Rustam Kaibyshev

List of Publications by Year
in descending order

194 papers	11,026 citations	36691 53 h-index	39744 98 g-index
196 all docs	196 docs citations	196 times ranked	5259 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	Correlation of plastic deformation and dynamic recrystallization in magnesium alloy ZK60. Acta Materialia, 2001, 49, 1199-1207.	3.8	1,059
3	Friction stir welding/processing of metals and alloys: A comprehensive review on microstructural evolution. Progress in Materials Science, 2021, 117, 100752.	16.0	436
4	Dynamic Recrystallization in Pure Magnesium. Materials Transactions, 2001, 42, 1928-1937.	0.4	293
5	Continuous dynamic recrystallization in an Alâ€“Liâ€“Mgâ€“Sc alloy during equal-channel angular extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 396, 341-351.	2.6	212
6	High strain rate superplasticity in a continuously recrystallized Alâ€“6%Mgâ€“0.3%Sc alloy. Acta Materialia, 1998, 46, 2789-2800.	3.8	184
7	Continuous recrystallization in austenitic stainless steel after large strain deformation. Acta Materialia, 2002, 50, 1547-1557.	3.8	178
8	Dynamic recrystallization mechanisms operating in a Niâ€“20%Cr alloy under hot-to-warm working. Acta Materialia, 2010, 58, 3624-3632.	3.8	160
9	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
10	Microstructure behavior of Alâ€“Mgâ€“Sc alloy processed by ECAP at elevated temperature. Acta Materialia, 2008, 56, 821-834.	3.8	149
11	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
12	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
13	Al3(Sc,Zr)-based precipitates in Alâ€“Mg alloy: Effect of severe deformation. Acta Materialia, 2017, 124, 210-224.	3.8	138
14	Superplastic behavior of an Alâ€“Mg alloy at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 342, 169-177.	2.6	124
15	Effect of second phase particles on grain refinement during equal-channel angular pressing of an Alâ€“Mgâ€“Mn alloy. Acta Materialia, 2012, 60, 487-497.	3.8	112
16	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
17	High strain rate superplasticity in a commercial Alâ€“Mgâ€“Sc alloy. Scripta Materialia, 2004, 50, 511-516.	2.6	108
18	Precipitation structure and strengthening mechanisms in an Al-Cu-Mg-Ag alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 702, 29-40.	2.6	108

#	Article	IF	Citations
19	Optimization of processing-microstructure-properties relationship in friction-stir welded 6061-T6 aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 136-143.	2.6	107
20	Effect of deformation temperature on microstructure evolution in aluminum alloy 2219 during hot ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 662-671.	2.6	106
21	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
22	Wear resistance and electroconductivity in copper processed by severe plastic deformation. Wear, 2013, 305, 89-99.	1.5	100
23	Deformation structures and strengthening mechanisms in an Al Mg Sc Zr alloy. Journal of Alloys and Compounds, 2017, 698, 957-966.	2.8	92
24	Hall-Petch relationship for austenitic stainless steels processed by large strain warm rolling. Acta Materialia, 2017, 136, 39-48.	3.8	92
25	Grain Refinement under Multiple Warm Deformation in 304 Type Austenitic Stainless Steel.. ISIJ International, 1999, 39, 592-599.	0.6	87
26	Deformation behavior of a 2219 Al alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 334, 104-113.	2.6	86
27	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
28	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
29	Creep strength breakdown and microstructure evolution in a 3%Co modified P92 steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 1-12.	2.6	86
30	Solidification behaviour and the effects of homogenisation on the structure of an Alâ€"Cuâ€"Mgâ€"Agâ€"Sc alloy. Journal of Alloys and Compounds, 2011, 509, 9497-9507.	2.8	82
31	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
32	Effect of pressing temperature on fine-grained structure formation in 7475 aluminum alloy during ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 381, 121-128.	2.6	79
33	Effect of pre-straining on the aging behavior and mechanical properties of an Alâ€"Cuâ€"Mgâ€"Ag alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 119-130.	2.6	79
34	Friction stir welding of a Ñarbon-doped CoCrFeNiMn high-entropy alloy. Materials Characterization, 2018, 145, 353-361.	1.9	77
35	Grain refinement in as-cast 7475 aluminum alloy under hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 344, 348-356.	2.6	76
36	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

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37	Grain refinement in aluminum alloy 2219 during ECAP at 250Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 473, 297-305.	2.6	72
38	Effect of microstructure on continuous propagation of the Portevinâ€“Le Chatelier deformation bands. International Journal of Plasticity, 2017, 96, 210-226.	4.1	72
39	Effect of cold rolling on recrystallization and tensile behavior of a high-Mn steel. Materials Characterization, 2016, 112, 180-187.	1.9	71
40	Grain refinement in a commercial Alâ€“Mgâ€“Sc alloy under hot ECAP conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 444, 18-30.	2.6	66
41	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
42	Development of Nanocrystalline 304L Stainless Steel by Large Strain Cold Working. Metals, 2015, 5, 656-668.	1.0	65
43	Effect of Grain Refinement on Jerky Flow in an Al-Mg-Sc Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2093-2106.	1.1	65
44	Deformation structures and strengthening mechanisms in an Al-Cu alloy subjected to extensive cold rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 702, 53-64.	2.6	65
45	Structural strengthening of an austenitic stainless steel subjected to warm-to-hot working. Materials Characterization, 2011, 62, 432-437.	1.9	63
46	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
47	Strengthening mechanisms in a Zr-modified 5083 alloy deformed to high strains. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 246-252.	2.6	62
48	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
49	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
50	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
51	Microstructural evolution in a 5024 aluminum alloy processed by ECAP with and without back pressure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 178-192.	2.6	59
52	Superplasticity in a 7055 aluminum alloy processed by ECAE and subsequent isothermal rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 407, 62-70.	2.6	58
53	Friction-stir welding of an Alâ€“Mgâ€“Scâ€“Zr alloy in as-fabricated and work-hardened conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 159-170.	2.6	58
54	On the Precipitation Sequence in a 10%Cr Steel under Tempering. ISIJ International, 2011, 51, 826-831.	0.6	57

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55	Superplasticity in a magnesium alloy subjected to isothermal rolling. Scripta Materialia, 2004, 51, 89-93.	2.6	56
56	Effect of Tempering on Microstructure and Mechanical Properties of Boron Containing 10%Cr Steel. ISIJ International, 2011, 51, 1912-1918.	0.6	54
57	Aging behavior of an Alâ€“Cuâ€“Mg alloy. Journal of Alloys and Compounds, 2018, 759, 108-119.	2.8	54
58	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
59	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
60	Strain-induced submicrocrystalline grains developed in austenitic stainless steel under severe warm deformation. Philosophical Magazine Letters, 2000, 80, 711-718.	0.5	50
61	Deformation behavior of a modified 5083 aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 392, 373-379.	2.6	50
62	Friction-stir welding of ultra-fine grained sheets of Alâ€“Mgâ€“Scâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 624, 132-139.	2.6	48
63	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
64	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
65	Superplastic behavior and microstructure evolution in a commercial Al-Mg-Sc alloy subjected to intense plastic straining. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 2383-2392.	1.1	44
66	The crystallography of M₂₃C₆carbides in a martensitic 9% Cr steel after tempering, aging and creep. Philosophical Magazine, 2013, 93, 2259-2268.	0.7	44
67	Grain refinement and strengthening of a Cuâ€“0.1Crâ€“0.06Zr alloy subjected to equal channel angular pressing. Philosophical Magazine, 2017, 97, 2053-2076.	0.7	44
68	Achieving high strain rate superplasticity in an Alâ€“Liâ€“Mg alloy through equal channel angular extrusion. Materials Science and Technology, 2005, 21, 408-418.	0.8	43
69	Interrelation between the Portevin Le-Chatelier effect and necking in AlMg alloys. International Journal of Plasticity, 2018, 110, 95-109.	4.1	43
70	Mechanical properties and fracture behavior of an Alâ€“Mgâ€“Scâ€“Zr alloy at ambient and subzero temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 132-141.	2.6	42
71	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
72	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

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73	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
74	Precipitation behavior in an Alâ€“Cuâ€“Mgâ€“Si alloy during ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 767, 138369.	2.6	40
75	Mechanisms of Dynamic Recrystallization in Aluminum Alloys. Materials Science Forum, 0, 794-796, 784-789.	0.3	39
76	On the origin of the superior long-term creep resistance of a 10% Cr steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 713, 161-173.	2.6	39
77	Creep behavior of a 10%Cr heat-resistant martensitic steel with low nitrogen and high boron contents at 650â€¯Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138353.	2.6	39
78	Microstructural aspects of superior creep resistance of a 10%Cr martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 178-189.	2.6	37
79	Effect of plastic deformation on the ageing behaviour of an Alâ€“Cuâ€“Mg alloy with a high Cu/Mg ratio. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 737, 401-412.	2.6	37
80	Grain refinement in an Al-Mg-Sc alloy: Equal channel angular pressing versus friction-stir processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 480-490.	2.6	36
81	Low cycle fatigue behavior of a 10Crâ€“2Wâ€“Moâ€“3Coâ€“NbV steel. International Journal of Fatigue, 2016, 83, 344-355.	2.8	36
82	Evolution of Lath Substructure and Internal Stresses in a 9% Cr Steel during Creep. ISIJ International, 2017, 57, 540-549.	0.6	35
83	Effect of over-aging on the microstructural evolution in an Alâ€“Cuâ€“Mgâ€“Ag alloy during ECAP at 300Â°C. Journal of Alloys and Compounds, 2012, 527, 163-175.	2.8	34
84	Creep behavior and microstructure of a 9Crâ€“3Coâ€“3W martensitic steel. Journal of Materials Science, 2017, 52, 2974-2988.	1.7	34
85	Microstructural evolution and strengthening mechanisms operating during cryogenic rolling of solutionized Al-Cu-Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 745, 82-89.	2.6	34
86	Superplasticity of friction-stir welded Alâ€“Mgâ€“Sc sheets with ultrafine-grained microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 85-92.	2.6	33
87	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
88	Pre-strain rolling as an effective tool for suppression of abnormal grain growth in friction-stir welded 6061 aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 733, 39-42.	2.6	32
89	Grain boundary assembles developed in an austenitic stainless steel during large strain warm working. Materials Characterization, 2012, 70, 14-20.	1.9	31
90	Strengthening mechanisms of creep-resistant 12%Crâ€“3%Co steel with low N and high B contents. Journal of Materials Science, 2020, 55, 7530-7545.	1.7	31

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91	Microstructure evolution and strengthening mechanisms in friction-stir welded Alâ€"Mgâ€"Sc alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 770, 138540.	2.6	30
92	Partial Grain Refinement in Al-3%Cu Alloy during ECAP at Elevated Temperatures. Materials Transactions, 2009, 50, 101-110.	0.4	29
93	Dislocation glide and dynamic recrystallization in LiF single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 328, 147-155.	2.6	28
94	The effect of second-phase particles on grain refinement during equal-channel angular pressing in an Alâ€"Cuâ€"Mgâ€"Ag alloy. Journal of Materials Science, 2015, 50, 990-1005.	1.7	28
95	Microstructure evolution and strengthening mechanisms in friction-stir welded TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 248-258.	2.6	28
96	High Strain Rate Superplasticity in an Al-Li-Mg Alloy Subjected to Equal-Channel Angular Extrusion. Materials Transactions, 2002, 43, 2370-2377.	0.4	26
97	Superplasticity in a 7055 aluminum alloy subjected to intense plastic deformation. Materials Science and Technology, 2003, 19, 1491-1497.	0.8	26
98	The precipitation behavior of an Alâ€"Cuâ€"Mgâ€"Ag alloy under ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 65-75.	2.6	26
99	Effect of W on tempering behaviour of a 3Â%Co modified P92 steel. Journal of Materials Science, 2016, 51, 9424-9439.	1.7	26
100	On effect of rhenium on mechanical properties of a high-Cr creep-resistant steel. Materials Letters, 2019, 236, 81-84.	1.3	25
101	On the possibility of producing a nanocrystalline structure in magnesium and magnesium alloys. Scripta Materialia, 1995, 6, 621-624.	0.5	24
102	Effect of microstructural evolution on the cyclic softening of a 10% Cr martensitic steel under low cycle fatigue at 600ÂÂ°C. International Journal of Fatigue, 2020, 134, 105522.	2.8	23
103	Superplasticity of ultrafine-grained Alâ€"Mgâ€"Scâ€"Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 675, 228-242.	2.6	22
104	Effect of alloying on interfacial energy of precipitation/matrix in high-chromium martensitic steels. Journal of Materials Science, 2017, 52, 4197-4209.	1.7	22
105	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
106	Grain Refinement Kinetics in a Low Alloyed Cuâ€"Crâ€"Zr Alloy Subjected to Large Strain Deformation. Materials, 2017, 10, 1394.	1.3	21
107	Impact toughness of a 10% Cr steel with high boron and low nitrogen contents. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 1-9.	2.6	21
108	Microstructural Changes and Strengthening of Austenitic Stainless Steels during Rolling at 473 K. Metals, 2020, 10, 1614.	1.0	21

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109	Coarsening of Laves phase and creep behaviour of a Re-containing 10% Cr-3% Co-3% W steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141137.	2.6	21
110	Mechanical Behavior of an Alâ€“Mgâ€“Mnâ€“Sc Alloy with an Ultrafine Grain Structure at Cryogenic Temperatures. Advanced Engineering Materials, 2015, 17, 1804-1811.	1.6	20
111	Cryogenic properties of Alâ€“Mgâ€“Scâ€“Zr friction-stir welds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598, 387-395.	2.6	19
112	Effect of Tungsten on Creep Behavior of 9%Crâ€“3%Co Martensitic Steels. Metals, 2017, 7, 573.	1.0	19
113	Suppression of abnormal grain growth in friction-stir welded Alâ€“Cuâ€“Mg alloy by lowering of welding temperature. Scripta Materialia, 2021, 196, 113765.	2.6	19
114	Effect of Alloying on the Nucleation and Growth of Laves Phase in the 9â€“10%Cr-3%Co Martensitic Steels during Creep. Metals, 2021, 11, 60.	1.0	19
115	Structural changes of ferritic stainless steel during severe plastic deformation. Scripta Materialia, 1995, 6, 893-896.	0.5	18
116	Microstructure and Mechanical Properties of an Al-Li-Mg-Sc-Zr Alloy Subjected to ECAP. Metals, 2016, 6, 254.	1.0	18
117	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
118	Role of Tungsten in the Tempered Martensite Embrittlement of a Modified 9ÂPct Cr Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 982-998.	1.1	17
119	Effect of the strain rate on the low cycle fatigue behavior of a 10Cr-2W-Mo-3Co-NbV steel at 650 Â°C. International Journal of Fatigue, 2017, 100, 113-125.	2.8	17
120	High cyclic fatigue performance of Alâ€“Cuâ€“Mgâ€“Ag alloy under T6 and T840 conditions. Transactions of Nonferrous Metals Society of China, 2017, 27, 1215-1223.	1.7	17
121	Strain-induced Z-phase formation in a 9% Cr-3% Co martensitic steel during creep at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 724, 29-36.	2.6	17
122	Nucleation of W-rich carbides and Laves phase in a Re-containing 10% Cr steel during creep at 650ÂÂ°C. Materials Characterization, 2020, 169, 110651.	1.9	17
123	Ageing response of cold-rolled Alâ€“Cuâ€“Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 781, 139148.	2.6	17
124	Origin of Threshold Stresses in a P92-type Steel. Transactions of the Indian Institute of Metals, 2016, 69, 223-227.	0.7	16
125	Effect of Tungsten on a Dispersion of M(C,N) Carbonitrides in 9Â% Cr Steels Under Creep Conditions. Transactions of the Indian Institute of Metals, 2016, 69, 211-215.	0.7	16
126	Effect of Ni and Mn on the Creep Behaviour of 9â€“10 %Cr Steels with Low N and High B. Transactions of the Indian Institute of Metals, 2016, 69, 203-210.	0.7	16

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127	Fatigue Performance of Friction-Stir-Welded Al-Mg-Sc Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 150-158.	1.1	16
128	Peculiar Spatiotemporal Behavior of Unstable Plastic Flow in an AlMgMnScZr Alloy with Coarse and Ultrafine Grains. Metals, 2017, 7, 325.	1.0	16
129	Low Cycle Fatigue Behavior of a 10% Cr Martensitic Steel at 600Â°C. ISIJ International, 2015, 55, 2469-2476.	0.6	14
130	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
131	Low-cyclic fatigue behaviour of an Alâ€"Cuâ€"Mgâ€"Ag alloy under T6 and T840 conditions. Materials Science and Technology, 2017, 33, 688-698.	0.8	14
132	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
133	Superior creep resistance of a high-Cr steel with Re additives. Materials Letters, 2020, 262, 127183.	1.3	13
134	The Role of Microstructure in Creep Strength of 9-12%Cr Steels. Materials Science Forum, 2016, 879, 36-41.	0.3	12
135	Microstructure and Mechanical Properties of a High-Mn TWIP Steel Subjected to Cold Rolling and Annealing. Metals, 2017, 7, 571.	1.0	12
136	Effect of Cold Plastic Deformation Prior to Ageing on Creep Resistance of an Al-Cu-Mg-Ag Alloy. Materials Science Forum, 0, 794-796, 278-283.	0.3	11
137	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
138	On the mechanisms of nucleation and subsequent development of the PLC bands in an AlMg alloy. Journal of Alloys and Compounds, 2021, 868, 159135.	2.8	11
139	Cost-Affordable Technique Involving Equal Channel Angular Pressing for the Manufacturing of Ultrafine Grained Sheets of an Al-Li-Mg-Sc Alloy. Advanced Engineering Materials, 2010, 12, 735-739.	1.6	10
140	Grain Boundary Assemblies in Dynamically-Recrystallized Austenitic Stainless Steel. Metals, 2016, 6, 268.	1.0	10
141	Effect of Laves Phase on Ductile-Brittle Transition of 12 Pct Cr Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3528-3543.	1.1	9
142	Deformation behavior of friction-stir welded Al-Mg-Mn alloy with ultrafine-grained structure. Materials Characterization, 2022, 185, 111758.	1.9	9
143	Unusual ageing behaviour of friction-stir welded Alâ€"Cuâ€"Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 793, 139882.	2.6	8
144	Microstructures and Mechanical Properties of Steels and Alloys Subjected to Large-Strain Cold-to-Warm Deformation. Metals, 2022, 12, 454.	1.0	8

#	Article	IF	Citations
145	Deformation Behavior of High-Mn TWIP Steels Processed by Warm-to-Hot Working. Metals, 2018, 8, 415.	1.0	7
146	Effect of Intense Plastic Straining and Subsequent Heat Treatment on Mechanical Properties of an Al-Li-Mg-Sc-Zr Alloy. Advanced Materials Research, 0, 89-91, 389-394.	0.3	6
147	Superplastic behavior of friction-stir welded Alâ€“Mgâ€“Scâ€“Zr alloy in ultrafine-grained condition. Transactions of Nonferrous Metals Society of China, 2022, 32, 1083-1095.	1.7	6
148	Effect of Rolling on Mechanical Properties and Fatigue Behavior of an Al-Mg-Sc-Zr Alloy. Materials Science Forum, 0, 794-796, 331-336.	0.3	5
149	Hot Deformation and Dynamic Recrystallization of 18%Mn Twinningâ€Induced Plasticity Steels. Advanced Engineering Materials, 2020, 22, 2000098.	1.6	5
150	Effect of the Thermo-Mechanical Processing on the Impact Toughness of a 12% Cr Martensitic Steel with Co, Cu, W, Mo and Ta Doping. Metals, 2022, 12, 3.	1.0	5
151	The Role of Deformation Banding in Grain Refinement under ECAP. Materials Science Forum, 0, 783-786, 2641-2646.	0.3	4
152	Microstructure Evolution during LCF of a 10%Cr Steel at Room Temperature. Materials Science Forum, 0, 879, 1311-1316.	0.3	4
153	Deformation Microstructures and Mechanical Properties of an Austenitic Stainless Steel Subjected to Warm Rolling. Materials Science Forum, 0, 879, 1414-1419.	0.3	4
154	The Portevinâ€“Le Chatelier effect in an Al-Mg alloy. AIP Conference Proceedings, 2016, , .	0.3	4
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156	Effect of Pre-Strain Rolling on Annealing Behavior of Friction-Stir Welded AA6061-T6 Aluminum Alloy. Defect and Diffusion Forum, 0, 385, 355-358.	0.4	4
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