Xiaoxu Huang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Unprecedented age-hardening and its structural requirement in a severely deformed Al-Cu-Mg alloy. Scripta Materialia, 2022, 206, 114240.	5.2	7
2	Strengthening mechanisms in selective laser melted 316L stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142434.	5.6	29
3	Tracking the sliding of grain boundaries at the atomic scale. Science, 2022, 375, 1261-1265.	12.6	115
4	Single-crystal two-dimensional material epitaxy on tailored non-single-crystal substrates. Nature Communications, 2022, 13, 1773.	12.8	12
5	The mechanism for an orientation dependence of grain boundary strengthening in pure titanium. International Journal of Plasticity, 2022, 153, 103276.	8.8	28
6	Five-parameter grain boundary character distribution of gold nanoparticles based on three dimensional orientation mapping in the TEM. Scripta Materialia, 2022, 214, 114677.	5.2	6
7	Graphene Growth across the Twin Boundaries of Copper Substrate. Advanced Functional Materials, 2022, 32, .	14.9	2
8	Superior high temperature creep resistance of a cast Al–Mg–Ca-Sc alloy with multi-scale hierarchical microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 850, 143533.	5.6	13
9	In-situ synchrotron X-ray micro-diffraction investigation of ultra-low-strain deformation microstructure in laminated Ti-Al composites. Acta Materialia, 2021, 202, 149-158.	7.9	27
10	Segregation and precipitation stabilizing an ultrafine lamellar-structured Al-0.3%Cu alloy. Acta Materialia, 2021, 206, 116595.	7.9	12
11	Enhanced strength in pure Ti via design of alternating coarse- and fine-grain layers. Acta Materialia, 2021, 206, 116627.	7.9	62
12	Cryogenic toughness in a low-cost austenitic steel. Communications Materials, 2021, 2, .	6.9	28
13	Development of micro-Laue technique at Shanghai Synchrotron Radiation Facility for materials sciences. Science China Materials, 2021, 64, 2348-2358.	6.3	5
14	Microstructure, texture and mechanical properties of sandwiched ARB6/2/6 2N Al fabricated by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 817, 141356.	5.6	7
15	Evading strength-corrosion tradeoff in Mg alloys via dense ultrafine twins. Nature Communications, 2021, 12, 4616.	12.8	126
16	A quantitative study on mechanical behavior of Mg alloys with bimodal texture components. Acta Materialia, 2021, 214, 117013.	7.9	35
17	Effects of precipitates versus solute atoms on the deformation-induced grain refinement in an Al–Cu–Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 771, 138486.	5.6	10
18	The synergy of boundary engineering and segregation strategy towards high strength and ductility Mg-3Gd alloy. Journal of Alloys and Compounds, 2020, 819, 153051.	5.5	14

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19	Transitions in mechanical behavior and in deformation mechanisms enhance the strength and ductility of Mg-3Gd. Acta Materialia, 2020, 183, 398-407.	7.9	136
20	Heterogeneity and Homogeneity in 2/4ÂN Multilayered Al Fabricated by Accumulative Roll Bonding and Annealing. Journal of Materials Engineering and Performance, 2020, 29, 6147-6154.	2.5	0
21	altimg="si1.svg"> <mml:mrow> <mml:mrow> <mml:mo stretchy="true"> { <mml:mrow> <mml:mn> 10 </mml:mn> <mml:mrow> <mml:mover accent="true"> <mml:mn> 1 </mml:mn> <mml:mo> Å⁻ </mml:mo> </mml:mover </mml:mrow> <mml:mn> 2 stretchy="true"> </mml:mn></mml:mrow> twinning behavior under biavial</mml:mo </mml:mrow></mml:mrow>	n ⁸ ;8/1001	:mrow> <mrn< td=""></mrn<>
22	tension of Mga€' 3Ala€' 12n plate. International Journal of Plasticity, 2020, 132, 102754. TEM-based dislocation tomography: Challenges and opportunities. Current Opinion in Solid State and Materials Science, 2020, 24, 100833.	11.5	20
23	Dislocation structure and dynamics govern pop-in modes of nanoindentation on single-crystal metals. Philosophical Magazine, 2020, 100, 1585-1606.	1.6	15
24	2D and 3D orientation mapping in nanostructured metals: A review. Nano Materials Science, 2020, 2, 50-57.	8.8	20
25	High-pressure strengthening in ultrafine-grained metals. Nature, 2020, 579, 67-72.	27.8	96
26	Termination of local strain concentration led to better tensile ductility in multilayered 2N/4N Al sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 782, 139240.	5.6	8
27	Grain Size Effect on the Mechanical Behavior of Metastable Fe-23Cr-8.5Ni Alloy. Metals, 2019, 9, 734.	2.3	8
28	twin nucleation at prismatic/basal boundary in hexagonal close-packed metals. Philosophical Magazine, 2019, 99, 2584-2603.	1.6	8
29	Pt-20Rh dispersion strengthened by ZrO2 - Microstructure and strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138305.	5.6	7
30	Unprecedented strength in pure iron via high-pressure induced nanotwinned martensite. Materials Research Letters, 2019, 7, 354-360.	8.7	22
31	Interaction between nano-voids and migrating grain boundary by molecular dynamics simulation. Acta Materialia, 2019, 173, 206-224.	7.9	52
32	Heterogeneous microstructure and enhanced mechanical properties in annealed multilayered IF steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 262-271.	5.6	15
33	Quantitative prediction of texture effect on Hall–Petch slope for magnesium alloys. Acta Materialia, 2019, 173, 142-152.	7.9	126
34	Enhancement of an additive-manufactured austenitic stainless steel by post-manufacture heat-treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 65-69.	5.6	75
35	Microstructure and strength of weldment in Pt20Rh alloys dispersion-strengthened by ZrO2 particles. IOP Conference Series: Materials Science and Engineering, 2019, 580, 012035.	0.6	0
36	Gradient Microstructure in a Gear Steel Produced by Pressurized Gas Nitriding. Materials, 2019, 12, 3797.	2.9	3

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37	Grain boundary induced deformation mechanisms in nanocrystalline Al by molecular dynamics simulation: From interatomic potential perspective. Computational Materials Science, 2019, 156, 421-433.	3.0	42
38	Structure and strength of sub-100 nm lamellar structures in cold-drawn pearlitic steel wire. Materials Science and Technology, 2018, 34, 794-808.	1.6	24
39	Development of Goss texture in Al–0.3%Cu annealed after heavy rolling. Journal of Alloys and Compounds, 2018, 749, 399-405.	5.5	24
40	Atomistic Simulation of the Interaction Between Point Defects and Twin Boundary (Phys. Status Solidi) Tj ETQq(0 0 0 ₁₅ gBT	/Overlock 10
41	Simultaneous Enhancement of Mechanical and Magnetic Properties in Extremely-Fine Nanograined Ni-P Alloys. Nanomaterials, 2018, 8, 792.	4.1	Ο
42	Managing both strength and ductility in duplex stainless steel with heterogeneous lamella structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 190-193.	5.6	16
43	In-situ investigation of the evolution of annealing twins in high purity aluminium. Scripta Materialia, 2018, 153, 68-72.	5.2	21
44	Strengthening mechanisms and Hall-Petch stress of ultrafine grained Al-0.3%Cu. Acta Materialia, 2018, 156, 369-378.	7.9	118
45	Laminated Fe-34.5†Mn-0.04C composite with high strength and ductility. Journal of Materials Science and Technology, 2018, 34, 1939-1943.	10.7	22
46	Atomistic Simulation of the Interaction Between Point Defects and Twin Boundary. Physica Status Solidi (B): Basic Research, 2018, 255, 1800228.	1.5	3
47	In situ TEM investigation on void coalescence in metallic materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 734, 260-268.	5.6	14
48	Hall-Petch strengthening in Fe-34.5Mn-0.04C steel cold-rolled, partially recrystallized and fully recrystallized. Scripta Materialia, 2018, 155, 41-45.	5.2	43
49	Dependence of dislocation structure on orientation and slip systems in highly oriented nanotwinned Cu. Acta Materialia, 2017, 127, 85-97.	7.9	79
50	The mechanism for the high dependence of the Hall-Petch slope for twinning/slip on texture in Mg alloys. Acta Materialia, 2017, 128, 313-326.	7.9	247
51	Uniaxial stress-driven grain boundary migration in Hexagonal Close-packed (HCP) metals: Theory and MD simulations. International Journal of Plasticity, 2017, 95, 82-104.	8.8	16
52	Non-spherical voids and lattice reorientation patterning in a shock-loaded Al single crystal. Acta Materialia, 2017, 134, 16-30.	7.9	8
53	Deformation Induced Martensitic Transformation and Its Initial Microstructure Dependence in a High Alloyed Duplex Stainless Steel. Steel Research International, 2017, 88, 1700169.	1.8	9
54	Microstructural and hardness gradients in Cu processed by high pressure surface rolling. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012025.	0.6	2

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55	Characterization of voids in shock-loaded Al single crystal by combining X-ray tomography and electron microscopy. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012027.	0.6	0
56	Characterization of Cu Distribution in an Al-0.3%Cu Alloy Cold Rolled to 98%. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012038.	0.6	1
57	Electron tomography of dislocations in an Al-Cu-Mg alloy. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012018.	0.6	4
58	Structural refinement and property optimization in an Fe-23Cr-8.5Ni duplex stainless steel. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012045.	0.6	0
59	Orientation and length scale effects on dislocation structure in highly oriented nanotwinned Cu. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012032.	0.6	0
60	Gradient microstructure and microhardness in a nitrided 18CrNiMo7-6 gear steel. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012047.	0.6	1
61	Effect of shot peening on the residual stress and mechanical behaviour of low-temperature and high-temperature annealed martensitic gear steel 18CrNiMo7-6. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012046.	0.6	5
62	Observation of simultaneous increase in strength and ductility by grain refinement in a Fe-34.5Mn-0.04C steel. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012043.	0.6	4
63	Hydrogen-induced room-temperature plasticity in TC4 and TC21 alloys. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012049.	0.6	1
64	A gradient surface produced by combined electroplating and incremental frictional sliding. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012048.	0.6	0
65	EBSD characterization of deformed lath martensite in IF steel. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012033.	0.6	3
66	The different effects of twin boundary and grain boundary on reducing tension-compression yield asymmetry of Mg alloys. Scientific Reports, 2016, 6, 29283.	3.3	36
67	Laminated Ti-Al composites: Processing, structure and strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 572-580.	5.6	92
68	Dislocation-based plasticity and strengthening mechanisms in sub-20Ânm lamellar structures in pearlitic steel wire. Acta Materialia, 2016, 114, 176-183.	7.9	112
69	Influence of strain rate on the orientation dependence of microstructure in nickel single crystals. Philosophical Magazine Letters, 2016, 96, 52-59.	1.2	1
70	Characterization of Si particles and their effects on and recrystallization in a nanostructured cold rolled Al-1% Si alloy. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012028.	0.6	0
71	Combined effect of rapid nitriding and plastic deformation on the surface strength, toughness and wear resistance of steel 38CrMoAlA. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012046.	0.6	0
72	Effects of thermomechanical processing on the recrystallization texture and grain size of Al-1%Si sputtering target material. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012065.	0.6	0

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73	Microstructure and mechanical properties of ARB processed Mg-3% Gd alloy. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012052.	0.6	1
74	Gradient nanostructured surface of a Cu plate processed by incremental frictional sliding. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012026.	0.6	3
75	A semi-numerical algorithm for instability of compressible multilayered structures. Computational Mechanics, 2015, 56, 63-75.	4.0	13
76	In situ observation of triple junction motion during recovery of heavily deformed aluminum. Acta Materialia, 2015, 86, 269-278.	7.9	43
77	Low-Energy Dislocation Structure (LEDS) character of dislocation boundaries aligned with slip planes in rolled aluminium. Philosophical Magazine, 2015, 95, 1471-1489.	1.6	14
78	Development of a strong Goss texture during annealing of a heavily rolled Al—0.3% Cu alloy. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012050.	0.6	6
79	Effects of interface roughness on the annealing behaviour of laminated Ti-Al composite deformed by hot rolling. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012021.	0.6	11
80	Recrystallization textures and microstructures of Al-0.3%Cu alloy after deformation to high strains. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012032.	0.6	4
81	Recovery by triple junction motion in heavily deformed metals. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012014.	0.6	3
82	Heterogeneous lamella structure unites ultrafine-grain strength with coarse-grain ductility. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14501-14505.	7.1	1,202
83	Observation of a New Mechanism Balancing Hardening and Softening in Metals. Materials Research Letters, 2014, 2, 160-165.	8.7	34
84	Observation and Schmid factor analysis of multiple twins in a warm-rolled Mg–3Al–1Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 596, 41-44.	5.6	41
85	Particle stabilization of plastic flow in nanostructured Al-1Â%Si Alloy. Journal of Materials Science, 2014, 49, 6667-6673.	3.7	5
86	Surface Ripples of Polymeric Nanofibers under Tension: The Crucial Role of Poisson's Ratio. Macromolecules, 2014, 47, 6503-6514.	4.8	22
87	Length scale effect on the deformation microstructures of grown-in twins in copper. Philosophical Magazine, 2014, 94, 2262-2280.	1.6	4
88	Characteristics of long {10-12} twin bands in sheet rolling of a magnesium alloy. Scripta Materialia, 2014, 74, 96-99.	5.2	102
89	Linking recovery and recrystallization through triple junction motion in aluminum cold rolled to a large strain. Acta Materialia, 2013, 61, 6577-6586.	7.9	50
90	Observations of orientation dependence of surface morphology in tungsten implanted by low energy and high flux D plasma. Journal of Nuclear Materials, 2013, 443, 452-457.	2.7	55

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91	Influence of grain size in the near-micrometre regime on the deformation microstructure in aluminium. Acta Materialia, 2013, 61, 7072-7086.	7.9	48
92	Dislocation content of geometrically necessary boundaries aligned with slip planes in rolled aluminium. Philosophical Magazine, 2013, 93, 3118-3141.	1.6	47
93	Coupling of Local Texture and Microstructure Evolution during Restoration Processes in Aluminum Deformed to Large Strains. Materials Science Forum, 2013, 753, 251-256.	0.3	0
94	Hierarchical structures in cold-drawn pearlitic steel wire. Acta Materialia, 2013, 61, 4898-4909.	7.9	99
95	Formation of a Random Recrystallization Texture in Heavily Cold Rolled and Annealed Al-1%Si Alloy. Materials Science Forum, 2013, 753, 243-246.	0.3	2
96	Recovery mechanisms in nanostructured aluminium. Philosophical Magazine, 2012, 92, 4056-4074.	1.6	22
97	Strain distribution during tensile deformation of nanostructured aluminum samples. Journal of Materials Science, 2012, 47, 7901-7907.	3.7	6
98	Effect of hardness of martensite and ferrite on void formation in dual phase steel. Materials Science and Technology, 2012, 28, 1092-1100.	1.6	94
99	Preface to the special issue on ultrafine-grained materials. Journal of Materials Science, 2012, 47, 7717-7718.	3.7	2
100	Cold rolled nanostructured super-pure Al (99.9996Â%) containing 1Â% Si particles: structure and strength. Journal of Materials Science, 2012, 47, 7914-7920.	3.7	14
101	Hall–Petch and dislocation strengthening in graded nanostructured steel. Acta Materialia, 2012, 60, 5933-5943.	7.9	145
102	Ultrafine Structure and High Strength in Cold-Rolled Martensite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3517-3531.	2.2	42
103	Thermal Behavior of Nickel Deformed to Ultra-High Strain by High Pressure Torsion. Materials Science Forum, 2012, 715-716, 387-392.	0.3	0
104	Stringâ€Ofâ€Pearls Locking Plate and Cerclage Wire Stabilization of Periprosthetic Femoral Fractures after Total Hip Replacement in Six Dogs. Veterinary Surgery, 2012, 41, 180-188.	1.0	14
105	Plastic deformation of submicron-sized crystals studied by in-situ Kikuchi diffraction and dislocation imaging. Materials Characterization, 2012, 70, 21-27.	4.4	24
106	Rapid hardening induced by electric pulse annealing in nanostructured pure aluminum. Scripta Materialia, 2012, 66, 147-150.	5.2	33
107	Orientation dependence of the deformation microstructure in compressed aluminum. Scripta Materialia, 2012, 66, 359-362.	5.2	33
108	Twin stability in highly nanotwinned Cu under compression, torsion and tension. Scripta Materialia, 2012 66 872-877	5.2	61

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109	Recovery by triple junction motion in aluminium deformed to ultrahigh strains. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 3039-3065.	2.1	72
110	Dislocations, boundaries and slip systems in cube grains of rolled aluminium. Scripta Materialia, 2011, 65, 355-358.	5.2	38
111	Enhancement of strength and stability of nanostructured Ni by small amounts of solutes. Scripta Materialia, 2011, 65, 481-484.	5.2	41
112	Effect of Grain Boundaries and Grain Orientation on Structure and Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 613-625.	2.2	41
113	Microstructure and strengthening mechanisms in cold-drawn pearlitic steel wire. Acta Materialia, 2011, 59, 3422-3430.	7.9	275
114	Three-Dimensional Orientation Mapping in the Transmission Electron Microscope. Science, 2011, 332, 833-834.	12.6	114
115	Quantitative TEM analysis of Al/Cu multilayer systems prepared by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2010, 101, 677-680.	2.3	5
116	Thermal behavior of Ni (99.967% and 99.5% purity) deformed to an ultra-high strain by high pressure torsion. Acta Materialia, 2010, 58, 1698-1707.	7.9	116
117	Nucleation and thickening of shear bands in nano-scale twin/matrix lamellae of a Cu–Al alloy processed by dynamic plastic deformation. Acta Materialia, 2010, 58, 3103-3116.	7.9	172
118	Strengthening mechanisms and optimization of structure and properties in a nanostructured IF steel. Journal of Materials Science, 2010, 45, 4761-4769.	3.7	21
119	Evolution of cementite morphology in pearlitic steel wire during wet wire drawing. Materials Characterization, 2010, 61, 65-72.	4.4	80
120	Strong crystal size effect on deformation twinning. Nature, 2010, 463, 335-338.	27.8	553
121	Microstructure of Pure Ni Subjected to High Pressure Torsion. Materials Science Forum, 2010, 667-669, 529-534.	0.3	1
122	Tailoring dislocation structures and mechanical properties of nanostructured metals produced by plastic deformation. Scripta Materialia, 2009, 60, 1078-1082.	5.2	48
123	Preface to the Viewpoint Set: Nanostructured metals – Advances in processing, characterization and application. Scripta Materialia, 2009, 60, 1031-1032.	5.2	2
124	Grain orientation dependence of deformation twinning in pure Cu subjected to dynamic plastic deformation. Scripta Materialia, 2009, 61, 289-292.	5.2	56
125	Strengthening mechanisms in nanostructured high-purity aluminium deformed to high strain and annealed. Acta Materialia, 2009, 57, 4198-4208.	7.9	523
126	Revealing the Maximum Strength in Nanotwinned Copper. Science, 2009, 323, 607-610.	12.6	1,688

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127	Structure and Strength of IF Steel After Large Strain Deformation. , 2009, , 33-42.		1
128	Property optimization of nanostructured ARB-processed Al by post-process deformation. Journal of Materials Science, 2008, 43, 7397-7402.	3.7	14
129	Thermal stability of aluminum cold rolled to large strain. Journal of Materials Science, 2008, 43, 6254-6259.	3.7	20
130	Tailoring structures through two-step annealing process in nanostructured aluminum produced by accumulative roll-bonding. Journal of Materials Science, 2008, 43, 7313-7319.	3.7	10
131	Grain orientation, deformation microstructure and flow stress. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 494, 61-67.	5.6	64
132	Evolution of microstructural parameters and flow stresses toward limits in nickel deformed to ultra-high strains. Acta Materialia, 2008, 56, 5451-5465.	7.9	117
133	Strengthening mechanisms in nanostructured aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 483-484, 102-104.	5.6	76
134	Increasing the ductility of nanostructured Al and Fe by deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 493, 184-189.	5.6	26
135	Chapter 18 THz Investigations of Condensed Phase Biomolecular Systems. Methods in Cell Biology, 2008, 90, 417-434.	1.1	7
136	Nanostructured Aluminum and IF Steel Produced by Rolling—a Comparative Study. ISIJ International, 2008, 48, 1080-1087.	1.4	17
137	Nanostructured Aluminium - Recovery and Recrystallization. Materials Science Forum, 2007, 558-559, 201-206.	0.3	3
138	Structural Change during Cold Rolling of Electrodeposited Copper. Materials Science Forum, 2007, 539-543, 5013-5018.	0.3	7
139	Through-Thickness Characterization of Microstructure and Texture in High Purity Aluminum Processed to High Strain by Accumulative Roll-Bonding. Materials Transactions, 2007, 48, 1978-1985.	1.2	38
140	Dislocation structures. Part II. Slip system dependence. Philosophical Magazine, 2007, 87, 5215-5235.	1.6	115
141	Dislocation structures. Part I. Grain orientation dependence. Philosophical Magazine, 2007, 87, 5189-5214.	1.6	193
142	Revealing deformation microstructures. Materials Today, 2007, 10, 24-32.	14.2	41
143	Investigation of the deformation structure in an aluminium magnesium alloy by high angular resolution three-dimensional X-ray diffraction. Scripta Materialia, 2007, 56, 769-772.	5.2	18
144	Characterization of nanostructured metals produced by plastic deformation. Journal of Materials Science, 2007, 42, 1577-1583.	3.7	15

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145	Grain orientation and dislocation patterns. Philosophical Magazine, 2006, 86, 3981-3994.	1.6	50
146	Hardening by Annealing and Softening by Deformation in Nanostructured Metals. Science, 2006, 312, 249-251.	12.6	632
147	Quantification of annealed microstructures in ARB processed aluminum. Acta Materialia, 2006, 54, 3055-3066.	7.9	140
148	The morphology and crystallography of lath martensite in alloy steels. Acta Materialia, 2006, 54, 5323-5331.	7.9	660
149	Effect of block size on the strength of lath martensite in low carbon steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 237-240.	5.6	514
150	Recovery of heavily cold-rolled aluminum: Effect of local texture. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 1311-1322.	2.2	50
151	Large Strain Deformation and Annealing of Aluminium. Materials Science Forum, 2006, 519-521, 79-84.	0.3	8
152	EBSD and TEM Characterization of Ultrafine Grained High Purity Aluminum Produced by Accumulative Roll-Bonding. Materials Science Forum, 2006, 512, 91-96.	0.3	9
153	Nucleation of recrystallization observed in situ in the bulk of a deformed metal. Scripta Materialia, 2005, 53, 553-557.	5.2	28
154	Extended dislocation boundaries in metals subjected to plane strain deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 409, 52-58.	5.6	5
155	Effect of grain orientation on microstructures of aluminium in warm tension. Materials Science and Technology, 2005, 21, 1471-1475.	1.6	3
156	Precise determination of extended dislocation boundary plane in transmission electron microscopy. Materials Science and Technology, 2005, 21, 1379-1382.	1.6	5
157	Structural Refinement of Interstitial Free (IF) Steel by Deformation and Phase Transformation. Materials Science Forum, 2005, 475-479, 37-42.	0.3	2
158	Structural Refinement and Coarsening in Deformed Metals. Solid State Phenomena, 2005, 101-102, 279-286.	0.3	0
159	Microstructural Coarsening during Annealing of Cold Rolled Aluminum. Materials Science Forum, 2004, 467-470, 209-216.	0.3	2
160	In-Situ Measurements of Growth of Nuclei within the Bulk of Deformed Aluminium Single Crystals. Materials Science Forum, 2004, 467-470, 189-192.	0.3	3
161	Watching the Growth of Bulk Grains During Recrystallization of Deformed Metals. Science, 2004, 305, 229-232.	12.6	234
162	Structure and strength after large strain deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 191-194.	5.6	92

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163	Flow stress and microstructures of fine grained copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 186-190.	5.6	29
164	Critical comparison of dislocation boundary alignment studied by TEM and EBSD: technical issues and theoretical consequences. Acta Materialia, 2004, 52, 4437-4446.	7.9	77
165	Grain orientation dependence of microstructures in a warm rolled IF steel. Acta Materialia, 2004, 52, 5405-5418.	7.9	31
166	Enhanced ductility in coarse grained Fe3Al alloys. Intermetallics, 2004, 12, 1019-1023.	3.9	2
167	Boundary characteristics in Heavily Deformed Metals. Advanced Engineering Materials, 2003, 5, 317-322.	3.5	4
168	Microstructural evolution during accumulative roll-bonding of commercial purity aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 340, 265-271.	5.6	257
169	Crystal orientations before and after annealing in an Al single crystal strained in tension. Acta Materialia, 2003, 51, 1827-1839.	7.9	30
170	Deformation bands in a [110] aluminium single crystal strained in tension. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 85-108.	2.1	36
171	Microstructures of Nickel Deformed by High Pressure Torsion to High Strains. Materials Science Forum, 2003, 426-432, 2819-2824.	0.3	19
172	Extended planar boundary inclinations in fcc single crystals and polycrystals subjected to plane strain deformation. Philosophical Magazine, 2003, 83, 969-983.	1.6	22
173	Quantitative Analysis of Structure-Strength Relation of Commercial Purity Aluminium Deformed by Accumulative Roll Bonding and Annealed at Low Temperature. Materials Science Forum, 2003, 426-432, 405-410.	0.3	20
174	Microtexture of Lamellar Structures in Al Heavily Deformed by Accumulative Roll-Bonding (ARB). Materials Science Forum, 2002, 408-412, 715-720.	0.3	9
175	Determination of Σ3 Boundary Planes in Bulk Copper Samples with Different Textures. Materials Science Forum, 2002, 408-412, 493-498.	0.3	1
176	Microstructure and strength of commercial purity aluminium (AA 1200) cold-rolled to large strains. Acta Materialia, 2002, 50, 3789-3802.	7.9	286
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