Jeno Gubicza

List of Publications by Year in Descending Order

181 papers	4,840 citations	37 h-index	63 g-index
185 ext. papers	5,593 ext. citations	3.8 avg, IF	5.75 L-index

#	Paper	IF	Citations
181	Effect of hot isostatic pressing on microstructure and mechanical properties of Ti6Al4V-zirconia nanocomposites processed by laser-powder bed fusion. *Materials and Design*, **2022**, 214, 110392	8.1	2
180	On the enhanced hardening ability and plasticity mechanisms in a novel Mn-added CoCrNi medium entropy alloy during high-pressure torsion. *Journal of Alloys and Compounds*, **2022**, 904, 163941	5.7	1
179	Comment on Influence of prior deformation temperature on strain induced martensite formation and its effect on the tensile strengthening behaviour of type 304 SS studied by XRDLPA. Materials Science & Engineering A 826 (2021) 141960 *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 832, 142450	5.3	
178	Effect of nickel addition on enhancing nano-structuring and suppressing TRIP effect in Fe40Mn40Co10Cr10 high entropy alloy during high-pressure torsion. *International Journal of Plasticity*, **2022**, 150, 103193	7.6	0
177	Thermal stability of nanocrystalline CoCrFeNi multi-principal element alloy: Effect of the degree of severe plastic deformation. *Intermetallics*, **2022**, 142, 107445	3.5	
176	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. *Materials Research Letters*, **2022**, 10, 163-256	7.4	26
175	Effect of laser heating on microstructure and deposition properties of cold sprayed SS304L. *Materialia*, **2022**, 22, 101372	3.2	
174	Assessment of Dislocation Density by Various Techniques in Cold Rolled 1050 Aluminum Alloy. *Metals*, **2021**, 11, 1571	2.3	0
173	Microstructure Evolution in Cu 0.5 wt% Zr Alloy Processed by a Novel Severe Plastic Deformation Technique of Rotational Constrained Bending. *Metals*, **2021**, 11, 63	2.3	2
172	Influence of the preparation conditions on the microstructure of electrodeposited nanocrystalline Ni Mo alloys. *Electrochimica Acta*, **2021**, 382, 138352	6.7	4
171	Microstructure, Hardness, and Elastic Modulus of a Multibeam-Sputtered Nanocrystalline Co-Cr-Fe-Ni Compositional Complex Alloy Film. *Materials*, **2021**, 14,	3.5	2
170	Microstructure evolution in a nanocrystalline CoCrFeNi multi-principal element alloy during annealing. *Materials Characterization*, **2021**, 171, 110807	3.9	4
169	Superior low-temperature superplasticity in fine-grained ZK60 Mg alloy sheet produced by a combination of repeated upsetting process and sheet extrusion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 819, 141444	5.3	2
168	Ultralow-temperature superplasticity and its novel mechanism in ultrafine-grained Al alloys. *Materials Research Letters*, **2021**, 9, 475-482	7.4	2
167	The Influence of Severe Plastic Deformation and Subsequent Annealing on the Microstructure and Hardness of a Cu-Cr-Zr Alloy. *Materials*, **2020**, 13,	3.5	8
166	Synthesis of a High-Capacity NiO/Ni Foam Anode for Advanced Lithium-Ion Batteries. *Advanced Engineering Materials*, **2020**, 22, 2000351	3.5	4
165	Different Evolutions of the Microstructure, Texture, and Mechanical Performance During Tension and Compression of 316L Stainless Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 3447-3460	2.3	8

164	Micropillar Compression Study on the Deformation Behavior of Electrodeposited NiMo Films. *Coatings*, **2020**, 10, 205	2.9	
163	An Investigation of Strain-Softening Phenomenon in Al0.1% Mg Alloy during High-Pressure Torsion Processing. *Advanced Engineering Materials*, **2020**, 22, 1901578	3.5	
162	Room-temperature magnetoresistance of nanocrystalline Ni metal with various grain sizes. *European Physical Journal Plus*, **2020**, 135, 1	3.1	1
161	Influence of temperature of ECAP processing on the microstructure and microhardness of as-cast AX41 alloy. *Journal of Materials Science*, **2020**, 55, 3118-3129	4.3	8
160	Improved Hardness and Thermal Stability of Nanocrystalline Nickel Electrodeposited with the Addition of Cysteine. *Nanomaterials*, **2020**, 10,	5.4	1
159	Thermal stability of a nanocrystalline HfNbTiZr multi-principal element alloy processed by high-pressure torsion. *Materials Characterization*, **2020**, 168, 110550	3.9	9
158	Annealing-Induced Changes in the Microstructure and Mechanical Response of a Cu Nanofoam Processed by Dealloying. *Metals*, **2020**, 10, 1128	2.3	1
157	Deformation-softening in ultrafine-grained materials. *IOP Conference Series: Materials Science and Engineering*, **2020**, 903, 012041	0.4	
156	Evolution of microstructure and hardness during artificial aging of an ultrafine-grained Al-Zn-Mg-Zr alloy processed by high pressure torsion. *Journal of Materials Science*, **2020**, 55, 16791-16805	4.3	9
155	Annealing-Induced Hardening in Ultrafine-Grained and Nanocrystalline Materials. *Advanced Engineering Materials*, **2020**, 22, 1900507	3.5	19
154	Characterizing Microstructural and Mechanical Properties of AlZn Alloys Processed by High-Pressure Torsion. *Advanced Engineering Materials*, **2020**, 22, 1900672	3.5	5
153	Microstructure and Tensile Behavior of Al7075/Al Composites Consolidated from Machining Chips Using HPT: A Way of Solid-State Recycling. *Metals and Materials International*, **2020**, 26, 1881-1898	2.4	4
152	Lattice Defects and Their Influence on the Mechanical Properties of Bulk Materials Processed by Severe Plastic Deformation. *Materials Transactions*, **2019**, 60, 1230-1242	1.3	17
151	Influence of severe plastic deformation on the microstructure and hardness of a CoCrFeNi high-entropy alloy: A comparison with CoCrFeNiMn. *Materials Characterization*, **2019**, 154, 304-314	3.9	30
150	Stored energy in nanocrystalline Ni-Mo films processed by electrodeposition. *Journal of Alloys and Compounds*, **2019**, 796, 307-313	5.7	6
149	The influence of artificial aging on the microstructure and hardness of an AlZnMgZr alloy processed by equal-channel angular pressing. *Journal of Materials Science*, **2019**, 54, 10918-10928	4.3	11
148	Freeze Casting is a Facile Method to Create Solid Solution Alloy Foams: CuNi Alloy Foams via Freeze Casting. *Advanced Engineering Materials*, **2019**, 21, 1801265	3.5	2
147	Mechanochemical Reactions of Lithium Niobate Induced by High-Energy Ball-Milling. *Crystals*, **2019**, 9, 334	2.3	11

146	Influence of Bath Additives on the Thermal Stability of the Nanostructure and Hardness of Ni Films Processed by Electrodeposition. *Coatings*, **2019**, 9, 644	2.9	9
145	Evolution of microstructure and hardness in Hf25Nb25Ti25Zr25 high-entropy alloy during high-pressure torsion. *Journal of Alloys and Compounds*, **2019**, 788, 318-328	5.7	22
144	Structure and Giant Magnetoresistance of Co-Fe/Cu Multilayer Films Electrodeposited from Various Bath Formulations. *Journal of the Electrochemical Society*, **2019**, 166, D923-D934	3.9	4
143	Type and density of dislocations in a plastically deformed long-period stacking ordered magnesium alloy. *Journal of Alloys and Compounds*, **2019**, 771, 629-635	5.7	7
142	Correlation between strain-rate sensitivity and viscous properties derived from dynamic nanoindentation of ultrafine-grained Al□n alloys. *MRS Communications*, **2019**, 9, 310-314	2.7	2
141	Influence of the initial state on the microstructure and mechanical properties of AX41 alloy processed by ECAP. *Journal of Materials Science*, **2019**, 54, 3469-3484	4.3	16
140	The effect of hydrogen charging on the evolution of lattice defects and phase composition during tension in 316L stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 739, 31-36	5.3	1
139	The influence of chemical heterogeneities on the local mechanical behavior of a high-entropy alloy: A micropillar compression study. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 721, 165-167	5.3	6
138	Compressive behavior of Cu-Ni alloy foams: Effects of grain size, porosity, pore directionality, and chemical composition. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 725, 160-170	5.3	8
137	Evolution of the Dislocation Structure During Compression in a Mg□n□ Alloy with Long Period Stacking Ordered Structure. *Minerals, Metals and Materials Series*, **2018**, 385-389	0.3	
136	Defect structure in electrodeposited nanocrystalline Ni layers with different Mo concentrations **2018**,		1
135	Exceptionally high strength and good ductility in an ultrafine-grained 316L steel processed by severe plastic deformation and subsequent annealing. *Materials Letters*, **2018**, 214, 240-242	3.3	19
134	The influence of Mo addition on the microstructure and its thermal stability for electrodeposited Ni films. *Materials Characterization*, **2018**, 145, 563-572	3.9	16
133	Annealing-Induced Hardening in Ultrafine-Grained Ni□Mo Alloys. *Advanced Engineering Materials*, **2018**, 20, 1800184	3.5	12
132	Effect of Lithiation on the Microstructure of a Cobalt Foam Processed by Freeze Casting. *Advanced Engineering Materials*, **2018**, 20, 1800343	3.5	3
131	Effect of bath additives on the microstructure, lattice defect density and hardness of electrodeposited nanocrystalline Ni films. *Surface and Coatings Technology*, **2018**, 349, 611-621	4.4	19
130	Evolution of dislocation density during compression of a Mg-Zn-Y alloy with long period stacking ordered structure. *Materials Letters*, **2017**, 190, 86-89	3.3	12
129	Structure and Magnetic Properties of Nanocrystalline Fe55Pd45 Processed by Sonoelectrodeposition. *Journal of Electronic Materials*, **2017**, 46, 3720-3725	1.9	4

128	Influence of equal channel angular pressing temperature on texture, microstructure and mechanical properties of extruded AX41 magnesium. *Journal of Alloys and Compounds*, **2017**, 705, 273-282	5.7	41
127	Effect of Mo addition on the microstructure and hardness of ultrafine-grained Ni alloys processed by a combination of cryorolling and high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 688, 92-100	5.3	21
126	The Influence of Plastic Deformation on Lattice Defect Structure and Mechanical Properties of 316L Austenitic Stainless Steel. *Materials Science Forum*, **2017**, 885, 13-18	0.4	4
125	Investigation of Lattice Defects in a Plastically Deformed High-Entropy Alloy. *Materials Science Forum*, **2017**, 885, 74-79	0.4	3
124	Study of the compression and wear-resistance properties of freeze-cast Ti and Ti-5W alloy foams for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 72, 66-73	4.1	20
123	Influence of equal channel angular pressing routes on texture, microstructure and mechanical properties of extruded AX41 magnesium alloy. *Materials Characterization*, **2017**, 123, 282-293	3.9	48
122	Evolution of the microstructure during annealing of ultrafine-grained Ni with different Mo contents. *Materials Characterization*, **2017**, 130, 56-63	3.9	10
121	Defect structure and hardness in nanocrystalline CoCrFeMnNi High-Entropy Alloy processed by High-Pressure Torsion. *Journal of Alloys and Compounds*, **2017**, 711, 143-154	5.7	73
120	Characterization Methods of Lattice Defects **2017**, 27-57		3
119	Defect Structure in Bulk Nanomaterials Processed by Severe Plastic Deformation **2017**, 59-93		1
118	Defect Structure in Low Stacking Fault Energy Nanomaterials **2017**, 95-119		
117	Correlation Between Defect Structure and Mechanical Properties of Nanocrystalline Materials **2017**, 175-223		1
116	Thermal Stability of Defect Structures in Nanomaterials **2017**, 317-371		
115	Lattice Defects in Nanoparticles and Nanomaterials Sintered From Nanopowders **2017**, 121-153		
114	Lattice Defects in Nanocrystalline Films and Multilayers **2017**, 155-173		
113	Defect Structure and Properties of Metal Matrix□Carbon Nanotube Composites **2017**, 225-246		
112	Mechanical Properties and Microstructure Development in Ultrafine-grained Materials Processed by Equal-channel Angular Pressing **2017**,		1
111	Stored energy in ultrafine-grained 316L stainless steel processed by high-pressure torsion. *Journal of Materials Research and Technology*, **2017**, 6, 339-347	5.5	21

110	Influence of Mo alloying on the thermal stability and hardness of ultrafine-grained Ni processed by high-pressure torsion. *Journal of Materials Research and Technology*, **2017**, 6, 361-368	5.5	5
109	Influence of Zn content on the microstructure and mechanical performance of ultrafine-grained Al–Zn alloys processed by high-pressure torsion. *Materials Letters*, **2017**, 186, 334-337	3.3	22
108	High temperature thermal stability of nanocrystalline 316L stainless steel processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 682, 323-331	5.3	22
107	Microstructure and mechanical properties of ultrafine-grained aluminum consolidated by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 682, 501-508	5.3	21
106	Secrets of Abraham Ganz's Train Wheels Enlightened by Materials Science Methods. *Materials Science Forum*, **2017**, 885, 55-60	0.4	
105	Practical Applications of X-Ray Line Profile Analysis **2017**, 1094-1132		1
104	Evolution of Microstructure, Phase Composition and Hardness in 316L Stainless Steel Processed by High-Pressure Torsion. *Materials Science Forum*, **2016**, 879, 502-507	0.4	4
103	Influence of High-Pressure Torsion on the Microstructure and the Hardness of a Ti-Rich High-Entropy Alloy. *Materials Science Forum*, **2016**, 879, 732-737	0.4	1
102	Microstructure, phase composition and hardness evolution in 316L stainless steel processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 657, 215-223	5.3	51
101	Microstructure and strength of nickel subjected to large plastic deformation at very high strain rate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 662, 9-15	5.3	9
100	Characterization of Defect Structure in Electrodeposited Nanocrystalline Ni Films. *Journal of the Electrochemical Society*, **2016**, 163, D107-D114	3.9	32
99	Structural characterization of ultrafine-grained interstitial-free steel prepared by severe plastic deformation. *Acta Materialia*, **2016**, 105, 258-272	8.4	57
98	Determination of dislocation density by electron backscatter diffraction and X-ray line profile analysis in ferrous lath martensite. *Materials Characterization*, **2016**, 113, 117-124	3.9	24
97	Mechanical behavior and microstructure of Ti20Hf20Zr20Ta20Nb20 high-entropy alloy loaded under quasi-static and dynamic compression conditions. *Materials Characterization*, **2016**, 111, 106-113	3.9	54
96	The Electrochemical Degradation of Poly(3,4-ethylenedioxythiophene) Films Electrodeposited from Aqueous Solutions. *Zeitschrift Fur Physikalische Chemie*, **2016**, 230, 1281-1302	3.1	22
95	Mechanical behavior and microstructure of compressed Ti foams synthesized via freeze casting. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 63, 407-416	4.1	22
94	High strength and good electrical conductivity in Cu–Cr alloys processed by severe plastic deformation. *Materials Letters*, **2015**, 153, 5-9	3.3	67
93	Microstructural investigation of plastically deformed Ti20Zr20Hf20Nb20Ta20 high entropy alloy by X-ray diffraction and transmission electron microscopy. *Materials Characterization*, **2015**, 108, 1-7	3.9	67

92	Evolution of microstructure and hardness in AZ31 alloy processed by high pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2015**, 625, 98-106	5.3	48
91	Solute redistribution during annealing of a cold rolled Cu□Ag alloy. *Journal of Alloys and Compounds* , **2015**, 623, 96-103	5.7	17
90	The Effect of Thermomechanical Treatment on the Microstructure and the Mechanical Behavior of a Supersaturated Cu-Ag Alloy. *Materials Science Forum*, **2015**, 812, 53-58	0.4	4
89	Effect of the loading mode on the evolution of the deformation mechanisms in randomly textured magnesium polycrystals □Comparison of experimental and modeling results. *International Journal of Plasticity*, **2015**, 72, 127-150	7.6	69
88	Morphological changes in electrochemically deposited poly(3,4-ethylenedioxythiophene) films during overoxidation. *Journal of Solid State Electrochemistry*, **2015**, 19, 1247-1252	2.6	20
87	Manufacturing of ultrafine-grained titanium by caliber rolling in the laboratory and in industry. *Journal of Materials Processing Technology*, **2014**, 214, 1307-1315	5.3	20
86	Improvement of strength and conductivity in Cu-alloys with the application of high pressure torsion and subsequent heat-treatments. *Journal of Materials Science*, **2014**, 49, 6674-6681	4.3	37
85	Effect of short-term annealing on the microstructures and flow properties of an Al□1% Mg alloy processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 615, 231-239	5.3	60
84	Characterization of stress□train relationships in Al over a wide range of testing temperatures. *International Journal of Plasticity*, **2014**, 54, 178-192	7.6	12
83	Examination of nanocrystalline TiC/amorphous C deposited thin films. *Journal of the European Ceramic Society*, **2014**, 34, 3421-3425	6	11
82	X-Ray Line Profile Analysis in Materials Science **2014**,		37
81	Inhomogeneous softening during annealing of ultrafine-grained silver processed by HPT. *Journal of Materials Science*, **2013**, 48, 7384-7391	4.3	5
80	Stability of the ultrafine-grained microstructure in silver processed by ECAP and HPT. *Journal of Materials Science*, **2013**, 48, 4637-4645	4.3	16
79	High temperature thermal stability of ultrafine-grained silver processed by equal-channel angular pressing. *Journal of Materials Science*, **2013**, 48, 1675-1684	4.3	14
78	High temperature thermal stability of pure copper and copper□carbon nanotube composites consolidated by High Pressure Torsion. *Composites Part A: Applied Science and Manufacturing*, **2013**, 51, 71-79	8.4	49
77	Evolution of size and shape of gold nanoparticles during long-time aging. *Materials Chemistry and Physics*, **2013**, 138, 449-453	4.4	25
76	High strength and ductile ultrafine-grained Cu□Ag alloy through bimodal grain size, dislocation density and solute distribution. *Acta Materialia*, **2013**, 61, 228-238	8.4	87
75	Deformation Mechanisms in Ultrafine-Grained Zn at Different Strain Rates and Temperatures. *Key Engineering Materials*, **2013**, 592-593, 313-316	0.4	

74	Microstructures and mechanical properties of Mg□Zn□ alloy consolidated from gas-atomized powders using high-pressure torsion. *Journal of Materials Science*, **2012**, 47, 7117-7123	4.3	30
73	Microstructure of low stacking fault energy silver processed by different routes of severe plastic deformation. *Journal of Alloys and Compounds*, **2012**, 536, S190-S193	5.7	17
72	Microstructure and dislocation density evolutions in MgAlZn alloy processed by severe plastic deformation. *Journal of Materials Science*, **2012**, 47, 7860-7869	4.3	40
71	X-ray diffraction study on the microstructure of a Mg□Zn□ alloy consolidated by high-pressure torsion. *Journal of Alloys and Compounds*, **2012**, 539, 32-35	5.7	19
70	Microstructure and mechanical properties of Al 7075 alloy processed by differential speed rolling. *Periodica Polytechnica, Mechanical Engineering*, **2012**, 56, 111	1.8	6
69	High Purity Ultrafine-Grained Nickel Processed by Dynamic Plastic Deformation: Microstructure and Mechanical Properties. *Advanced Engineering Materials*, **2012**, 14, 1027-1033	3.5	10
68	The Influence of Impurity Content on Thermal Stability of Low Stacking Fault Energy Silver Processed by Severe Plastic Deformation. *Materials Science Forum*, **2012**, 729, 222-227	0.4	4
67	Correlation between defect structure and mechanical properties of nanocrystalline materials **2012**, 167-230		
66	Defect structure and mechanical properties of metal matrix-carbon nanotube composites **2012**, 231-261		
65	Thermal stability of defect structures in nanomaterials **2012**, 263-299		
64	Defect structure in low stacking fault energy nanomaterialsm **2012**, 85-118		
63	Microstructure and Thermal Stability of Copper - Carbon Nanotube Composites Consolidated by High Pressure Torsion. *Materials Science Forum*, **2012**, 729, 228-233	0.4	4
62	Effect of Processing Conditions on Microstructure and Mechanical Behaviour of Metals Sintered from Nanopowders. *Materials Science Forum*, **2012**, 729, 49-54	0.4	1
61	Possible self-organized criticality in the Portevin-Le Chatelier effect during decomposition of solid solution alloys. *MRS Communications*, **2012**, 2, 1-4	2.7	9
60	Defect structure in bulk nanomaterials processed by severe plastic deformation **2012**, 41-83		0
59	Defect structure in nanomaterials **2012**,		13
58	Structure and mechanical behaviour of interstitial-free steel processed by equal-channel angular pressing. *Journal of Alloys and Compounds*, **2011**, 509, 3522-3525	5.7	35
57	The effect of impurity level on ultrafine-grained microstructures and their stability in low stacking fault energy silver. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 8694-8699	5.3	20

56	Texture evolution during room temperature ageing of silver processed by equal-channel angular pressing. *Scripta Materialia*, **2011**, 64, 1007-1010	5.6	5
55	Microstructure and nanohardness distribution in a polycrystalline Zn deformed by high strain rate impact. *Materials Characterization*, **2011**, 62, 480-487	3.9	19
54	Silica-Supported Au Nanoparticles Decorated by CeO2: Formation, Morphology, and CO Oxidation Activity. *Journal of Physical Chemistry C*, **2011**, 115, 20388-20398	3.8	23
53	Plastic behavior of fcc metals over a wide range of strain: Macroscopic and microscopic descriptions and their relationship. *Acta Materialia*, **2011**, 59, 2385-2391	8.4	28
52	Microstructure and hardness of copper□carbon nanotube composites consolidated by High Pressure Torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 4690-4695	5.3	64
51	Microstructural stability of Cu processed by different routes of severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 1828-1832	5.3	65
50	Stability of Ultrafine-Grained Microstructure in Fcc Metals Processed by Severe Plastic Deformation. *Key Engineering Materials*, **2011**, 465, 195-198	0.4	12
49	Microstructure and Thermal Stability in CP Titanium Processed by Electroplastic Rolling. *Key Engineering Materials*, **2011**, 465, 215-218	0.4	1
48	The Effect of Grain Boundary Sliding and Strain Rate Sensitivity on the Ductility of Ultrafine-Grained Materials. *Materials Science Forum*, **2010**, 667-669, 677-682	0.4	15
47	Unique Features of Ultrafine-Grained Microstructures in Materials Having Low Stacking Fault Energy. *Materials Science Forum*, **2010**, 659, 171-176	0.4	1
46	Monitoring of Self-Annealing in Ultrafine-Grained Silver Using Nanoindentation. *Nanoscience and Nanotechnology Letters*, **2010**, 2, 294-297	0.8	6
45	Inhomogeneous evolution of microstructure in AZ91 Mg-alloy during high temperature equal-channel angular pressing. *Journal of Alloys and Compounds*, **2010**, 492, 166-172	5.7	23
44	Principles of self-annealing in silver processed by equal-channel angular pressing: The significance of a very low stacking fault energy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 752-760	5.3	70
43	Microstructure and mechanical characteristics of bulk polycrystalline Ni consolidated from blends of powders with different particle size. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 1206-1214	5.3	62
42	On the strengthening behavior of ultrafine-grained nickel processed from nanopowders. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 3227-3235	5.3	44
41	Reduction of vacancy concentration during storage of severely deformed Cu. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 6102-6104	5.3	20
40	Plastic behavior of face-centered-cubic metals over a wide range of strain. *Acta Materialia*, **2010**, 58, 5015-5021	8.4	26
39	Microstructure and mechanical behavior of ultrafine-grained Ni processed by different powder metallurgy methods. *Journal of Materials Research*, **2009**, 24, 217-226	2.5	36

38	Processing Age-Hardenable Alloys by Equal-Channel Angular Pressing at Room Temperature: Strategies and Advantages. *Materials Science Forum*, **2009**, 633-634, 527-534	0.4	3
37	Developing a strategy for the processing of age-hardenable alloys by ECAP at room temperature. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2009**, 516, 248-252	5.3	58
36	Twinning and dislocation activity in silver processed by severe plastic deformation. *Journal of Materials Science*, **2009**, 44, 1656-1660	4.3	16
35	Correlation between microstructure and mechanical properties of severely deformed metals. *Journal of Alloys and Compounds*, **2009**, 483, 271-274	5.7	80
34	Stability of microstructure in silver processed by severe plastic deformation. *International Journal of Materials Research*, **2009**, 100, 884-887	0.5	1
33	Microstructure and yield strength of severely deformed silver. *Scripta Materialia*, **2008**, 58, 775-778	5.6	45
32	Microstructure and Mechanical Behavior of Ultrafine-Grained Titanium. *Materials Science Forum*, **2008**, 589, 99-104	0.4	18
31	Effect of Pre-Aging on the Microstructure and Strength of Supersaturated AlZnMg Alloys Processed by ECAP. *Materials Science Forum*, **2008**, 584-586, 501-506	0.4	4
30	Phase transition in nanomagnetite. *Journal of Applied Physics*, **2008**, 103, 104312	2.5	58
29	Delayed microstructural recovery in silver processed by equal-channel angular pressing. *Journal of Materials Science*, **2008**, 43, 5672-5676	4.3	15
28	Evolution of microstructure and texture in an ultrafine-grained Al6082 alloy during severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 490, 335-342	5.3	37
27	Plastic instabilities and dislocation densities during plastic deformation in Al–Mg alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 445-446, 186-192	5.3	57
26	Microstructure and yield strength of ultrafine grained aluminum processed by hot isostatic pressing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 458, 385-390	5.3	23
25	Microstructure and strength of severely deformed fcc metals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 86-90	5.3	79
24	Synthesis of nanosized zinc ferrites from liquid precursors in RF thermal plasma reactor. *Journal of the European Ceramic Society*, **2007**, 27, 941-945	6	21
23	Influence of sintering temperature and pressure on crystallite size and lattice defect structure in nanocrystalline SiC. *Journal of Materials Research*, **2007**, 22, 1314-1321	2.5	50
22	Microstructure and Mechanical Behavior of Severely Deformed F.C.C. Metals. *Materials Science Forum*, **2007**, 567-568, 181-184	0.4	6
21	Nanocrystalline materials studied by powder diffraction line profile analysis. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2007**, 222, 114-128	1	32

20	Characterization of defect structures in nanocrystalline materials by X-ray line profile analysis. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2007**, 222, 567-579	1	32
19	Microstructure of diamondSiC nanocomposites determined by X-ray line profile analysis. *Diamond and Related Materials*, **2006**, 15, 1452-1456	3.5	29
18	Microstructure of ultrafine-grained fcc metals produced by severe plastic deformation. *Current Applied Physics*, **2006**, 6, 194-199	2.6	112
17	Microstructure and mechanical behavior of AZ91 Mg alloy processed by equal channel angular pressing. *Journal of Alloys and Compounds*, **2005**, 394, 194-199	5.7	166
16	Size and shape of crystallites and internal stresses in carbon blacks. *Composites Part A: Applied Science and Manufacturing*, **2005**, 36, 431-436	8.4	45
15	Correlation between subgrains and coherently scattering domains. *Powder Diffraction*, **2005**, 20, 366-375	1.8	194
14	Properties of nanostructured diamond-silicon carbide composites sintered by high pressure infiltration technique. *Journal of Materials Research*, **2004**, 19, 2703-2707	2.5	29
13	The microstructure of mechanically alloyed AlMg determined by X-ray diffraction peak profile analysis. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 372, 115-122	5.3	63
12	Microstructure of severely deformed metals determined by X-ray peak profile analysis. *Journal of Alloys and Compounds*, **2004**, 378, 248-252	5.7	68
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