Andrey Belyakov

List of Publications by Year in descending order

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241	7,751	57719	58549
papers	citations	44 h-index	82 g-index

247	247	247	3613
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic and post-dynamic recrystallization under hot, cold and severe plastic deformation conditions. Progress in Materials Science, 2014, 60, 130-207.	16.0	1,915
2	Grain refinement in copper under large strain deformation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 2629-2643.	0.7	246
3	Effect of initial microstructures on grain refinement in a stainless steel by large strain deformation. Acta Materialia, 2003, 51, 847-861.	3.8	211
4	Dynamic recrystallization under warm deformation of a 304 type austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 255, 139-147.	2.6	205
5	Continuous recrystallization in austenitic stainless steel after large strain deformation. Acta Materialia, 2002, 50, 1547-1557.	3.8	178
6	Dynamic recrystallization mechanisms operating in a Niâ€“20%Cr alloy under hot-to-warm working. Acta Materialia, 2010, 58, 3624-3632.	3.8	160
7	Effect of large strain cold rolling and subsequent annealing on microstructure and mechanical properties of an austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 545, 176-186.	2.6	157
8	Deformation microstructures, strengthening mechanisms, and electrical conductivity in a Cuâ€“Crâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 629, 29-40.	2.6	146
9	Microstructural evolution of a 304-type austenitic stainless steel during rolling at temperatures of 773â€“1273 K. Acta Materialia, 2015, 82, 244-254.	3.8	139
10	Strain-induced grain evolution in polycrystalline copper during warm deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2957-2965.	1.1	123
11	Ultrafine Grain Formation in Ferritic Stainless Steel during Severe Plastic Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2206-2214.	1.1	113
12	Microstructure evolution and strengthening mechanisms of Feâ€“23Mnâ€“0.3Câ€“1.5Al TWIP steel during cold rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 617, 52-60.	2.6	112
13	Structural changes of tempered martensitic 9%Crâ€“2%Wâ€“3%Co steel during creep at 650Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 632-639.	2.6	106
14	Microstructure evolution in dual-phase stainless steel during severe deformation. Acta Materialia, 2006, 54, 2521-2532.	3.8	105
15	Wear resistance and electroconductivity in copper processed by severe plastic deformation. Wear, 2013, 305, 89-99.	1.5	100
16	Hall-Petch relationship for austenitic stainless steels processed by large strain warm rolling. Acta Materialia, 2017, 136, 39-48.	3.8	92
17	Ultrafine grain development in copper during multidirectional forging at 195â€‰K. Philosophical Magazine Letters, 2007, 87, 751-766.	0.5	89
18	Grain Refinement under Multiple Warm Deformation in 304 Type Austenitic Stainless Steel.. ISIJ International, 1999, 39, 592-599.	0.6	87

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19	Fine-Grained Structure Formation in Austenitic Stainless Steel under Multiple Deformation at 0.5<I>T</I>_m. Materials Transactions, JIM, 2000, 41, 476-484.	0.9	86
20	Microstructure Evolution and Pinning of Boundaries by Precipitates in a 9Âpct Cr Heat Resistant Steel During Creep. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 162-172.	1.1	86
21	Laves-phase precipitates in a low-carbon 9% Cr martensitic steel during aging and creep at 923 K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 153-163.	2.6	86
22	Grain refinement kinetics and strengthening mechanisms in Cuâ€“0.3Crâ€“0.5Zr alloy subjected to intense plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 131-142.	2.6	81
23	Dynamic recrystallization of copper polycrystals with different purities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 265, 233-239.	2.6	80
24	Substructures and internal stresses developed under warm severe deformation of austenitic stainless steel. Scripta Materialia, 2000, 42, 319-325.	2.6	76
25	Laves phase evolution in a modified P911 heat resistant steel during creep at 923 K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 71-77.	2.6	76
26	Effect of cold rolling on recrystallization and tensile behavior of a high-Mn steel. Materials Characterization, 2016, 112, 180-187.	1.9	71
27	Strain-induced grain evolution in an austenitic stainless steel under warm multiple forging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 564, 413-422.	2.6	65
28	Development of Nanocrystalline 304L Stainless Steel by Large Strain Cold Working. Metals, 2015, 5, 656-668.	1.0	65
29	Dynamic recrystallization in ultra fine-grained 304 stainless steel. Scripta Materialia, 2000, 43, 21-26.	2.6	64
30	Structural strengthening of an austenitic stainless steel subjected to warm-to-hot working. Materials Characterization, 2011, 62, 432-437.	1.9	63
31	Grain refinement in a Cuâ€“Crâ€“Zr alloy during multidirectional forging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 380-389.	2.6	62
32	Tempering behavior of a low nitrogen boron-added 9%Cr steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 443-455.	2.6	62
33	Annealing behavior of a 304L stainless steel processed by large strain cold and warm rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 370-383.	2.6	62
34	Effect of chromium and zirconium content on structure, strength and electrical conductivity of Cu-Cr-Zr alloys after high pressure torsion. Materials Letters, 2017, 199, 46-49.	1.3	62
35	Microstructure evolution in a 3%Co modified P911 heat resistant steel under tempering and creep conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1280-1286.	2.6	60
36	Deformation microstructures and tensile properties of an austenitic stainless steel subjected to multiple warm rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 279-285.	2.6	52

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37	Microstructure and Properties of Fine Grained Cu-Cr-Zr Alloys after Termo-Mechanical Treatments. Reviews on Advanced Materials Science, 2018, 54, 56-92.	1.4	52
38	New grain formation during warm deformation of ferritic stainless steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 161-167.	1.1	51
39	Strain-induced submicrocrystalline grains developed in austenitic stainless steel under severe warm deformation. Philosophical Magazine Letters, 2000, 80, 711-718.	0.5	50
40	Recovery and recrystallization in ferritic stainless steel after large strain deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 403, 249-259.	2.6	50
41	Strengthening of age-hardenable WE43 magnesium alloy processed by high pressure torsion. Materials Letters, 2016, 170, 5-9.	1.3	49
42	Microstructure Evolution in Ferritic Stainless Steels during Large Strain Deformation. Materials Transactions, 2004, 45, 2812-2821.	0.4	46
43	Effect of Severe Cold or Warm Deformation on Microstructure Evolution and Tensile Behavior of a 316L Stainless Steel. Advanced Engineering Materials, 2015, 17, 1812-1820.	1.6	46
44	Structural/textural changes and strengthening of an advanced high-Mn steel subjected to cold rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 763-773.	2.6	46
45	Microstructure and Mechanical Properties of Austenitic Stainless Steels after Dynamic and Postâ€Dynamic Recrystallization Treatment. Advanced Engineering Materials, 2018, 20, 1700960.	1.6	46
46	The crystallography of M₂₃C₆carbides in a martensitic 9% Cr steel after tempering, aging and creep. Philosophical Magazine, 2013, 93, 2259-2268.	0.7	44
47	Tempering-induced structural changes in steel 10Kh9K3V1M1FBR and their effect on the mechanical properties. Metal Science and Heat Treatment, 2010, 52, 100-110.	0.2	41
48	Changes in misorientations of grain boundaries in titanium during deformation. Materials Characterization, 2010, 61, 732-739.	1.9	41
49	On the effect of chemical composition on yield strength of TWIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 687, 82-84.	2.6	41
50	Effect of Co on Creep Behavior of a P911ÂSteel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 577-583.	1.1	40
51	Microstructure Evolution in an Advanced 9Âpct Cr Martensitic Steel during Creep at 923ÂK (650ÂÂ°C). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 128-135.	1.1	40
52	Recrystallization and Related Phenomena. Dynamic Recrystallization under Warm Deformation of Polycrystalline Copper.. ISIJ International, 1998, 38, 595-601.	0.6	39
53	Evolution of Lath Substructure and Internal Stresses in a 9% Cr Steel during Creep. ISIJ International, 2017, 57, 540-549.	0.6	35
54	Effect of dispersed particles on microstructure evolved in iron under mechanical milling followed by consolidating rolling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1769-1776.	1.1	34

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55	Comparative study on microstructure evolution upon unidirectional and multidirectional cold working in an Feâ€“15%Cr ferritic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 323-331.	2.6	32
56	Creep behavior and microstructural evolution of a 9%Cr steel with high B and low N contents. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 228-241.	2.6	32
57	Grain boundary assembles developed in an austenitic stainless steel during large strain warm working. Materials Characterization, 2012, 70, 14-20.	1.9	31
58	Grain refinement and strengthening of austenitic stainless steels during large strain cold rolling. Philosophical Magazine, 2019, 99, 531-556.	0.7	31
59	Microstructure and deformation behaviour of submicrocrystalline 304 stainless steel produced by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 867-871.	2.6	30
60	Hydrogen induced delayed fracture of ultrafine grained 0.6% O steel with dispersed oxide particles. Scripta Materialia, 2003, 49, 1111-1116.	2.6	30
61	On Strengthening of Austenitic Stainless Steel by Large Strain Cold Working. ISIJ International, 2016, 56, 1289-1296.	0.6	30
62	Annealing behavior of a ferritic stainless steel subjected to large-strain cold working. Journal of Materials Research, 2007, 22, 3042-3051.	1.2	28
63	Tensile behaviour of submicrocrystalline ferritic steel processed by large-strain deformation. Philosophical Magazine Letters, 2009, 89, 201-212.	0.5	28
64	Structure and Mechanical and Corrosion Properties of a Magnesium Mgâ€“Yâ€“Ndâ€“Zr Alloy after High Pressure Torsion. Russian Metallurgy (Metally), 2017, 2017, 912-921.	0.1	27
65	Î£3 CSL boundary distributions in an austenitic stainless steel subjected to multidirectional forging followed by annealing. Philosophical Magazine, 2014, 94, 4181-4196.	0.7	26
66	Development of Î£3 n CSL boundaries in austenitic stainless steels subjected to large strain deformation and annealing. Journal of Materials Science, 2017, 52, 4210-4223.	1.7	25
67	Structural changes in metastable austenitic steel during equal channel angular pressing and subsequent cyclic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 723, 141-147.	2.6	25
68	Impact toughness of an S700MC-type steel: Tempforming vs ausforming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 723, 259-268.	2.6	25
69	Incomplete recrystallization in cold worked steel containing TiC. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 471, 50-56.	2.6	24
70	Regularities of Deformation Microstructures in Ferritic Stainless Steels during Large Strain Cold Working. ISIJ International, 2008, 48, 1071-1079.	0.6	24
71	Effect of rolling temperature on microstructure and mechanical properties of 18%Mn TWIP/TRIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 110-117.	2.6	21
72	Grain Refinement Kinetics in a Low Alloyed Cuâ€“Crâ€“Zr Alloy Subjected to Large Strain Deformation. Materials, 2017, 10, 1394.	1.3	21

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73	Experimental and numerical analyses of microstructure evolution of Cu-Cr-Zr alloys during severe plastic deformation. Materials Characterization, 2019, 156, 109849.	1.9	21
74	Microstructural Changes and Strengthening of Austenitic Stainless Steels during Rolling at 473 K. Metals, 2020, 10, 1614.	1.0	21
75	Static recrystallization of SiO2-particle containing {011}‹100› copper single crystals. Acta Materialia, 2003, 51, 1507-1515.	3.8	19
76	Development of a high-strength high-conductivity Cu-Ni-P alloy. Part I: Characterization of precipitation products. Journal of Electronic Materials, 2006, 35, 1787-1792.	1.0	19
77	Evolution of texture and development of â˜3 n grain clusters in 316 austenitic stainless steel during thermal mechanical processing. Journal of Materials Science, 2013, 48, 997-1004.	1.7	19
78	Microstructure evolution in a 316L stainless steel subjected to multidirectional forging and unidirectional bar rolling. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012060.	0.3	19
79	Effect of Tungsten on Creep Behavior of 9%Crâ€“3%Co Martensitic Steels. Metals, 2017, 7, 573.	1.0	19
80	Structural changes of ferritic stainless steel during severe plastic deformation. Scripta Materialia, 1995, 6, 893-896.	0.5	18
81	Creep strength breakdown and microstructure in a 9%Cr steel with high B and low N contents. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138821.	2.6	18
82	Grain refinement in copper under large strain deformation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 2629-2643.	0.7	17
83	Development of a high-strength high-conductivity Cuâ˜Niâ˜P alloy. Part II: Processing by severe deformation. Journal of Electronic Materials, 2006, 35, 2000-2008.	1.0	17
84	Influence of the carbon content on the phase composition and mechanical properties of P92-type steel. Physics of Metals and Metallography, 2015, 116, 1165-1174.	0.3	17
85	Effect of annealing on wear resistance and electroconductivity of copper processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 2270-2278.	1.7	16
86	Three-stage relationship between flow stress and dynamic grain size in titanium in a wide temperature interval. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 104-109.	2.6	16
87	Origin of Threshold Stresses in a P92-type Steel. Transactions of the Indian Institute of Metals, 2016, 69, 223-227.	0.7	16
88	Tempforming as an Advanced Processing Method for Carbon Steels. Metals, 2020, 10, 1566.	1.0	16
89	Controlling microstructure and mechanical properties of additively manufactured high-strength steels by tailored solidification. Additive Manufacturing, 2020, 35, 101389.	1.7	16
90	Regularities of Grain Refinement in an Austenitic Stainless Steel during Multiple Warm Working. Materials Science Forum, 2013, 753, 411-416.	0.3	15

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91	On the Strength of a 316L-Type Stainless Steel Subjected to Cold or Warm Rolling Followed by Annealing. Materials, 2020, 13, 2116.	1.3	15
92	Sources of high creep resistance of modern high-chromium martensitic steels. Doklady Physical Chemistry, 2015, 464, 191-193.	0.2	14
93	Advanced Thermomechanical Processing for a High-Mn Austenitic Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5704-5708.	1.1	14
94	Submicrocrystalline Austenitic Stainless Steel Processed by Cold or Warm High Pressure Torsion. Materials Science Forum, 0, 838-839, 398-403.	0.3	14
95	Dynamically Recrystallized Microstructures, Textures, and Tensile Properties of a Hot Worked High-Mn Steel. Metals, 2019, 9, 30.	1.0	14
96	On the Fracture Behavior of a Creep Resistant 10% Cr Steel with High Boron and Low Nitrogen Contents at Low Temperatures. Materials, 2020, 13, 3.	1.3	14
97	Thermal stability of ultra fine-grained steel containing dispersed oxides. Scripta Materialia, 2001, 45, 1213-1219.	2.6	13
98	Nanocrystalline structures and tensile properties of stainless steels processed by severe plastic deformation. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012156.	0.3	13
99	Microstructure and Mechanical Properties of 18%Mn TWIP/TRIP Steels Processed by Warm or Hot Rolling. Steel Research International, 2017, 88, 1600123.	1.0	13
100	The Role of Deformation in Coarsening of M23C6 Carbide Particles in 9% Cr Steel. Physics of Metals and Metallography, 2020, 121, 804-810.	0.3	13
101	Annealing behavior of submicrocrystalline oxide-bearing iron produced by mechanical alloying. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 131-138.	1.1	12
102	Changes in the grain structure of metallic materials upon plastic treatment. Physics of Metals and Metallography, 2009, 108, 390-400.	0.3	12
103	Effect of Tempering on Mechanical Properties and Microstructure of a 9% Cr Heat Resistant Steel. Materials Science Forum, 0, 706-709, 841-846.	0.3	12
104	Recrystallization behavior of a Niâ€“20%Cr alloy subjected to severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 164-172.	2.6	12
105	Microstructure and Mechanical Properties of a High-Mn TWIP Steel Subjected to Cold Rolling and Annealing. Metals, 2017, 7, 571.	1.0	12
106	On Kinetics of Grain Refinement and Strengthening by Dynamic Recrystallization. Advanced Engineering Materials, 2019, 21, 1800104.	1.6	12
107	Microstructure and Strengthening Mechanisms in an HSLA Steel Subjected to Tempforming. Metals, 2022, 12, 48.	1.0	12
108	Evolution of submicrocrystalline iron containing dispersed oxides under mechanical milling followed by consolidation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 3241-3248.	1.1	11

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109	Effect of Nano-Sized Oxides on Annealing Behaviour of Ultrafine Grained Steels. Materials Transactions, 2004, 45, 2252-2258.	0.4	11
110	Effect of Warm to Hot Rolling on Microstructure, Texture and Mechanical Properties of an Advanced Medium-Mn Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4245-4256.	1.1	11
111	Thermal stability of gradient microstructure in a low-alloyed Cu-Cr-Zr alloy. Materials Letters, 2021, 304, 130531.	1.3	11
112	Effect of chromium content on precipitation in Cuâ€“Crâ€“Zr alloys. Journal of Materials Science, 2022, 57, 13043-13059.	1.7	11
113	High-Temperature Mechanism of Dynamic Recrystallization of Ferritic Steel. Materials Science Forum, 1993, 113-115, 385-390.	0.3	10
114	Grain Boundary Assemblies in Dynamically-Recrystallized Austenitic Stainless Steel. Metals, 2016, 6, 268.	1.0	10
115	Mechanical behavior and brittleâ€“ductile transition of high-chromium martensitic steel. Physics of Metals and Metallography, 2016, 117, 390-398.	0.3	10
116	Evolution of grain boundary assemblies in Feâ€“0.6%O under mechanical milling followed by consolidating rolling. Scripta Materialia, 2003, 48, 1111-1116.	2.6	9
117	Recrystallization Mechanisms in Severely Deformed Dual-Phase Stainless Steel. Materials Science Forum, 0, 638-642, 1905-1910.	0.3	8
118	Effect of cold rolling on the structure and mechanical properties of austenitic corrosion-resistant 10Kh18N8D3BR steel. Russian Metallurgy (Metally), 2012, 2012, 772-778.	0.1	8
119	Development of Ultrafine Grained Austenitic Stainless Steels by Large Strain Deformation and Annealing. Materials Science Forum, 0, 783-786, 651-656.	0.3	8
120	Recrystallization kinetics of an austenitic high-manganese steel subjected to severe plastic deformation. Russian Metallurgy (Metally), 2016, 2016, 812-819.	0.1	8
121	Regularities of Microstructure Evolution and Strengthening Mechanisms of Austenitic Stainless Steels Subjected to Large Strain Cold Working. Materials Science Forum, 0, 879, 224-229.	0.3	8
122	Improving Mechanical Properties of 18%Mn TWIP Steels by Cold Rolling and Annealing. Metals, 2019, 9, 776.	1.0	8
123	Microstructures and Mechanical Properties of Steels and Alloys Subjected to Large-Strain Cold-to-Warm Deformation. Metals, 2022, 12, 454.	1.0	8
124	Effect of SPD Processing Technique on Grain Refinement and Properties of an Austenitic Stainless Steel. Materials Science Forum, 2016, 879, 1957-1962.	0.3	7
125	Deformation Behavior of High-Mn TWIP Steels Processed by Warm-to-Hot Working. Metals, 2018, 8, 415.	1.0	7
126	Tailoring microstructure and texture of annealed Al-Mn alloy through the variation of homogenization and prior cold deformation strain. Materials Characterization, 2020, 166, 110438.	1.9	7

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127	Peculiarities of DRX in a Highly-Alloyed Austenitic Stainless Steel. Materials, 2021, 14, 4004.	1.3	7
128	Annealing softening mechanisms operating in cold worked oxide-bearing steels. Scripta Materialia, 2003, 48, 1463-1468.	2.6	6
129	The Formation of Fine-Grained Structure in S304H-Type Austenitic Stainless Steel during Hot-To-Warm Working. Materials Science Forum, 2012, 715-716, 380-385.	0.3	6
130	Formation of Ultrafine-Grained Structures in 304L and 316L Stainless Steels by Recrystallization and Reverse Phase Transformation. Materials Science Forum, 0, 838-839, 410-415.	0.3	6
131	Annealing Behavior and Kinetics of Primary Recrystallization of Copper. Defect and Diffusion Forum, 2018, 385, 343-348.	0.4	6
132	Grain sizes and dislocation densities in fcc-metallic materials processed by warm to hot working. Journal of Physics: Conference Series, 2019, 1270, 012039.	0.3	6
133	Structural changes in refractory steel 10Kh9V2MFBR due to creep at 650Â°C. Metal Science and Heat Treatment, 2010, 52, 111-117.	0.2	5
134	Structural changes in steel 10Kh9K3V1M1FBR due to creep. Metal Science and Heat Treatment, 2010, 52, 118-127.	0.2	5
135	Dynamic Recrystallization Mechanisms Operating under Different Processing Conditions. Materials Science Forum, 0, 706-709, 2704-2709.	0.3	5
136	Modeling the effect of deformation on strength of a Fe-23Mn-0.3C-1.5Al TWIP steel. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012059.	0.3	5
137	Effect of Tempering on Microstructure and Creep Properties of P911 Steel. Materials Science Forum, 2016, 879, 1963-1968.	0.3	5
138	Hot Deformation and Dynamic Recrystallization of 18%Mn Twinningâ€induced Plasticity Steels. Advanced Engineering Materials, 2020, 22, 2000098.	1.6	5
139	On the transformation-induced plasticity of a medium-manganese steel. Materials Letters, 2021, 304, 130599.	1.3	5
140	Cryogenic impact toughness of a work hardened austenitic stainless steel. Materialia, 2022, 23, 101460.	1.3	5
141	Microstructure Evolution in a 9%Cr Heat Resistant Steel during Creep Tests. Materials Science Forum, 2010, 638-642, 2315-2320.	0.3	4
142	Structural Changes in a 304-Type Austenitic Stainless Steel Processed by Multiple Hot Rolling. Advanced Materials Research, 2011, 409, 730-735.	0.3	4
143	Effect of large plastic deformation on microstructure and mechanical properties of a TWIP steel. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012064.	0.3	4
144	Effect of Cold Rolling on Microstructure and Mechanical Properties of a Fe-23Mn-0.3C-1.5Al TWIP Steel. Advanced Materials Research, 0, 922, 394-399.	0.3	4

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145	Effect of multidirectional forging and equal channel angular pressing on ultrafine grain formation in a Cu- Cr-Zr alloy. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012097.	0.3	4
146	Deformation Microstructures and Mechanical Properties of an Austenitic Stainless Steel Subjected to Warm Rolling. Materials Science Forum, 0, 879, 1414-1419.	0.3	4
147	Influence of cold forging and annealing on microstructure and mechanical properties of a high-Mn TWIP steel. Metallic Materials, 2017, 55, 161-167.	0.2	4
148	Microstructure and Mechanical Properties of Structural Metals and Alloys. Metals, 2018, 8, 676.	1.0	4
149	Outstanding impact toughness of low-alloyed steel with fine lamellar microstructure. Materials Letters, 2021, 303, 130547.	1.3	4
150	Grain Refinement in a 304 Type Stainless Steel Caused by Multiple Deformation at 0.5 Tm. ISIJ International, 2000, 40, S164-S168.	0.6	4
151	On Structural Mechanism of Continuous Recrystallization in Ferritic Stainless Steel after Large Strain Processing. Materials Science Forum, 2006, 503-504, 323-328.	0.3	3
152	Texture Invariant Annealing in Severely Deformed Steel. Materials Science Forum, 2007, 558-559, 101-106.	0.3	3
153	Nanostructure Evolution in an Austenitic Stainless Steel Subjected to Multiple Forging at Ambient Temperature. Materials Science Forum, 2010, 667-669, 553-558.	0.3	3
154	Microstructure and Deformation Behavior of a Hot Forged 9%Cr Creep Resistant Steel. Advanced Materials Research, 2011, 409, 672-677.	0.3	3
155	Zener Pinning Pressure in Tempered Martensite Lath Structure. Materials Science Forum, 2012, 715-716, 745-750.	0.3	3
156	Structure and Fatigue Properties of Cr-Ni-Ti Austenitic Steel after Equal Channel Angular Pressing. Materials Science Forum, 0, 783-786, 2611-2616.	0.3	3
157	Microstructure Evolution in a 304-Type Austenitic Stainless Steel during Multidirectional Forging at Ambient Temperature. Materials Science Forum, 0, 783-786, 831-836.	0.3	3
158	On Regularities of Grain Refinement through Large Strain Deformation. Materials Science Forum, 2016, 838-839, 314-319.	0.3	3
159	Ultrafine-Grained Structure and Mechanical Properties of a High-Mn Twinning Induced Plasticity Steel. Materials Science Forum, 2016, 838-839, 392-397.	0.3	3
160	Microstructure and Mechanical Properties of an Ultrafine Grained Medium-Mn Steel. Defect and Diffusion Forum, 2018, 385, 308-313.	0.4	3
161	On strengthening of ultrafine grained austenitic steels subjected to large strain deformation. IOP Conference Series: Materials Science and Engineering, 2019, 672, 012021.	0.3	3
162	GRAIN BOUNDARY PLANE DISTRIBUTIONS IN 304 STEEL ANNEALED AT HIGH TEMPERATURE AFTER A PARALLEL PROCESSING OF MULTIPLE FORGING AND DIRECT ROLLING. Jinshu Xuebao/Acta Metallurgica Sinica, 2012, 48, 895.	0.3	3

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163	Structural changes in corrosion-resistant steels during hot deformation. Metal Science and Heat Treatment, 1992, 34, 324-329.	0.2	2
164	Evolution of Grain Boundaries and Subboundaries in Stainless Steel during Dynamic Recrystallization. Materials Science Forum, 2003, 426-432, 1005-1010.	0.3	2
165	Recovery and Recrystallization in Cold Worked Fe â€“ O Steels. Materials Science Forum, 2004, 467-470, 229-234.	0.3	2
166	Deformation Microstructures in a Two-Phase Stainless Steel during Large Strain Deformation. Materials Science Forum, 2006, 503-504, 305-310.	0.3	2
167	Plastic flow of the mechanically alloyed Fe-0.6%O at temperatures of 550â€“700Â°C. Physics of Metals and Metallography, 2009, 107, 516-521.	0.3	2
168	Effect of austenization temperature on creep resistance of steel 10Kh9V2MFBR. Metal Science and Heat Treatment, 2010, 52, 166-170.	0.2	2
169	The Formation of Submicrometer Scale Grains in a Super304H Steel during Multiple Compressions at 700Â°C. Materials Science Forum, 2010, 667-669, 565-570.	0.3	2
170	Microstructure Evolution in a Cu-Ag Alloy during Large Strain Deformation and Annealing. Materials Science Forum, 2010, 667-669, 493-498.	0.3	2
171	Submicrocrystalline Structures and Tensile Behaviour of Stainless Steels Subjected to Large Strain Deformation and Subsequent Annealing. Advanced Materials Research, 2011, 409, 607-612.	0.3	2
172	Grain Refinement in Austenitic Stainless Steel during Warm Screw Rolling. Materials Science Forum, 0, 715-716, 889-894.	0.3	2
173	Evolution of Laves-Phase Particles in a Low Carbon 9%Cr Martensitic Steel during Creep at 650Â°C. Advanced Materials Research, 0, 922, 155-160.	0.3	2
174	Static Grain Growth in an Austenitic Stainless Steel Subjected to Intense Plastic Straining. Materials Science Forum, 0, 783-786, 1021-1026.	0.3	2
175	Tensile behavior of an austenitic stainless steel subjected to multidirectional forging. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012063.	0.3	2
176	Mechanical characteristics and microstructure of weld joint of high-temperature martensitic steel containing 9% Cr. Physics of Metals and Metallography, 2016, 117, 378-389.	0.3	2
177	Effect of thermomechanical treatment on microstructure and mechanical properties of high-strength low-alloy steel. AIP Conference Proceedings, 2017, , .	0.3	2
178	Effect of tempering on microstructure and mechanical properties of a Ta-added 9%Cr steel with high B and low N contents. IOP Conference Series: Materials Science and Engineering, 0, 525, 012049.	0.3	2
179	Microstructure and Crystallographic Texture of Silicon Iron Modified by Torsion Under Quasihydrostatic Pressure. Russian Physics Journal, 2019, 62, 1518-1528.	0.2	2
180	Structure and Texture Evolution of the Metastable Austenitic Steel during Cold Working. Physics of Metals and Metallography, 2020, 121, 675-682.	0.3	2

#	Article	IF	Citations
181	On friction stir welding of a medium manganese austenitic steel. Philosophical Magazine, 2021, 101, 576-597.	0.7	2
182	Effect of deformation techniques on the microstructure and mechanical properties of a copper alloy. IOP Conference Series: Materials Science and Engineering, 2021, 1014, 012030.	0.3	2
183	Stability of the Ultrafine-Grained Structure of Austenitic Corrosion-Resistant Steels during Annealing. Physics of Metals and Metallography, 2021, 122, 775-781.	0.3	2
184	On Annealing Mechanisms Operating in Ultra Fine Grained Alloys. , 2005, , 780-785.		1
185	Microstructure fragmentation in Fe-O alloy during severe plastic deformation. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1274-1277.	0.1	1
186	Dynamic polygonization in 9%Cr heat resistant steel. Journal of Physics: Conference Series, 2010, 240, 012070.	0.3	1
187	Microstructure Evolution in a 3%Co Modified P911 Heat Resistant Steel under Creep Conditions. Advanced Materials Research, 0, 89-91, 295-300.	0.3	1
188	Migration of Dislocation Boundaries in a Modified P911 3%Co Heat Resistant Steel during Tempering, Ageing and Creep. Materials Science Forum, 2012, 715-716, 953-958.	0.3	1
189	Kinetics of Grain Refinement by Warm Deformation of 304-Type Stainless Steel. Materials Science Forum, 0, 706-709, 2326-2331.	0.3	1
190	Mechanical Properties at Elevated Temperatures of an S304H-Type Austenitic Stainless Steel Processed by Warm Rolling. Advanced Materials Research, 0, 922, 844-849.	0.3	1
191	Effect of Deformation Structure on Strength of a Low Alloyed Cu-Cr-Zr Alloy. Materials Science Forum, 2016, 879, 1332-1337.	0.3	1
192	Kinetics of Submicrocrystalline Structure Formation in a Cu-Cr-Zr Alloy during Large Plastic Deformation. Materials Science Forum, 2016, 879, 1749-1754.	0.3	1
193	Austenitic Stainless Steel: Microstructural Evolution. , 2016, , 243-253.		1
194	Development of Fine-Grained High-Mn Steelby Cold Rolling and Annealing. Materials Science Forum, 0, 838-839, 434-439.	0.3	1
195	Effect of large strain warm rolling and subsequent annealing on the microstructure and mechanical properties of austenitic stainless steels. AIP Conference Proceedings, 2017, , .	0.3	1
196	Effect of Cold Rolling and Subsequent Annealing on the Microstructure and the Microtexture of Austenitic Corrosion-Resistant Steels. Russian Metallurgy (Metally), 2019, 2019, 315-325.	0.1	1
197	Deformation and Recrystallization Textures in a High-Mn Steel Subjected to Large Strain Cold Rolling. , 2016, , 147-152.		1
198	Deformation Mechanisms Operating in TWIP/TRIP Steels Processed by Warm to Hot Working. Acta Physica Polonica A, 2018, 134, 640-643.	0.2	1

#	Article	IF	Citations
199	Effect of tempforming temperature on the microstructure and mechanical properties of A high-strength low-carbon steel. , 2019, , .		1
200	Dynamic Recrystallization in Austenitic Stainless Steel during Hot Working with Decreasing Deformation Temperature. Materials Performance and Characterization, 2019, 8, 808-820.	0.2	1
201	Mechanical properties of high-strength low-alloy steel after tempforming. AIP Conference Proceedings, 2022, , .	0.3	1
202	Effect of Deformation Mechanisms on Dynamic Recrystallization of Ferrite Stainless Steel. Key Engineering Materials, 1995, 97-98, 425-430.	0.4	0
203	Two Types of Grain Boundaries in Deformed Materials. Materials Science Forum, 1996, 207-209, 461-464.	0.3	0
204	Recovery in 15%Cr Ferritic Stainless Steel after Large Strain Deformation. Materials Science Forum, 2007, 558-559, 119-124.	0.3	0
205	Mechanisms of New Grain Formation in a Ni-20%Cr Alloy during Warm to Hot Working. Materials Science Forum, 2010, 638-642, 2221-2226.	0.3	0
206	Recrystallization Mechanisms Leading to the Formation of Nanoscale Grains in a Ni-20%Cr Alloy Subjected to Intense Plastic Deformation. Materials Science Forum, 2010, 667-669, 349-354.	0.3	0
207	Creep Behavior of an Oxide Dispersion Strengthened Iron with Ultrafine Grain Structure. Materials Science Forum, 2010, 638-642, 3194-3199.	0.3	0
208	Internal stresses in a 15%Cr ferritic stainless steel after large strain unidirectional processing. Journal of Physics: Conference Series, 2010, 240, 012115.	0.3	0
209	Microstructure Evolution in a P911 Steel under Creep Conditions. Advanced Materials Research, 0, 409, 223-227.	0.3	0
210	Recrystallization Processes in a Ni-20%Cr Alloy Subjected to High-Pressure Torsion. Materials Science Forum, 2012, 715-716, 309-314.	0.3	0
211	Ultrafine Grain Evolution in Austenitic Stainless Steel during Large Strain Deformation and Subsequent Annealing. Materials Science Forum, 0, 715-716, 273-278.	0.3	0
212	Structural Changes in a 9%Cr Creep Resistant Steel during Creep Test. Materials Science Forum, 2012, 715-716, 895-900.	0.3	0
213	Microstructure evolution in a Cu-Cr-Zr alloy during warm intense plastic straining. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012094.	0.3	0
214	Ultrafine Grain Evolution in a Cu-Cr-Zr Alloy during Warm Multidirectional Forging. Materials Science Forum, 0, 783-786, 2683-2688.	0.3	0
215	Analysis of the deformation behavior of low Cu-Cr-Zr alloy. AIP Conference Proceedings, 2016, , .	0.3	0
216	Microstructure and mechanical properties of advanced austenitic steel. AIP Conference Proceedings, 2016, , .	0.3	0

#	Article	IF	Citations
217	Analysis of the tensile behavior of high-Mn TWIP steel based on the microstructural evolution. AIP Conference Proceedings, 2016, , .	0.3	0
218	Deformation and Recrystallization Textures in A High-Mn Steel Subjected to Large Strain Cold Rolling. , 0, , 147-152.		0
219	Effects of Initial Microstructure and Deformation Method on Grain Refinement in a Cu-Cr-Zr Alloy. Materials Science Forum, 0, 838-839, 308-313.	0.3	0
220	Superplastic Behavior of a Cu-Cr-Zr Alloy Subjected to ECAP. Materials Science Forum, 2016, 838-839, 404-409.	0.3	0
221	Effect of annealing treatment on ECAP structure in Cu-Cr-Zr bronze. AIP Conference Proceedings, 2017, , .	0.3	0
222	Advanced automobile steels subjected to plate rolling at 773â€...K or 1373â€...K. AIP Conference Proceedings, 2017, , .	0.3	0
223	Recrystallization kinetics and texture evolution during annealing of cold-rolled high-Mn steel. AIP Conference Proceedings, 2017, , .	0.3	0
224	Microstructure and mechanical properties of a modified P911-type steel weld joint. AIP Conference Proceedings, 2018, , .	0.3	0
225	Mechanical Behavior of High-Mn Steels Processed by Hot Rolling. Materials Science Forum, 2018, 941, 299-304.	0.3	0
226	Dynamic recrystallization of a high-Mn TWIP steel during multiple forging at 800Â°C. AIP Conference Proceedings, 2018, , .	0.3	0
227	Effect of Deformation Temperature on Microstructure and Mechanical Properties of Low-Alloyed Copper Alloy. Materials Science Forum, 2018, 941, 982-987.	0.3	0
228	Thermal stability of recycled copper. AIP Conference Proceedings, 2018, , .	0.3	0
229	Effect of hot working conditions on microstructure and mechanical properties of a high-Mn TWIP steel. AIP Conference Proceedings, 2018, , .	0.3	0
230	On Primary Recrystallization of High-Mn Austenitic Steels. Defect and Diffusion Forum, 2018, 385, 337-342.	0.4	0
231	Grain Orientation Spread in Dynamically Recrystallized Austenitic Steel. Materials Science Forum, 0, 1016, 50-55.	0.3	0
232	Microstructure of a low alloyed Cu-Cr-Zr alloy after ECAP-Conform. IOP Conference Series: Materials Science and Engineering, 2021, 1014, 012029.	0.3	0
233	Effect of the deformation temperature on the deformation behavior of a Cu-Cr-Zr alloy. IOP Conference Series: Materials Science and Engineering, 2021, 1014, 012033.	0.3	0
234	Creep behavior and microstructure of a Ta-added 9%Cr steel with high B and low N contents. IOP Conference Series: Materials Science and Engineering, 2021, 1014, 012055.	0.3	0

#	Article	IF	Citations
235	Creep strength and microstructure of a modified P911-type steel weld joint. IOP Conference Series: Materials Science and Engineering, 2021, 1014, 012056.	0.3	0
236	Annealed Microstructures in Mechanically Milled Fe-0.6%O Powders. , 0, , 558-563.		0
237	MECHANISMS OF THE FORMATION OF HIGH ANGLE GRAIN BOUNDARIES DURING THE HOT DEFORMATION OF STAINLESS STEELS. Journal De Physique Colloque, 1990, 51, C1-435-C1-438.	0.2	0
238	Microstructure and mechanical properties of an austenitic stainless steel subjected to multiple forging and subsequent annealing. , 2019, , .		0
239	Effect of rolling temperature and thickness reduction on the strength of a 316L steel. AIP Conference Proceedings, 2022, , .	0.3	0
240	Microtexture evolutions in 304L and 316L stainless steels during rolling at 200Â°C and annealing. AIP Conference Proceedings, 2022, , .	0.3	0
241	Effect of advanced thermo-mechanical treatment on microstructure and properties of a low-alloyed copper alloy. AIP Conference Proceedings, 2022, , .	0.3	0