Nobuhiro Tsuji

List of Publications by Year
in descending order

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455	24,669	8159	8835
papers	citations	76	145
		h-index	g-index

482	482	482	7820
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel ultra-high straining process for bulk materialsâ€”development of the accumulative roll-bonding (ARB) process. Acta Materialia, 1999, 47, 579-583.	3.8	1,955
2	Ultra-fine grained bulk aluminum produced by accumulative roll-bonding (ARB) process. Scripta Materialia, 1998, 39, 1221-1227.	2.6	1,131
3	Strength and ductility of ultrafine grained aluminum and iron produced by ARB and annealing. Scripta Materialia, 2002, 47, 893-899.	2.6	1,071
4	Severe plastic deformation (SPD) processes for metals. CIRP Annals - Manufacturing Technology, 2008, 57, 716-735.	1.7	830
5	Crystallographic features of lath martensite in low-carbon steel. Acta Materialia, 2006, 54, 1279-1288.	3.8	781
6	Hardening by Annealing and Softening by Deformation in Nanostructured Metals. Science, 2006, 312, 249-251.	6.0	632
7	ARB (Accumulative Roll-Bonding) and other new Techniques to Produce Bulk Ultrafine Grained Materials. Advanced Engineering Materials, 2003, 5, 338-344.	1.6	591
8	Ultra-fine grained bulk steel produced by accumulative roll-bonding (ARB) process. Scripta Materialia, 1999, 40, 795-800.	2.6	535
9	Strengthening mechanisms in nanostructured high-purity aluminium deformed to high strain and annealed. Acta Materialia, 2009, 57, 4198-4208.	3.8	523
10	Heterostructured materials: superior properties from hetero-zone interaction. Materials Research Letters, 2021, 9, 1-31.	4.1	505
11	Tensile properties and twinning behavior of high manganese austenitic steel with fine-grained structure. Scripta Materialia, 2008, 59, 963-966.	2.6	377
12	Friction stir welding of carbon steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 50-57.	2.6	370
13	Friction stress and Hall-Petch relationship in CoCrNi equi-atomic medium entropy alloy processed by severe plastic deformation and subsequent annealing. Scripta Materialia, 2017, 134, 33-36.	2.6	336
14	Ultragrain refinement of plain low carbon steel by cold-rolling and annealing of martensite. Acta Materialia, 2002, 50, 4177-4189.	3.8	322
15	Ultrafine-Grained AlCoCrFeNi_{2.1}Eutectic High-Entropy Alloy. Materials Research Letters, 2016, 4, 174-179.	4.1	296
16	Role of shear strain in ultragrain refinement by accumulative roll-bonding (ARB) process. Scripta Materialia, 2002, 46, 281-285.	2.6	294
17	Microstructural evolution during accumulative roll-bonding of commercial purity aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 340, 265-271.	2.6	257
18	Friction stir welding of a high carbon steel. Scripta Materialia, 2007, 56, 637-640.	2.6	255

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19	Tailoring nanostructures and mechanical properties of AlCoCrFeNi2.1 eutectic high entropy alloy using thermo-mechanical processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 675, 99-109.	2.6	252
20	A new and simple process to obtain nano-structured bulk low-carbon steel with superior mechanical property. Scripta Materialia, 2002, 46, 305-310.	2.6	237
21	Effect of redundant shear strain on microstructure and texture evolution during accumulative roll-bonding in ultralow carbon IF steel. Acta Materialia, 2007, 55, 5873-5888.	3.8	236
22	Bulk mechanical alloying of Cuâ€“Ag and Cu/Zr two-phase microstructures by accumulative roll-bonding process. Acta Materialia, 2007, 55, 2885-2895.	3.8	229
23	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. Materials Research Letters, 2022, 10, 163-256.	4.1	215
24	Simultaneous Strength-Ductility Enhancement of a Nano-Lamellar AlCoCrFeNi2.1 Eutectic High Entropy Alloy by Cryo-Rolling and Annealing. Scientific Reports, 2018, 8, 3276.	1.6	209
25	Effect of elemental combination on friction stress and Hall-Petch relationship in face-centered cubic high / medium entropy alloys. Acta Materialia, 2019, 171, 201-215.	3.8	173
26	Microstructure and mechanical properties of commercial purity titanium severely deformed by ARB process. Journal of Materials Science, 2007, 42, 1673-1681.	1.7	171
27	Yield strength and misfit volumes of NiCoCr and implications for short-range-order. Nature Communications, 2020, 11, 2507.	5.8	162
28	Crystallographic analysis of plate martensite in Feâ€“28.5 at.% Ni by FE-SEM/EBSD. Materials Characterization, 2005, 54, 378-386.	1.9	146
29	Ultrafine grained copper alloy sheets having both high strength and high electric conductivity. Materials Letters, 2009, 63, 1757-1760.	1.3	146
30	Transition of dominant deformation mode in bulk polycrystalline pure Mg by ultra-grain refinement down to sub-micrometer. Acta Materialia, 2020, 198, 35-46.	3.8	143
31	Effect of strain rate on hydrogen embrittlement in low-carbon martensitic steel. International Journal of Hydrogen Energy, 2017, 42, 3371-3379.	3.8	142
32	Nanoscale crystallographic analysis of ultrafine grained IF steel fabricated by ARB process. Scripta Materialia, 2002, 47, 69-76.	2.6	141
33	Quantification of annealed microstructures in ARB processed aluminum. Acta Materialia, 2006, 54, 3055-3066.	3.8	140
34	Toughness of Ultrafine Grained Ferritic Steels Fabricated by ARB and Annealing Process. Materials Transactions, 2004, 45, 2272-2281.	0.4	139
35	Elongation increase in ultra-fine grained Alâ€“Feâ€“Si alloy sheets. Acta Materialia, 2005, 53, 1737-1749.	3.8	137
36	Analysis of the mechanical properties and deformation behavior of nanostructured commercially pure Al processed by equal channel angular pressing (ECAP). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 473, 189-194.	2.6	135

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37	Microstructure homogeneity in various metallic materials heavily deformed by accumulative roll-bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 423, 331-342.	2.6	128
38	Unique deformation behavior and microstructure evolution in high temperature processing of HfNbTaTiZr refractory high entropy alloy. Acta Materialia, 2019, 171, 132-145.	3.8	128
39	Significant contribution of stacking faults to the strain hardening behavior of Cu-15%Al alloy with different grain sizes. Scientific Reports, 2015, 5, 16707.	1.6	127
40	Managing Both Strength and Ductility in Ultrafine Grained Steels. ISIJ International, 2008, 48, 1114-1121.	0.6	126
41	Friction stir welding of high carbon steel with excellent toughness and ductility. Scripta Materialia, 2010, 63, 223-226.	2.6	123
42	Enhanced structural refinement by combining phase transformation and plastic deformation in steels. Scripta Materialia, 2009, 60, 1044-1049.	2.6	122
43	Remarkable transitions of yield behavior and LÃ¼ders deformation in pure Cu by changing grain sizes. Scripta Materialia, 2018, 142, 88-91.	2.6	121
44	Hot deformation behavior of CoCrFeMnNi FCC high entropy alloy. Materials Chemistry and Physics, 2018, 210, 176-186.	2.0	119
45	Simultaneously enhanced strength and ductility of Mg-Zn-Zr-Ca alloy with fully recrystallized ultrafine grained structures. Scripta Materialia, 2017, 131, 1-5.	2.6	118
46	Yielding nature and Hall-Petch relationships in Ti-6Al-4V alloy with fully equiaxed and bimodal microstructures. Scripta Materialia, 2019, 172, 77-82.	2.6	117
47	Dynamic recrystallization of ferrite in interstitial free steel. Scripta Materialia, 1997, 37, 477-484.	2.6	115
48	Friction stir welding of ultrafine grained Al alloy 1100 produced by accumulative roll-bonding. Scripta Materialia, 2004, 50, 57-60.	2.6	113
49	General Mechanism for the Synchronization of Electrochemical Oscillations and Self-Organized Dendrite Electrodeposition of Metals with Ordered 2D and 3D Microstructures. Journal of Physical Chemistry C, 2007, 111, 1150-1160.	1.5	112
50	Fully recrystallized nanostructure fabricated without severe plastic deformation in high-Mn austenitic steel. Scripta Materialia, 2013, 68, 813-816.	2.6	112
51	Revealing the deformation mechanisms of Cuâ€“Al alloys with high strength and good ductility. Acta Materialia, 2016, 110, 61-72.	3.8	111
52	Effect of aluminum addition on solid solution strengthening in CoCrNi medium-entropy alloy. Journal of Alloys and Compounds, 2019, 781, 866-872.	2.8	111
53	Superplasticity of Ultra-Fine Grained Al–Mg Alloy Produced by Accumulative Roll-Bonding. Materials Transactions, JIM, 1999, 40, 765-771.	0.9	109
54	Effect of grain refinement on hydrogen embrittlement behaviors of high-Mn TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 935-944.	2.6	107

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55	Formation of nanocrystalline surface layers in various metallic materials by near surface severe plastic deformation. Science and Technology of Advanced Materials, 2004, 5, 145-152.	2.8	105
56	Unique high-temperature deformation dominated by grain boundary sliding in heterogeneous necklace structure formed by dynamic recrystallization in HfNbTaTiZr BCC refractory high entropy alloy. Acta Materialia, 2020, 183, 64-77.	3.8	104
57	Cold-rolling and recrystallization textures of a nano-lamellar AlCoCrFeNi2.1 eutectic high entropy alloy. Intermetallics, 2017, 84, 42-51.	1.8	102
58	Effect of rolling reduction on ultrafine grained structure and mechanical properties of low-carbon steel thermomechanically processed from martensite starting structure. Science and Technology of Advanced Materials, 2004, 5, 153-162.	2.8	100
59	Mechanism of huge LÃ¼ders-type deformation in ultrafine grained austenitic stainless steel. Scripta Materialia, 2019, 159, 28-32.	2.6	100
60	Recrystallization Behavior of CoCrCuFeNi High-Entropy Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1481-1487.	1.1	99
61	Effect of low temperature on tensile properties of AlCoCrFeNi2.1 eutectic high entropy alloy. Materials Chemistry and Physics, 2018, 210, 207-212.	2.0	98
62	Plastic deformation and creep damage evaluations of type 316 austenitic stainless steels by EBSD. Materials Characterization, 2010, 61, 913-922.	1.9	95
63	Microstructure and texture through thickness of ultralow carbon IF steel sheet severely deformed by accumulative roll-bonding. Science and Technology of Advanced Materials, 2004, 5, 163-172.	2.8	94
64	A new route to fabricate ultrafine-grained structures in carbon steels without severe plastic deformation. Scripta Materialia, 2009, 60, 76-79.	2.6	94
65	Change in electrical resistivity of commercial purity aluminium severely plastic deformed. Philosophical Magazine, 2010, 90, 4475-4488.	0.7	94
66	Microstructural change of ultrafine-grained aluminum during high-speed plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 350, 108-116.	2.6	93
67	Structure and strength after large strain deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 191-194.	2.6	92
68	Transformation in Stir Zone of Friction Stir Welded Carbon Steels with Different Carbon Contents. ISIJ International, 2007, 47, 299-306.	0.6	90
69	Plastic flow, structure and mechanical properties in pure Al deformed by twist extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 519, 105-111.	2.6	90
70	Friction Stir Welding of Ultrafine Grained Interstitial Free Steels. Materials Transactions, 2006, 47, 239-242.	0.4	87
71	Microstructural and Crystallographic Features of Hydrogen-related Crack Propagation in Low Carbon Martensitic Steel. ISIJ International, 2012, 52, 208-212.	0.6	85
72	A novel ultrafine-grained Fe 22Mn 0.6C TWIP steel with superior strength and ductility. Materials Characterization, 2017, 126, 74-80.	1.9	83

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73	The phase stability of equiatomic CoCrFeMnNi high-entropy alloy: Comparison between experiment and calculation results. Journal of Alloys and Compounds, 2017, 719, 189-193.	2.8	83
74	Processing of nanostructured metals and alloys via plastic deformation. MRS Bulletin, 2010, 35, 977-981.	1.7	82
75	Cold rolling and recrystallization textures of a Niâ€“5 at.% W alloy. Acta Materialia, 2009, 57, 2166-2179.	3.8	81
76	Microstructure quantification and correlation with flow stress of ultrafine grained commercially pure Al fabricated by equal channel angular pressing (ECAP). Materials Characterization, 2008, 59, 1312-1323.	1.9	78
77	Mechanical properties of fully martensite microstructure in Ti-6Al-4V alloy transformed from refined beta grains obtained by rapid heat treatment (RHT). Scripta Materialia, 2017, 138, 66-70.	2.6	77
78	Ultrafine Grained Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2002, 88, 359-369.	0.1	76
79	Quantification of internal dislocation density using scanning transmission electron microscopy in ultrafine grained pure aluminium fabricated by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 776-779.	2.6	76
80	Synergistic effect by Al addition in improving mechanical performance of CoCrNi medium-entropy alloy. Journal of Alloys and Compounds, 2019, 800, 372-378.	2.8	76
81	Role of strain reversal in grain refinement by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 427-433.	2.6	70
82	Factors determining room temperature mechanical properties of bimodal microstructures in Ti-6Al-4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 217-222.	2.6	70
83	Characterization of Hydrogen-Related Fracture Behavior in As-Quenched Low-Carbon Martensitic Steel and Tempered Medium-Carbon Martensitic Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5685-5696.	1.1	69
84	Mechanical response of dislocation interaction with grain boundary in ultrafine-grained interstitial-free steel. Acta Materialia, 2021, 206, 116621.	3.8	68
85	Deformation textures of AA8011 aluminum alloy sheets severely deformed by accumulative roll bonding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 3151-3163.	1.1	67
86	Texture evolution in pure aluminum subjected to monotonous and reversal straining in high-pressure torsion. Scripta Materialia, 2009, 60, 893-896.	2.6	67
87	Nanostructuring with Structural-Compositional Dual Heterogeneities Enhances Strength-Ductility Synergy in Eutectic High Entropy Alloy. Scientific Reports, 2019, 9, 11505.	1.6	67
88	Engineering heterogeneous microstructure by severe warm-rolling for enhancing strength-ductility synergy in eutectic high entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 764, 138226.	2.6	67
89	Microstructures and mechanical properties of bulk nanocrystalline Feâ€“Alâ€“C alloys made by mechanically alloying with subsequent spark plasma sintering. Science and Technology of Advanced Materials, 2004, 5, 133-143.	2.8	66
90	Effect of SiC particles on the microstructure evolution and mechanical properties of aluminum during ARB process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 540, 13-23.	2.6	63

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91	Yielding Behavior and Its Effect on Uniform Elongation of Fine Grained IF Steel. Materials Transactions, 2014, 55, 73-77.	0.4	63
92	Two-stage Hall-Petch relationship in Cu with recrystallized structure. Journal of Materials Science and Technology, 2020, 48, 31-35.	5.6	62
93	Anodic oxide nanotube layers on Tiâ€“Ta alloys: Substrate composition, microstructure and self-organization on two-size scales. Corrosion Science, 2009, 51, 1528-1533.	3.0	61
94	Increasing the ductility of ultrafine-grained copper alloy by introducing fine precipitates. Scripta Materialia, 2009, 60, 590-593.	2.6	60
95	Change in microstructures and mechanical properties during deep wire drawing of copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5699-5707.	2.6	60
96	Flow stress analysis for determining the critical condition of dynamic ferrite transformation in 6Niâ€“0.1C steel. Acta Materialia, 2013, 61, 163-173.	3.8	59
97	Effect of initial dislocation density on hydrogen accumulation behavior in martensitic steel. Scripta Materialia, 2020, 178, 318-323.	2.6	59
98	Bi-lamellar microstructure in Tiâ€“6Alâ€“4V: Microstructure evolution and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 762, 138077.	2.6	58
99	Aging behavior of ultrafine grained Alâ€“2 wt%Cu alloy severely deformed by accumulative roll bonding. Science and Technology of Advanced Materials, 2004, 5, 173-180.	2.8	57
100	Effect of initial grain size on the joint properties of friction stir welded aluminum. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 527, 317-321.	2.6	57
101	Deformation behavior of as-cast and as-extruded Mg97Zn1Y2 alloys during compression, as tracked by in situ neutron diffraction. International Journal of Plasticity, 2018, 111, 288-306.	4.1	57
102	Evaluation of Dislocation Density for 1100 Aluminum with Different Grain Size during Tensile Deformation by Using <i>In-Situ</i> X-ray Diffraction Technique. Materials Transactions, 2015, 56, 671-678.	0.4	55
103	Strategy for managing both high strength and large ductility in structural materialsâ€“sequential nucleation of different deformation modes based on a concept of plaston. Scripta Materialia, 2020, 181, 35-42.	2.6	55
104	Microstructural and crystallographic features of hydrogen-related fracture in lath martensitic steels. Materials Science and Technology, 2017, 33, 1524-1532.	0.8	54
105	Change in Mechanical Properties and Microstructure of ARB Processed Ti during Annealing. Materials Transactions, 2008, 49, 41-46.	0.4	52
106	Change in Microstructure and Mechanical Properties of Ultra-Fine Grained Aluminum during Annealing. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2000, 64, 429-437.	0.2	51
107	Yielding behavior and its effect on uniform elongation in IF steel with various grain sizes. Journal of Materials Science, 2014, 49, 6536-6542.	1.7	51
108	Effect of Initial Orientation on the Recrystallization Behavior of Solidified Columnar Crystals in a 19% Cr Ferritic Stainless Steel.. ISIJ International, 1993, 33, 783-792.	0.6	50

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109	Microstructure Evolution in Pure Al Processed with Twist Extrusion. Materials Transactions, 2009, 50, 96-100.	0.4	49
110	Effect of Initial Orientation on the Cold Rolling Behavior of Solidified Columnar Crystals in a 19%Cr Ferritic Stainles Steel.. ISIJ International, 1992, 32, 1319-1328.	0.6	48
111	Post-uniform elongation and tensile fracture mechanisms of Fe-18Mn-0.6C-xAl twinning-induced plasticity steels. Acta Materialia, 2017, 131, 435-444.	3.8	48
112	Formability of ultrafine-grained interstitial-free steel fabricated by accumulative roll-bonding and subsequent annealing. Scripta Materialia, 2011, 65, 175-178.	2.6	46
113	Change of Deformation Mechanisms Leading to High Strength and Large Ductility in Mg-Zn-Zr-Ca Alloy with Fully Recrystallized Ultrafine Grained Microstructures. Scientific Reports, 2019, 9, 11702.	1.6	46
114	Occurrence of Dynamic Recrystallization in Ferritic Iron. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 967-976.	0.2	45
115	Cu/Zr nanoscaled multi-stacks fabricated by accumulative roll bonding. Journal of Alloys and Compounds, 2010, 504, S443-S447.	2.8	44
116	Combination of dynamic transformation and dynamic recrystallization for realizing ultrafine-grained steels with superior mechanical properties. Scientific Reports, 2016, 6, 39127.	1.6	42
117	On the strain hardening abilities of Î±+Î² titanium alloys: The roles of strain partitioning and interface length density. Journal of Alloys and Compounds, 2019, 811, 152040.	2.8	42
118	Effects of local stress, strain, and hydrogen content on hydrogen-related fracture behavior in low-carbon martensitic steel. Acta Materialia, 2021, 210, 116828.	3.8	42
119	Achieving excellent mechanical properties in type 316 stainless steel by tailoring grain size in homogeneously recovered or recrystallized nanostructures. Acta Materialia, 2022, 226, 117629.	3.8	41
120	Effects of Rolling Reduction and Annealing Temperature on the Recrystallization Structure of Solidified Columnar Crystals in a 19% Cr Ferritic Stainless Steel.. ISIJ International, 1994, 34, 1008-1017.	0.6	40
121	Enhanced Strength and Ductility in an Ultrafine-Grained Fe-22Mn-0.6C Austenitic Steel Having Fully Recrystallized Structure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5300-5304.	1.1	40
122	Deformation mechanism of bimodal microstructure in Ti-6Al-4V alloy: The effects of intercritical annealing temperature and constituent hardness. Journal of Materials Science and Technology, 2021, 71, 138-151.	5.6	40
123	Novel thermomechanical processing methods for achieving ultragrain refinement of low-carbon steel without heavy plastic deformation. Materials Research Letters, 2017, 5, 61-68.	4.1	39
124	Effect of Boron Addition on the Microstructure of Hot-deformed Ti-added Interstitial Free Steel.. ISIJ International, 1997, 37, 797-806.	0.6	38
125	Low Temperature Superplasticity of Ultra-Fine Grained 5083 Aluminium Alloy Produced by Accumulative Roll-Bonding. Materials Science Forum, 1999, 304-306, 73-78.	0.3	38
126	Martensite transformation from ultrafine grained austenite in Feâ€“28.5at.% Ni. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 233-236.	2.6	38

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127	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.	0.4	38
128	Temperature and Strain Rate Dependence of Flow Stress in Severely Deformed Copper by Accumulative Roll Bonding. Materials Transactions, 2009, 50, 64-69.	0.4	38
129	Change in Microstructure and Texture during Annealing of Pure Copper Heavily Deformed by Accumulative Roll Bonding. Materials Transactions, 2007, 48, 2043-2048.	0.4	37
130	Metallurgical aspects on the formation of self-organized anodic oxide nanotube layers. Electrochimica Acta, 2009, 54, 5155-5162.	2.6	37
131	Microstructural Evolution during ARB Process of Al–0.2 mass% Sc Alloy Containing Al₃Sc Precipitates in Starting Structures. Materials Transactions, 2012, 53, 72-80.	0.4	37
132	Ultrafine grained structure and improved mechanical properties of low temperature friction stir spot welded 6061-T6 Al alloys. Materials Characterization, 2018, 135, 124-133.	1.9	36
133	Crystallographic feature of hydrogen-related fracture in 2Mn-0.1C ferritic steel. International Journal of Hydrogen Energy, 2018, 43, 11298-11306.	3.8	36
134	Achieving bi-lamellar microstructure with both high tensile strength and large ductility in Tiâ€“6Alâ€“4V alloy by novel thermomechanical processing. Materialia, 2019, 8, 100479.	1.3	36
135	Effect of high pressure torsion process on the microhardness, microstructure and tribological property of Ti6Al4V alloy. Journal of Materials Science and Technology, 2021, 94, 183-195.	5.6	36
136	Mechanical properties of ultrafine grained ferritic steel sheets fabricated by rolling and annealing of duplex microstructure. Journal of Materials Science, 2008, 43, 7391-7396.	1.7	34
137	Formation Mechanism of Ultrafine Grained Microstructures: Various Possibilities for Fabricating Bulk Nanostructured Metals and Alloys. Materials Transactions, 2019, 60, 1518-1532.	0.4	34
138	Nature of dynamic ferrite transformation revealed by in-situ neutron diffraction analysis during thermomechanical processing. Scripta Materialia, 2019, 165, 44-49.	2.6	34
139	Quantification of strain in accumulative roll-bonding under unlubricated condition by finite element analysis. Computational Materials Science, 2009, 46, 261-266.	1.4	33
140	Strengthening of Sheath-Rolled Aluminum Based MMC by the ARB Process. Materials Transactions, JIM, 1999, 40, 1422-1428.	0.9	32
141	Fabrication of CuZr(Al) bulk metallic glasses by high pressure torsion. Intermetallics, 2009, 17, 256-261.	1.8	32
142	Synthesis of non-equilibrium phases in immiscible metals mechanically mixed by high pressure torsion. Journal of Materials Science, 2011, 46, 4296-4301.	1.7	32
143	Influence of Tempering on Mechanical Properties of Ferrite and Martensite Dual Phase Steel. Materials Today: Proceedings, 2015, 2, S667-S671.	0.9	32
144	Fracture surface topography analysis of the hydrogen-related fracture propagation process in martensitic steel. International Journal of Fracture, 2017, 205, 73-82.	1.1	32

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145	Mechanical and microstructural analysis on hydrogen-related fracture in a martensitic steel. International Journal of Hydrogen Energy, 2019, 44, 29034-29046.	3.8	32
146	High damping capacity of ultra-fine grained aluminum produced by accumulative roll bonding. Journal of Alloys and Compounds, 2003, 355, 47-51.	2.8	31
147	Occurrence of dynamic ferrite transformation in low-carbon steel above Ae3. Scripta Materialia, 2013, 68, 538-541.	2.6	30
148	Influence of Fe addition in CP titanium on phase transformation, microstructure and mechanical properties during high pressure torsion. Journal of Alloys and Compounds, 2020, 822, 153604.	2.8	30
149	Enhanced mechanical properties in Î²-Ti alloy aged from recrystallized ultrafine Î² grains. Materials and Design, 2020, 195, 109017.	3.3	30
150	Formation of bimodal grain structures in high purity Al by reversal high pressure torsion. Scripta Materialia, 2011, 64, 498-501.	2.6	29
151	Critical strain for mechanical alloying of Cuâ€“Ag, Cuâ€“Ni and Cuâ€“Zr by high-pressure torsion. Scripta Materialia, 2011, 65, 489-492.	2.6	29
152	Microstructure and Crystallographic Features of Martensite Transformed from Ultrafine-Grained Austenite in Fe–24Ni–0.3C Alloy. Materials Transactions, 2012, 53, 81-86.	0.4	29
153	Thermomechanical Processing of Steel â€“Past, Present and Futureâ€“. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 1062-1075.	0.1	29
154	Grain size altering yielding mechanisms in ultrafine grained high-Mn austenitic steel: Advanced TEM investigations. Journal of Materials Science and Technology, 2021, 86, 192-203.	5.6	29
155	Unique Mechanical Properties of Nanostructured Metals. Journal of Nanoscience and Nanotechnology, 2007, 7, 3765-3770.	0.9	28
156	Correlation between Continuous/Discontinuous Yielding and Hall–Petch Slope in High Purity Iron. Materials Transactions, 2014, 55, 69-72.	0.4	28
157	Grain Boundary Structure of Ultrafine Grained Pure Copper Fabricated by Accumulative Roll Bonding. Materials Transactions, 2008, 49, 24-30.	0.4	27
158	Dynamic deformation behavior of ultrafine-grained iron produced by ultrahigh strain deformation and annealing. Scripta Materialia, 2011, 64, 896-899.	2.6	27
159	Variant selection of martensite transformation from ultrafine-grained austenite in Feâ€“Niâ€“C alloy. Journal of Alloys and Compounds, 2013, 577, S668-S672.	2.8	27
160	Optimizing strength and ductility in Cuâ€“Al alloy with recrystallized nanostructures formed by simple cold rolling and annealing. Journal of Materials Science, 2014, 49, 6629-6639.	1.7	27
161	SEM/EBSD Analysis on Globularization Behavior of Lamellar Microstructure in Ti-6Al-4V During Hot Deformation and Annealing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4237-4246.	1.1	27
162	Effect of severe cold-rolling and annealing on microstructure and mechanical properties of AlCoCrFeNi_{2.1} eutectic high entropy alloy. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012018.	0.3	27

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163	Strengthâ€“ductility balance in an ultrafine-grained non-equiatomic Fe50(CoCrMnNi)50 medium-entropy alloy with a fully recrystallized microstructure. Journal of Alloys and Compounds, 2019, 780, 959-966.	2.8	27
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