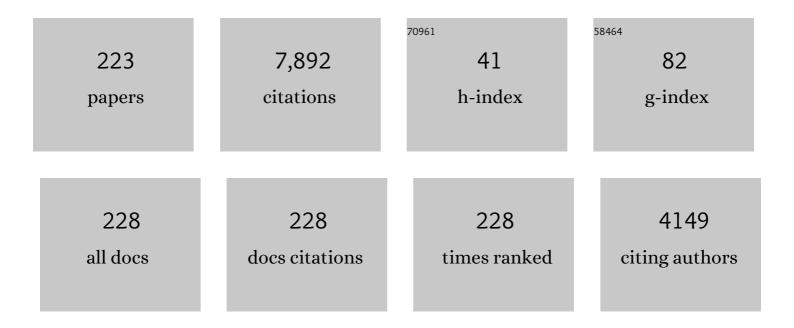
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of strain rate and corrosion products on pre-exposure stress corrosion cracking in the ZK60 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 830, 142304.	2.6	7
2	The grain size effect on strain hardening and necking instability revisited from the dislocation density evolution approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142330.	2.6	19
3	Tooth flank fracture – An applied fatigue study of case hardened bevel gears. Engineering Failure Analysis, 2022, 132, 105911.	1.8	8
4	Monitoring Dynamic Recrystallisation in Bioresorbable Alloy Mg-1Zn-0.2Ca by Means of an In Situ Acoustic Emission Technique. Materials, 2022, 15, 328.	1.3	4
5	Deformation behaviour of TWIP steels: Constitutive modelling informed by local and integral experimental methods used in concert. Materials Characterization, 2022, 184, 111667.	1.9	9
6	On the Corrosion Fatigue of Magnesium Alloys Aimed at Biomedical Applications: New Insights from the Influence of Testing Frequency and Surface Modification of the Alloy ZK60. Materials, 2022, 15, 567.	1.3	11
7	Evidence for the presence of corrosive solution within corrosion products film in magnesium alloy ZK60. Letters on Materials, 2022, 12, 76-80.	0.2	2
8	Fracture behaviour of ultrafine-grained materials under static and cyclic loading. International Journal of Materials Research, 2022, 97, 1566-1570.	0.1	5
9	Early Detection of Subsurface Fatigue Cracks in Rolling Element Bearings by the Knowledge-Based Analysis of Acoustic Emission. Sensors, 2022, 22, 5187.	2.1	4
10	Novel method for in situ damage monitoring during ultrasonic fatigue testing by the advanced acoustic emission technique. International Journal of Fatigue, 2021, 142, 105918.	2.8	18
11	Fatigue of carburised CrNiMo steel: Testing and modelling concept. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 788-804.	1.7	5
12	Heat dissipation and acoustic emission features of titanium alloys in cyclic deformation mode. Acta Mechanica, 2021, 232, 1853.	1.1	4
13	Effect of Hydrogen Concentration and Strain Rate on Hydrogen Embrittlement of Ultra-Fine-Grained Low-Carbon Steel. Advanced Structured Materials, 2021, , 159-170.	0.3	2
14	The application of acoustic emission method for ultrasonic fatigue testing monitoring. Vektor Nauki Tol Yattinskogo Gosudarstvennogo Universiteta, 2021, , 47-56.	0.1	0
15	A phenomenological model of deformation twinning kinetics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140700.	2.6	6
16	Inhibiting stress corrosion cracking by removing corrosion products from the Mg-Zn-Zr alloy pre-exposed to corrosion solutions. Acta Materialia, 2021, 205, 116570.	3.8	30
17	The processing route towards outstanding performance of the severely deformed Al–Mg–Mn-Sc-Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 806, 140818.	2.6	6
18	On the role of pre-exposure time and corrosion products in stress-corrosion cracking of ZK60 and AZ31 magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 806, 140876.	2.6	15

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19	A novel predictive model for multiaxial fatigue in carburized bevel gears. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2033-2053.	1.7	18
20	Kinetics of cyclically-induced mechanical twinning in \hat{I}^3 -TiAl unveiled by a combination of acoustic emission, neutron diffraction and electron microscopy. Acta Materialia, 2021, 212, 116921.	3.8	14
21	Challenges and Accomplishments in Mechanical Testing Instrumented by In Situ Techniques: Infrared Thermography, Digital Image Correlation, and Acoustic Emission. Applied Sciences (Switzerland), 2021, 11, 6718.	1.3	15
22	Effect of the stress-strain state on the path of quasi-cleavage hydrogen-assisted cracking in low-carbon steel. Letters on Materials, 2021, 11, 298-303.	0.2	0
23	The fundamental difference between cleavage and hydrogen-assisted quasi-cleavage in ferritic materials revealed by multiscale quantitative fractographic and side surface characterization. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and insituscharacterization of a < mml:math	2.6	4
24	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"> <mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:mn>00</mml:mn><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mo>Â⁻</mml:mo></mml:mover </mml:mrow><mml:mo>]orientated Fe–Mn–Al–Ni single crystal under compression using acoustic emission measurements.</mml:mo></mml:mrow>	o>∛¦mml:r	nrow>
25	Acta Materialia, 2021, 220, 117333 Fractographic features of technically pure magnesium, AZ31 and ZK60 alloys subjected to stress corrosion cracking. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138744.	2.6	22
26	Shear Bands Topology in the Deformed Bulk Metallic Glasses. Metals, 2020, 10, 374.	1.0	9
27	A Time-Frequency Based Approach for Acoustic Emission Assessment of Sliding Wear. Lubricants, 2020, 8, 52.	1.2	10
28	A phenomenological model of twinning-mediated strain hardening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139194.	2.6	9
29	On the long-term correlations in the twinning and dislocation slip dynamics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 777, 139091.	2.6	9
30	The Functional Properties of Mg–Zn–X Biodegradable Magnesium Alloys. Materials, 2020, 13, 544.	1.3	18
31	On subsurface initiated failures in marine bevel gears. Engineering Failure Analysis, 2020, 110, 104415.	1.8	10
32	Effect of grain size on mechanical properties and hydrogen occluding capacity of pure magnesium and alloy MA14 subjected to stress-corrosion cracking. Letters on Materials, 2020, 10, 94-99.	0.2	5
33	Effect of equal-channel angular pressing (ECAP) and current density of cathodic hydrogen charging on hydrogen trapping in the low-alloy steel. Letters on Materials, 2020, 10, 152-157.	0.2	6
34	Effect of deformation processing of the dilute Mg-1Zn-0.2Ca alloy on the mechanical properties and corrosion rate in a simulated body fluid. Letters on Materials, 2020, 10, 217-222.	0.2	12
35	Quantitative comparison of cleavage and quasi-cleavage fracture surfaces in hydrogen embrittled low-carbon steel. Letters on Materials, 2020, 10, 303-308.	0.2	4
36	A New Method of Low Amplitude Signal Detection and Its Application in Acoustic Emission. Applied Sciences (Switzerland), 2020, 10, 73.	1.3	17

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37	Effect of fracture mode on acoustic emission behavior in the hydrogen embrittled low-alloy steel. Engineering Fracture Mechanics, 2019, 210, 342-357.	2.0	21
38	Acoustic emission study on the effect of notch shape and temperature on elastic energy release during impact testing of 17Mn1Si pipe steel. Engineering Fracture Mechanics, 2019, 210, 288-299.	2.0	3
39	About the Nature of Quasi-Cleavage in Low-Carbon Steel Embrittled with Hydrogen. Metal Science and Heat Treatment, 2019, 61, 191-195.	0.2	3
40	On the role of hydrogen in stress corrosion cracking of magnesium and its alloys: Gas-analysis study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 337-346.	2.6	24
41	Phenomenological approach towards modelling the acoustic emission due to plastic deformation in metals. Scripta Materialia, 2019, 170, 172-176.	2.6	31
42	Quasi-cleavage hydrogen-assisted cracking path investigation by fractographic and side surface observations. Engineering Fracture Mechanics, 2019, 214, 177-193.	2.0	26
43	Influence of long-term cold climate operation on structure, fatigue durability and impact toughness of 09Mn2Si pipe steel. Engineering Failure Analysis, 2019, 102, 87-101.	1.8	15
44	Mechanical Twinning is a Correlated Dynamic Process. Scientific Reports, 2019, 9, 5748.	1.6	8
45	High Performance Fine-Grained Biodegradable Mg-Zn-Ca Alloys Processed by Severe Plastic Deformation. Metals, 2019, 9, 186.	1.0	36
46	Influence of the solute concentration on the anelasticity in Mg-Al alloys: A multiple-approach study. Journal of Alloys and Compounds, 2019, 786, 779-790.	2.8	25
47	Structure and strength of the 1570C aluminum alloy after complex SPD processing. IOP Conference Series: Materials Science and Engineering, 2019, 672, 012041.	0.3	0
48	Anisotropy of the acoustic emission signal on scratch testing of a single crystal of aluminum. Letters on Materials, 2019, 9, 130-135.	0.2	2
49	High strength and fatigue properties of Mg-Zn-Ca alloys after severe plastic deformation. Letters on Materials, 2019, 9, 157-161.	0.2	7
50	Acoustic emission study of the kinetics of kink bands in the LPSO structure. Letters on Materials, 2019, 9, 504-508.	0.2	1
51	Probing elementary dislocation mechanisms of local plastic deformation by the advanced acoustic emission technique. Scripta Materialia, 2018, 151, 53-56.	2.6	20
52	Analytical and numerical approaches to modelling severe plastic deformation. Progress in Materials Science, 2018, 95, 172-242.	16.0	126
53	On the shear band velocity in metallic glasses: A high-speed imaging study. Materials Letters, 2018, 225, 105-108.	1.3	7
54	Tailoring Microstructure and Properties of Fine Grained Magnesium Alloys by Severe Plastic Deformation. Advanced Engineering Materials, 2018, 20, 1700785.	1.6	28

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55	Influence of energy dissipation at the interphase boundaries on impact fracture behaviour of a plain carbon steel. Theoretical and Applied Fracture Mechanics, 2018, 97, 478-499.	2.1	14
56	Structure, texture and strength of Mg-5.8Zn-0.65Zr alloy after hot-to-warm multi-step isothermal forging and isothermal rolling to large strains. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 709, 330-338.	2.6	38
57	Quantitative Assessment of the Bauschinger Effect in Magnesium Alloys with the Asymmetry Effect. Inorganic Materials, 2018, 54, 1532-1536.	0.2	2
58	Assessing Fracture Surface Ductility by Confocal Laser Scanning Microscopy. Procedia Structural Integrity, 2018, 13, 2152-2157.	0.3	6
59	Features of the Hydrogen-Assisted Cracking Mechanism in the Low-Carbon Steel at Ex- and In-situ Hydrogen Charging. Procedia Structural Integrity, 2018, 13, 1141-1147.	0.3	5
60	Using acoustic emission signal categorization for reconstruction of wear development timeline in tribosystems: Case studies and application examples. Wear, 2018, 410-411, 83-92.	1.5	12
61	Investigation of the Microstructure Evolution and Deformation Mechanisms of a Mg-Zn-Zr-RE Twin-Roll-Cast Magnesium Sheet by In-Situ Experimental Techniques. Materials, 2018, 11, 200.	1.3	8
62	Corrosion Fatigue of Fine Grain Mg-Zn-Zr and Mg-Y-Zn Alloys. Metals, 2018, 8, 20.	1.0	10
63	Deformation behavior of Mg-alloy-based composites at different temperatures studied by neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 284-293.	2.6	10
64	Surface modification of an austenitic stainless steel wire by a multi-pulse treatment with a high-power electric current. Journal of Materials Science, 2017, 52, 8007-8015.	1.7	1
65	Dislocation characteristics of shear bands in metallic glasses. Scripta Materialia, 2017, 130, 138-142.	2.6	20
66	Improving of Acoustic Emission Signal Detection for Fatigue Fracture Monitoring. Procedia Engineering, 2017, 176, 284-290.	1.2	7
67	The role of notch tip shape and radius on deformation mechanisms of 12Cr1MoV steel under impact loading. Part 2. Influence of strain localization on fracture and numeric simulations. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1838-1853.	1.7	8
68	What governs ductility of ultrafine-grained metals? A microstructure based approach to necking instability. Acta Materialia, 2017, 141, 18-28.	3.8	66
69	Temperature Effect on Deformation and Fracture Mechanisms under Impact Loading of 17Mn1Si Steel with Explicit Accounting Structural Heterogeneity. Procedia Engineering, 2017, 187, 680-687.	1.2	1
70	Effect of severe plastic deformation on tensile and fatigue properties of fine-grained magnesium alloy ZK60. Journal of Materials Research, 2017, 32, 4362-4374.	1.2	13
71	Confocal laser scanning microscopy: The technique for quantitative fractographic analysis. Engineering Fracture Mechanics, 2017, 183, 147-158.	2.0	33
72	Advanced-reliability acoustic-emission transducers. Russian Journal of Nondestructive Testing, 2017, 53, 32-38.	0.3	0

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73	The role of notch tip shape and radius on deformation mechanisms of 12Cr1MoV steel under impact loading. Part 1. Energy parameters of fracture. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 586-596.	1.7	14
74	Application of the strain energy density approach in comparing different design solutions for improving the fatigue strength of load carrying shear welded joints. International Journal of Fatigue, 2017, 101, 371-384.	2.8	15
75	A Phenomenological Model of Twinning Kinetics. Advanced Engineering Materials, 2017, 19, 1600092.	1.6	10
76	Technique for the Determination of the Critical Points under Acoustic Emission Tribological Tests. Inorganic Materials, 2017, 53, 1506-1512.	0.2	2
77	Universal Educational and Research Facility for the Study of the Processes of Generation and Propagation of Acoustic Emission Waves. Inorganic Materials, 2017, 53, 1548-1554.	0.2	1
78	Effect of Structural Heterogeneity of 17Mn1Si Steel on the Temperature Dependence of Impact Deformation and Fracture. Metals, 2017, 7, 280.	1.0	4
79	Effect of Temperature-Force Factors and Concentrator Shape on Impact Fracture Mechanisms of 17Mn1Si Steel. Advances in Materials Science and Engineering, 2017, 2017, 1-12.	1.0	6
80	On the corrosion of ZK60 magnesium alloy after severe plastic deformation. Letters on Materials, 2017, 7, 421-427.	0.2	28
81	The effect of stacking fault energy on acoustic emission in pure metals with face-centered crystal lattice. Letters on Materials, 2017, 7, 437-441.	0.2	6
82	Acoustic Emission Assessment of Impending Fracture in a Cyclically Loading Structural Steel. Metals, 2016, 6, 266.	1.0	7
83	Evolution of Mechanical Twinning during Cyclic Deformation of Mg-Zn-Ca Alloys. Metals, 2016, 6, 304.	1.0	9
84	Quantitative characterization of cleavage and hydrogen-assisted quasi-cleavage fracture surfaces with the use of confocal laser scanning microscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 665, 35-46.	2.6	34
85	Numerical and Experimental Study of Strain Localization in Notched Specimens of a Ductile Steel on Meso―and Macroscales. Advanced Engineering Materials, 2016, 18, 2095-2106.	1.6	9
86	The Use of Confocal Laser Scanning Microscopy for the 3D Quantitative Characterization of Fracture Surfaces and Cleavage Facets Procedia Structural Integrity, 2016, 2, 533-540.	0.3	12
87	A novel Bayesian approach to acoustic emission data analysis. Ultrasonics, 2016, 72, 89-94.	2.1	21
88	Acoustic Emission as a Tool for Exploring Deformation Mechanisms in Magnesium and Its Alloys In Situ. Jom, 2016, 68, 3057-3062.	0.9	17
89	On the limits of acoustic emission detectability for twinning. Materials Letters, 2016, 183, 417-419.	1.3	45
90	In situ observations of the kinetics of twinning–detwinning and dislocation slip in magnesium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 351-360.	2.6	33

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91	Controlling strength and ductility: Dislocation-based model of necking instability and its verification for ultrafine grain 316L steel. Acta Materialia, 2016, 106, 295-303.	3.8	66
92	Influence of alloying with hafnium on the microstructure, texture, and properties of Cu–Cr alloy after equal channel angular pressing. Journal of Materials Science, 2016, 51, 5493-5501.	1.7	27
93	The Portevin–Le Châtelier Effect in a Metastable Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 59-74.	1.1	31
94	Mechanical Properties of Ultrafineâ€Grained Metals: New Challenges and Perspectives. Advanced Engineering Materials, 2015, 17, 1710-1722.	1.6	46
95	Fatigue Performance of Mg-Zn-Zr Alloy Processed by Hot Severe Plastic Deformation. Metals, 2015, 5, 2316-2327.	1.0	22
96	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.	4.1	86
97	The specific features of acoustic-emission testing of vessel equipment with a wall delamination of a technological origin. Russian Journal of Nondestructive Testing, 2015, 51, 280-291.	0.3	1
98	Irreversible thermodynamics approach to plasticity: Dislocation density based constitutive modelling. Materials Science and Technology, 2015, 31, 1664-1672.	0.8	9
99	Application of acoustic emission method for investigation of hydrogen embrittlement mechanism in the low-carbon steel. Journal of Alloys and Compounds, 2015, 645, S460-S463.	2.8	24
100	Wavelet based approach to signal activity detection and phase picking: Application to acoustic emission. Signal Processing, 2015, 115, 110-119.	2.1	40
101	Deformation mechanisms underlying tension–compression asymmetry in magnesium alloy ZK60 revealed by acoustic emission monitoring. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 621, 243-251.	2.6	46
102	Note: High-speed optical imaging powered by acoustic emission triggering. Review of Scientific Instruments, 2014, 85, 076103.	0.6	15
103	Stochastic dislocation kinetics and fractal structures in deforming metals probed by acoustic emission and surface topography measurements. Journal of Applied Physics, 2014, 115, .	1.1	36
104	Deformation mechanisms in austenitic TRIP/TWIP steels at room and elevated temperature investigated by acoustic emission and scanning electron microscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 183-193.	2.6	57
105	Revisiting the Considère criterion from the viewpoint of dislocation theory fundamentals. Scripta Materialia, 2014, 76, 37-40.	2.6	138
106	Low-cycle fatigue of Fe-20%Cr alloy processed by equal- channel angular pressing. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012160.	0.3	1
107	On the nature of acoustic emission and internal friction during cyclic deformation of metals. Acta Materialia, 2014, 70, 8-18.	3.8	20
108	Real time acoustic emission methodology in effective tribology testing. International Journal of Microstructure and Materials Properties, 2014, 9, 360.	0.1	2

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109	Dislocation model for the behavior of fractal dimension of the microstructure of a strained solid. Physics of the Solid State, 2013, 55, 346-352.	0.2	1
110	Localized and homogeneous plastic flow in bulk glassy Pd40Cu30Ni10P20: An acoustic emission study. Journal of Applied Physics, 2013, 113, 153503.	1.1	7
111	Location of noise-like sources of acoustic emissions using the spectral similarity method. Russian Journal of Nondestructive Testing, 2013, 49, 553-561.	0.3	2
112	Extreme grain refinement by severe plastic deformation: A wealth of challenging science. Acta Materialia, 2013, 61, 782-817.	3.8	1,505
113	Kinetics of deformation processes in high-alloyed cast transformation-induced plasticity/twinning-induced plasticity steels determined by acoustic emission and scanning electron microscopy: Influence of austenite stability on deformation mechanisms. Acta Materialia, 2013, 61, 2434-2449.	3.8	91
114	Effect of grain size on the mechanisms of plastic deformation in wrought Mg–Zn–Zr alloy revealed by acoustic emission measurements. Acta Materialia, 2013, 61, 2044-2056.	3.8	104
115	A real-time approach to acoustic emission clustering. Mechanical Systems and Signal Processing, 2013, 40, 791-804.	4.4	131
116	Cluster Analysis of Acoustic Emissions Measured during Deformation of Duplex Stainless Steels. Materials Transactions, 2013, 54, 532-539.	0.4	11
117	Cyclic Response of SUS316L Stainless Steel Processed by ECAP. Materials Transactions, 2013, 54, 1612-1618.	0.4	5
118	Fatigue Crack Growth and Related Microstructure Evolution in Ultrafine Grain Copper Processed by ECAP. Materials Transactions, 2012, 53, 101-108.	0.4	20
119	Evolution of Fractal Structures in Dislocation Ensembles during Plastic Deformation. Physical Review Letters, 2012, 108, 205504.	2.9	33
120	Effect of dislocation hardening on monotonic and cyclic strength of severely deformed copper. Philosophical Magazine, 2012, 92, 666-689.	0.7	14
121	Continuous acoustic emission during intermittent plastic flow in α-brass. Scripta Materialia, 2012, 66, 745-748.	2.6	37
122	Improvement of fatigue strength of a Mg–Zn–Zr alloy by integrated extrusion and equal-channel angular pressing. Scripta Materialia, 2012, 67, 209-212.	2.6	39
123	Effect of strain rate on acoustic emission during hydrogen assisted cracking in high carbon steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 408-417.	2.6	17
124	The influence of temporary hydrogenation on ECAP formability and low cycle fatigue life of CP titanium. Journal of Alloys and Compounds, 2011, 509, 2709-2715.	2.8	14
125	Acoustic Emission during Hydrogen Charging of a Pipeline Steel. ISIJ International, 2011, 51, 1682-1687.	0.6	2
126	The control of texture to improve high-cyclic fatigue performance in copper after equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 174-182.	2.6	13

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127	Probing Shear-Band Initiation in Metallic Glasses. Physical Review Letters, 2011, 107, 185502.	2.9	135
128	Enhanced fatigue properties of nanostructured austenitic SUS 316L stainless steel. Acta Materialia, 2011, 59, 7060-7069.	3.8	167
129	Nanostructurization assisted by twinning during equal channel angular pressing of metastable 316L stainless steel. Journal of Materials Science, 2011, 46, 4276-4283.	1.7	52
130	Dynamic precipitation during cyclic deformation of an underaged Al–Cu alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7410-7416.	2.6	60
131	Deformation and Fracture Behavior of Metallic Glassy Alloys and Glassy-Crystal Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1504-1510.	1.1	18
132	On the reversibility of dislocation slip during cyclic deformation of Al alloys containing shear-resistant particles. Acta Materialia, 2011, 59, 3720-3736.	3.8	51
133	Reversible nature of shear bands in copper single crystals subjected to iterative shear of ECAP in forward and reverse directions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2602-2609.	2.6	17
134	On shear band velocity and the detectability of acoustic emission in metallic glasses. Scripta Materialia, 2010, 63, 89-92.	2.6	39
135	Fatigue behaviour of light alloys with ultrafine grain structure produced by severe plastic deformation: An overview. International Journal of Fatigue, 2010, 32, 898-907.	2.8	235
136	Propagation of shear bands in metallic glasses and transition from serrated to non-serrated plastic flow at low temperatures. Acta Materialia, 2010, 58, 6736-6743.	3.8	40
137	Formation of Deformation Twins and Related Shear Bands in Copper Single Crystals Pressed by ECAP. Materials Science Forum, 2010, 654-656, 1231-1234.	0.3	0
138	Comparative analysis of inhomogeneous plastic flow in bulk and ribbon metallic glasses monitored by acoustic emission. Journal of Alloys and Compounds, 2010, 504, S60-S64.	2.8	5
139	On the role of dislocation hardening in the monotonic and cyclic strength of severely plastically deformed metals. Scripta Materialia, 2009, 61, 817-820.	2.6	10
140	Nanostructure formation in the surface layer of metals under influence of high-power electric current pulse. Journal of Materials Science, 2009, 44, 4546-4552.	1.7	2
141	High-strength and ductile glassy-crystal Ni–Cu–Zr–Ti composite exhibiting stress-induced martensitic transformation. Philosophical Magazine, 2009, 89, 2887-2901.	0.7	42
142	Formation of Deformation Twins and Related Shear Bands in a Copper Single Crystal Deformed by Equal-Channel Angular Pressing for One Pass at Room Temperature. Materials Transactions, 2009, 50, 1924-1929.	0.4	19
143	Corrosion of ultra-fine grained copper fabricated by equal-channel angular pressing. Corrosion Science, 2008, 50, 1215-1220.	3.0	135
144	On the deformation and fracture behaviour of a Zr-based glassy alloy. Philosophical Magazine, 2008, 88, 2979-2987.	0.7	23

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145	Surface amorphization in conductors by using skin effect: Model and experiment. Journal of Applied Physics, 2007, 101, 033510.	1.1	6
146	Intergranular Corrosion of Ultrafine Grain Copper Fabricated by ECAP. Materials Science Forum, 2007, 561-565, 2385-2388.	0.3	4
147	Microstructural characteristics of pure gold processed by equal-channel angular pressing. Scripta Materialia, 2007, 56, 947-950.	2.6	35
148	Fatigue limit and crack growth in ultra-fine grain metals produced by severe plastic deformation. Journal of Materials Science, 2007, 42, 1797-1808.	1.7	125
149	Fracture and Fatigue Resistance of Ultrafine Grain CuCrZr Alloy Produced ECAP. Materials Science Forum, 2006, 503-504, 811-816.	0.3	16
150	The Effect of the Initial Orientation on Microstructure Development of Copper Single Crystals Subjected to Equal-Channel Angular Pressing. Materials Science Forum, 2006, 503-504, 799-804.	0.3	17
151	Structure and Mechanical Properties of Submicrocrystalline Copper Produced by ECAP to Very High Strains. Materials Science Forum, 2006, 503-504, 971-976.	0.3	15
152	Monotonic and Cyclic Behavior of Ultrafine Grain Metals:Overview. Materials Science Forum, 2006, 503-504, 267-274.	0.3	5
153	Hardening Mechanisms of Metals and Alloys Produced by SPD. Materials Science Forum, 2006, 503-504, 967-970.	0.3	3
154	Correlation between Acoustic Emission and Internal Friction in Materials. Advanced Materials Research, 2006, 13-14, 313-322.	0.3	2
155	Fracture behaviour of ultrafine-grained materials under static and cyclic loading. International Journal of Materials Research, 2006, 97, 1566-1570.	0.1	22
156	Dislocation structures and crystal orientations of copper single crystals deformed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 405, 221-232.	2.6	54
157	Effect of strain path on structure and mechanical behavior of ultra-fine grain Cu?Cr alloy produced by equal-channel angular pressing. Acta Materialia, 2005, 53, 2181-2192.	3.8	135
158	Microstructure and texture development of copper single crystals deformed by equal-channel angular pressing. Philosophical Magazine Letters, 2004, 84, 235-243.	0.5	57
159	Kinetics of shear banding in a bulk metallic glass monitored by acoustic emission measurements. Philosophical Magazine, 2004, 84, 2147-2166.	0.7	50
160	Surface treatment of metals by high-power electric current pulses. Philosophical Magazine Letters, 2004, 84, 575-585.	0.5	2
161	Strengthening of Au and Au Alloys by ECAP Processing. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 1086-1088.	0.2	2
162	Strength Enhancement and Deformation Behavior of Gold after Equal-Channel Angular Pressing. Materials Transactions, 2004, 45, 2200-2208.	0.4	22

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163	Effect of Chemical Composition on Structure and Properties of Ultrafine Grained Cu-Cr-Zr Alloys Produced by Equal-Channel Angular Pressing. Materials Transactions, 2004, 45, 2187-2191.	0.4	46
164	Thermodynamic aspects of structural evolution during electroplating of metals. Annales De Chimie: Science Des Materiaux, 2003, 28, 117-125.	0.2	2
165	Fatigue of Severely Deformed Metals. Advanced Engineering Materials, 2003, 5, 351-358.	1.6	75
166	Effect of solid solution hardening and stacking fault energy on plastic flow and acoustic emission in Cu–Ge alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 341, 57-73.	2.6	48
167	Fatigue life of fine-grain Al–Mg–Sc alloys produced by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 349, 318-326.	2.6	107
168	Enhanced strength and fatigue life of ultra-fine grain Fe–36Ni Invar alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 355, 277-285.	2.6	105
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