. <i>Materials</i> , <b>2020</b> , 13,	3.5	8
75	Different Evolutions of the Microstructure, Texture, and Mechanical Performance During Tension and Compression of 316L Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 3447-3460	2.3	8

74	Compressive behavior of Cu-Ni alloy foams: Effects of grain size, porosity, pore directionality, and chemical composition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 725, 160-170	5.3	8
73	Influence of temperature of ECAP processing on the microstructure and microhardness of as-cast AX41 alloy. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 3118-3129	4.3	8
72	Type and density of dislocations in a plastically deformed long-period stacking ordered magnesium alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 771, 629-635	5.7	7
71	Stored energy in nanocrystalline Ni-Mo films processed by electrodeposition. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 796, 307-313	5.7	6
70	The influence of chemical heterogeneities on the local mechanical behavior of a high-entropy alloy: A micropillar compression study. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 721, 165-167	5.3	6
69	Microstructure and mechanical properties of Al 7075 alloy processed by differential speed rolling. <i>Periodica Polytechnica, Mechanical Engineering</i> , <b>2012</b> , 56, 111	1.8	6
68	Monitoring of Self-Annealing in Ultrafine-Grained Silver Using Nanoindentation. <i>Nanoscience and Nanotechnology Letters</i> , <b>2010</b> , 2, 294-297	0.8	6
67	Microstructure and Mechanical Behavior of Severely Deformed F.C.C. Metals. <i>Materials Science Forum</i> , <b>2007</b> , 567-568, 181-184	0.4	6
66	Characterization of Glasses and Ceramics by Continuous Indentation Tests. <i>Key Engineering Materials</i> , <b>1995</b> , 103, 217-220	0.4	6
65	Inhomogeneous softening during annealing of ultrafine-grained silver processed by HPT. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 7384-7391	4.3	5
64	Influence of Mo alloying on the thermal stability and hardness of ultrafine-grained Ni processed by high-pressure torsion. <i>Journal of Materials Research and Technology</i> , <b>2017</b> , 6, 361-368	5.5	5
63	Texture evolution during room temperature ageing of silver processed by equal-channel angular pressing. <i>Scripta Materialia</i> , <b>2011</b> , 64, 1007-1010	5.6	5
62	Characterizing Microstructural and Mechanical Properties of Al <sub>70</sub> Zn Alloys Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1900672	3.5	5
61	Structure and Magnetic Properties of Nanocrystalline Fe <sub>55</sub> Pd <sub>45</sub> Processed by Sono-electrodeposition. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 3720-3725	1.9	4
60	The Influence of Plastic Deformation on Lattice Defect Structure and Mechanical Properties of 316L Austenitic Stainless Steel. <i>Materials Science Forum</i> , <b>2017</b> , 885, 13-18	0.4	4
59	Synthesis of a High-Capacity NiO/Ni Foam Anode for Advanced Lithium-Ion Batteries. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000351	3.5	4
58	Evolution of Microstructure, Phase Composition and Hardness in 316L Stainless Steel Processed by High-Pressure Torsion. <i>Materials Science Forum</i> , <b>2016</b> , 879, 502-507	0.4	4
57	The Effect of Thermomechanical Treatment on the Microstructure and the Mechanical Behavior of a Supersaturated Cu-Ag Alloy. <i>Materials Science Forum</i> , <b>2015</b> , 812, 53-58	0.4	4



56	The Influence of Impurity Content on Thermal Stability of Low Stacking Fault Energy Silver Processed by Severe Plastic Deformation. <i>Materials Science Forum</i> , <b>2012</b> , 729, 222-227	0.4	4
55	Microstructure and Thermal Stability of Copper - Carbon Nanotube Composites Consolidated by High Pressure Torsion. <i>Materials Science Forum</i> , <b>2012</b> , 729, 228-233	0.4	4
54	Effect of Pre-Aging on the Microstructure and Strength of Supersaturated AlZnMg Alloys Processed by ECAP. <i>Materials Science Forum</i> , <b>2008</b> , 584-586, 501-506	0.4	4
53	Influence of the preparation conditions on the microstructure of electrodeposited nanocrystalline NiMo alloys. <i>Electrochimica Acta</i> , <b>2021</b> , 382, 138352	6.7	4
52	Structure and Giant Magnetoresistance of Co-Fe/Cu Multilayer Films Electrodeposited from Various Bath Formulations. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, D923-D934	3.9	4
51	Microstructure and Tensile Behavior of Al7075/Al Composites Consolidated from Machining Chips Using HPT: A Way of Solid-State Recycling. <i>Metals and Materials International</i> , <b>2020</b> , 26, 1881-1898	2.4	4
50	Microstructure evolution in a nanocrystalline CoCrFeNi multi-principal element alloy during annealing. <i>Materials Characterization</i> , <b>2021</b> , 171, 110807	3.9	4
49	Investigation of Lattice Defects in a Plastically Deformed High-Entropy Alloy. <i>Materials Science Forum</i> , <b>2017</b> , 885, 74-79	0.4	3
48	Characterization Methods of Lattice Defects <b>2017</b> , 27-57		3
47	Processing Age-Hardenable Alloys by Equal-Channel Angular Pressing at Room Temperature: Strategies and Advantages. <i>Materials Science Forum</i> , <b>2009</b> , 633-634, 527-534	0.4	3
46	Effect of Lithiation on the Microstructure of a Cobalt Foam Processed by Freeze Casting. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800343	3.5	3
45	Freeze Casting is a Facile Method to Create Solid Solution Alloy Foams: CuNi Alloy Foams via Freeze Casting. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1801265	3.5	2
44	Effect of hot isostatic pressing on microstructure and mechanical properties of Ti6Al4V-zirconia nanocomposites processed by laser-powder bed fusion. <i>Materials and Design</i> , <b>2022</b> , 214, 110392	8.1	2
43	Microstructure Evolution in Cu0.5 wt% Zr Alloy Processed by a Novel Severe Plastic Deformation Technique of Rotational Constrained Bending. <i>Metals</i> , <b>2021</b> , 11, 63	2.3	2
42	Microstructure, Hardness, and Elastic Modulus of a Multibeam-Sputtered Nanocrystalline Co-Cr-Fe-Ni Compositional Complex Alloy Film. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
41	Correlation between strain-rate sensitivity and viscous properties derived from dynamic nanoindentation of ultrafine-grained AlZn alloys. <i>MRS Communications</i> , <b>2019</b> , 9, 310-314	2.7	2
40	Superior low-temperature superplasticity in fine-grained ZK60 Mg alloy sheet produced by a combination of repeated upsetting process and sheet extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 819, 141444	5.3	2
39	Ultralow-temperature superplasticity and its novel mechanism in ultrafine-grained Al alloys. <i>Materials Research Letters</i> , <b>2021</b> , 9, 475-482	7.4	2

38	Defect Structure in Bulk Nanomaterials Processed by Severe Plastic Deformation <b>2017</b> , 59-93		1
37	Correlation Between Defect Structure and Mechanical Properties of Nanocrystalline Materials <b>2017</b> , 175-223		1
36	Room-temperature magnetoresistance of nanocrystalline Ni metal with various grain sizes. <i>European Physical Journal Plus</i> , <b>2020</b> , 135, 1	3.1	1
35	Mechanical Properties and Microstructure Development in Ultrafine-grained Materials Processed by Equal-channel Angular Pressing <b>2017</b> ,		1
34	Influence of High-Pressure Torsion on the Microstructure and the Hardness of a Ti-Rich High-Entropy Alloy. <i>Materials Science Forum</i> , <b>2016</b> , 879, 732-737	0.4	1
33	Defect structure in electrodeposited nanocrystalline Ni layers with different Mo concentrations <b>2018</b> ,		1
32	Unique Features of Ultrafine-Grained Microstructures in Materials Having Low Stacking Fault Energy. <i>Materials Science Forum</i> , <b>2010</b> , 659, 171-176	0.4	1
31	Microstructure and Thermal Stability in CP Titanium Processed by Electroplastic Rolling. <i>Key Engineering Materials</i> , <b>2011</b> , 465, 215-218	0.4	1
30	Effect of Processing Conditions on Microstructure and Mechanical Behaviour of Metals Sintered from Nanopowders. <i>Materials Science Forum</i> , <b>2012</b> , 729, 49-54	0.4	1
29	On the enhanced hardening ability and plasticity mechanisms in a novel Mn-added CoCrNi medium entropy alloy during high-pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 904, 163941	5.7	1
28	Stability of microstructure in silver processed by severe plastic deformation. <i>International Journal of Materials Research</i> , <b>2009</b> , 100, 884-887	0.5	1
27	Practical Applications of X-Ray Line Profile Analysis <b>2017</b> , 1094-1132		1
26	Improved Hardness and Thermal Stability of Nanocrystalline Nickel Electrodeposited with the Addition of Cysteine. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
25	Annealing-Induced Changes in the Microstructure and Mechanical Response of a Cu Nanofoam Processed by Dealloying. <i>Metals</i> , <b>2020</b> , 10, 1128	2.3	1
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23	Reliability and interpretation of the microstructural parameters determined by X-ray line profile analysis for nanostructured materials. <i>European Physical Journal: Special Topics</i> ,1	2.3	1
22	Defect structure in bulk nanomaterials processed by severe plastic deformation <b>2012</b> , 41-83		0
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20	Assessment of Dislocation Density by Various Techniques in Cold Rolled 1050 Aluminum Alloy. <i>Metals</i> , <b>2021</b> , 11, 1571	2.3	0
19	Defect Structure in Low Stacking Fault Energy Nanomaterials <b>2017</b> , 95-119		
18	Thermal Stability of Defect Structures in Nanomaterials <b>2017</b> , 317-371		
17	Lattice Defects in Nanoparticles and Nanomaterials Sintered From Nanopowders <b>2017</b> , 121-153		
16	Lattice Defects in Nanocrystalline Films and Multilayers <b>2017</b> , 155-173		
15	Defect Structure and Properties of Metal Matrix-Carbon Nanotube Composites <b>2017</b> , 225-246		
14	Micropillar Compression Study on the Deformation Behavior of Electrodeposited NiMo Films. <i>Coatings</i> , <b>2020</b> , 10, 205	2.9	
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