Ian Baker

List of Publications by Year
in descending order

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325 papers	9,546 citations	50170 46 h-index	58464 82 g-index
337 all docs	337 docs citations	337 times ranked	6844 citing authors

#	Article	IF	Citations
1	Global warming releases microplastic legacy frozen in Arctic Sea ice. Earth's Future, 2014, 2, 315-320.	2.4	720
2	The effect of interstitial carbon on the mechanical properties and dislocation substructure evolution in Fe40.4Ni11.3Mn34.8Al7.5Cr6 high entropy alloys. Acta Materialia, 2016, 120, 228-239.	3.8	373
3	An assessment on the future development of high-entropy alloys: Summary from a recent workshop. Intermetallics, 2015, 66, 67-76.	1.8	355
4	MAGNETIC NANOPARTICLE HYPERTHERMIA IN CANCER TREATMENT. Nano LIFE, 2010, 01, 17-32.	0.6	295
5	Effect of cooling rate on hardness of FeAl and NiAl. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 2281-2282.	1.4	210
6	Grain boundary accommodation of slip in Ni3Al containing boron. Acta Metallurgica, 1986, 34, 1395-1399.	2.1	205
7	The effect of carbon on the microstructures, mechanical properties, and deformation mechanisms of thermo-mechanically treated Fe40.4Ni11.3Mn34.8Al7.5Cr6 high entropy alloys. Acta Materialia, 2017, 126, 346-360.	3.8	200
8	Mechanical properties of FeAl. International Materials Reviews, 1997, 42, 181-205.	9.4	180
9	A review of the mechanical properties of B2 compounds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 192-193, 1-13.	2.6	156
10	Structural and magnetic properties of nanostructured Mnâ€“Alâ€“C magnetic materials. Journal of Magnetism and Magnetic Materials, 2007, 308, 214-226.	1.0	139
11	Flow and fracture of Feî—¸Al. Materials Science and Engineering, 1987, 96, 147-158.	0.1	126
12	Climate change and forest fires synergistically drive widespread melt events of the Greenland Ice Sheet. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7964-7967.	3.3	122
13	Interstitial strengthening of a f.c.c. FeNiMnAlCr high entropy alloy. Materials Letters, 2016, 180, 153-156.	1.3	107
14	The effect of grain size on the yield strength of FeAl and NiAl. Acta Metallurgica Et Materialia, 1991, 39, 1637-1644.	1.9	104
15	Contact temperatures and their influence on wear during pin-on-disk tribotesting. Tribology International, 2015, 82, 534-542.	3.0	98
16	Surface engineering of core/shell iron/iron oxide nanoparticles from microemulsions for hyperthermia. Materials Science and Engineering C, 2010, 30, 92-97.	3.8	97
17	The effect of boron on the chemistry of grain boundaries in stoichiometric Ni₃Al. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1988, 57, 379-385.	0.6	92
18	Magnetic properties and thermal ordering of mechanically alloyed Feâ€“40at% Al. Intermetallics, 2006, 14, 396-405.	1.8	85

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19	A model for the yield strength anomaly of Feâ€”Al. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 737-750.	0.8	84
20	Towards an integrated materials characterization toolbox. Journal of Materials Research, 2011, 26, 1341-1383.	1.2	84
21	Heat deposition in iron oxide and iron nanoparticles for localized hyperthermia. Journal of Applied Physics, 2006, 99, 08H106.	1.1	79
22	Recrystallization of a novel two-phase FeNiMnAlCr high entropy alloy. Journal of Alloys and Compounds, 2016, 656, 458-464.	2.8	76
23	Eutectic/eutectoid multi-principle component alloys: A review. Materials Characterization, 2019, 147, 545-557.	1.9	76
24	Dislocation-grain boundary interactions in ice crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 71, 15-42.	0.8	75
25	The influence of vacancy concentration on the mechanical behavior of Fe-40Al. Intermetallics, 1998, 6, 167-175.	1.8	71
26	Observation of impurities in ice. Microscopy Research and Technique, 2001, 55, 198-207.	1.2	70
27	Magnetic nanoparticles with high specific absorption rate of electromagnetic energy at low field strength for hyperthermia therapy. Journal of Applied Physics, 2015, 117, 094302.	1.1	69
28	The effect of boron on the lattice properties of Ni3Al. Acta Metallurgica, 1988, 36, 493-499.	2.1	66
29	The temperature dependence of the flow and fracture of Fe-40Al. Scripta Metallurgica Et Materialia, 1993, 28, 1411-1416.	1.0	66
30	Making EBSD on water ice routine. Journal of Microscopy, 2015, 259, 237-256.	0.8	64
31	Room temperature deformation behavior of multiphase Niî—‚20at.%Alî—‚30at.%Fe and its constituent phases. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 131, 27-37.	2.6	63
32	Observation of â€ˆ001â€‰ dislocations and a mechanism for transgranular fracture on {001} in FeAl. Acta Metallurgica Et Materialia, 1991, 39, 1011-1017.	1.9	62
33	The effect of temperature and Fe: Al ratio on the flow and fracture of FeAl. Acta Metallurgica Et Materialia, 1995, 43, 1723-1730.	1.9	62
34	Nitriding of a high entropy FeNiMnAlCr alloy. Journal of Alloys and Compounds, 2015, 645, 376-381.	2.8	61
35	Dry sliding wear of NiAl. Wear, 1996, 192, 241-247.	1.5	60
36	On the mechanism of the paramagnetic-to-ferromagnetic transition in Fe-Al. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 449-461.	0.6	58

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37	Accelerated precipitation in the AFA stainless steel Feâ€“20Crâ€“30Niâ€“2Nbâ€“5Al via cold working. Intermetallics, 2014, 53, 120-128.	1.8	57
38	The microstructural location of impurities in ice. Canadian Journal of Physics, 2003, 81, 1-9.	0.4	55
39	Effect of Ti content on the microstructure and mechanical behavior of (Fe36Ni18Mn33Al13)100â^'xTix high entropy alloys. Intermetallics, 2016, 75, 79-87.	1.8	54
40	Selective laser melted AlSi10Mg alloy under melting mode transition: Microstructure evolution, nanomechanical behaviors and tensile properties. Journal of Alloys and Compounds, 2021, 873, 159823.	2.8	54
41	The effect of strain rate on the room-temperature ductility of FeAl. Scripta Metallurgica Et Materialia, 1991, 25, 2577-2580.	1.0	53
42	Dynamic observations of dislocation generation at grain boundaries in ice. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 1261-1276.	0.8	53
43	Microstructure and Magnetic Properties of Bulk Nanocrystalline MnAl. Metals, 2014, 4, 20-27.	1.0	49
44	Impact of physical properties and accumulation rate on pore close-off in layered firn. Cryosphere, 2014, 8, 91-105.	1.5	49
45	The microstructure of extruded Fe-Al. Journal of Materials Science, 1989, 24, 4246-4252.	1.7	48
46	Recovery, recrystallization and grain growth in ordered alloys. Intermetallics, 2000, 8, 1183-1196.	1.8	48
47	Feâ•Fe oxide nanocomposite particles with large specific absorption rate for hyperthermia. Applied Physics Letters, 2007, 90, 233112.	1.5	48
48	Nanostructured Mnâ€“Al permanent magnets produced by mechanical milling. Journal of Applied Physics, 2006, 99, 08E902.	1.1	46
49	Effects of environment on the sliding tribological behaviors of Zr-based bulk metallic glass. Intermetallics, 2012, 25, 115-125.	1.8	46
50	The effect of aging on the microstructure and mechanical behavior of the alumina-forming austenitic stainless steel Feâ€“20Crâ€“30Niâ€“2Nbâ€“5Al. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 270-276.	2.6	46
51	The Structure of Extruded NiAl. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1984, 15, 1129-1136.	1.1	45
52	The effects of both deviation from stoichiometry and boron on grain boundaries in Ni₃Al. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 62, 659-676.	0.6	45
53	Long range order and defect concentrations in NiAl and CoAl. Acta Metallurgica Et Materialia, 1994, 42, 1535-1540.	1.9	45
54	A new high-strength spinodal alloy. Journal of Materials Research, 2005, 20, 791-795.	1.2	45

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55	Using electron backscatter diffraction patterns to examine recrystallization in polar ice sheets. Journal of Glaciology, 2006, 52, 546-557.	1.1	45
56	The Effect of Temperature on Dislocation Structures in Ni3Al. Physica Status Solidi A, 1985, 89, 163-172.	1.7	44
57	The room temperature strengthening effect of boron as a function of aluminum concentration in FeAl. Intermetallics, 1998, 6, 177-183.	1.8	44
58	Tribological studies of a Zr-based bulk metallic glass. Intermetallics, 2013, 35, 25-32.	1.8	44
59	Microband induced plasticity and the temperature dependence of the mechanical properties of a carbon-doped FeNiMnAlCr high entropy alloy. Materials Characterization, 2018, 139, 373-381.	1.9	44
60	On the room-temperature deformation mechanisms of lamellar-structured Fe30Ni20Mn35Al15. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3998-4008.	2.6	42
61	Microstructural evolution of fine-grained layers through the firn column at Summit, Greenland. Journal of Glaciology, 2011, 57, 755-762.	1.1	42
62	Effects of boron and grain size on the strain-rate sensitivity of Fe-45Al. Scripta Metallurgica Et Materialia, 1994, 30, 863-868.	1.0	41
63	A comparison ofÏ„-MnAl particulates produced via different routes. Journal of Physics Condensed Matter, 2014, 26, 064201.	0.7	41
64	Interstitials in f.c.c. High Entropy Alloys. Metals, 2020, 10, 695.	1.0	41
65	On Intrinsic Stacking Faults in Polycrystalline Ni3Al. Physica Status Solidi A, 1984, 85, 481-490.	1.7	40
66	Displacement Fringes in FeAl. Physica Status Solidi A, 1986, 96, 185-190.	1.7	40
67	The effects of chromium on the microstructure and tensile behavior of Fe30Ni20Mn35Al15. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 586, 45-52.	2.6	40
68	Slip-plane disordering in stoichiometric Ni₃Al. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 63, 319-335.	0.8	39
69	The chemistry of grain boundaries in Greenland ice. Journal of Glaciology, 2000, 46, 703-706.	1.1	39
70	Determining the orientations of ice crystals using electron backscatter patterns. Microscopy Research and Technique, 2004, 63, 183-187.	1.2	39
71	Effects of annealing and thermo-mechanical treatment on the microstructures and mechanical properties of a carbon-doped FeNiMnAl multi-component alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 101-110.	2.6	39
72	Room temperature tensile ductility in polycrystalline B2 Ni-30Al-20Fe. Scripta Metallurgica, 1989, 23, 897-900.	1.2	38

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73	Evolution of individual snowflakes during metamorphism. Journal of Geophysical Research, 2010, 115, .	3.3	38
74	Effect of melting modes on microstructure and tribological properties of selective laser melted AlSi10Mg alloy. Virtual and Physical Prototyping, 2020, 15, 570-582.	5.3	38
75	Formation of L12-structured Ni3Si. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 283-292.	1.4	37
76	Microstructure and room-temperature mechanical properties of Fe30Ni20Mn35Al15. Materials Characterization, 2008, 59, 1546-1549.	1.9	36
77	The strength and ductility of Ni3Si. Acta Metallurgica Et Materialia, 1990, 38, 207-213.	1.9	35
78	Ternary atom site location in L12-structured intermetallic compounds. Journal of Materials Research, 1991, 6, 943-949.	1.2	34
79	Effect of chromium on the environmental sensitivity of FeAl at room temperature. Scripta Metallurgica Et Materialia, 1992, 27, 1823-1828.	1.0	34
80	Observation of the microstructural evolution of snow under uniaxial compression using Xâ€ray computed microtomography. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,371.	1.2	34
81	Lamellar coarsening in Fe28Ni18Mn33Al21 and its influence on room temperature tensile behavior. Acta Materialia, 2015, 95, 124-131.	3.8	34
82	Magneticâ€Nanoparticleâ€Based Immunoassaysâ€onâ€Chip: Materials Synthesis, Surface Functionalization, and Cancer Cell Screening. Advanced Functional Materials, 2016, 26, 3953-3972.	7.8	34
83	Thermally induced dislocation loops in polycrystalline ice. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 71, 1-14.	0.8	33
84	Characterization of high-strength highâ€'nitrogen austenitic stainless steel synthesized from nitrided powders by spark plasma sintering. Materials Characterization, 2019, 152, 76-84.	1.9	33
85	Boron-induced grain boundary accommodation of slip in Ni3Al. Scripta Metallurgica, 1985, 19, 1497-1498.	1.2	32
86	Evolution of the microstructure and mechanical properties of eutectic Fe30Ni20Mn35Al15. Journal of Materials Science, 2011, 46, 2009-2017.	1.7	31
87	Superior strength-ductility synergy in a novel tailored nanoparticles-strengthened medium-entropy alloy. Scripta Materialia, 2022, 207, 114278.	2.6	31
88	Effect of accelerating voltage on planar and axial channeling in ordered intermetallic compounds. Journal of Materials Research, 1992, 7, 2119-2125.	1.2	30
89	Imaging brine and air inclusions in sea ice using micro-X-ray computed tomography. Journal of Glaciology, 2009, 55, 1113-1115.	1.1	30
90	Precipitation kinetics during aging of an alumina-forming austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 147-155.	2.6	30

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91	Microstructure, mechanical properties and wear of Niâ€“Alâ€“Fe alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 325, 1-8.	2.6	29
92	Dry sliding tribological behavior of Zr-based bulk metallic glass. Transactions of Nonferrous Metals Society of China, 2012, 22, 585-589.	1.7	29
93	Directional annealing of cold-rolled copper single crystals. Acta Materialia, 2002, 50, 805-813.	3.8	28
94	The effect of hot zone velocity and temperature gradient on the directional recrystallization of polycrystalline nickel. Acta Materialia, 2002, 50, 4491-4497.	3.8	28
95	In situstraining of Fe-Al in a transmission electron microscope. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 479-489.	0.8	27
96	SEM/EDS observations of impurities in polar ice: artifacts or not?. Journal of Glaciology, 2003, 49, 184-190.	1.1	27
97	An EBSP study of directionally recrystallized cold-rolled nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 392, 8-22.	2.6	27
98	The microstructure of meteoric ice from Vostok, Antarctica. Journal of Glaciology, 2007, 53, 41-62.	1.1	27
99	Microstructural evolution of spinodally formed Fe35Ni15Mn25Al25. Intermetallics, 2009, 17, 886-893.	1.8	27
100	Control of grain boundary character distribution and its effects on the deformation of Feâ€“6.5 wt.% Si. Journal of Alloys and Compounds, 2015, 639, 40-44.	2.8	27
101	Direct versus indirect particle strengthening in a strong, ductile FeNiMnAlTi high entropy alloy. Materials Characterization, 2017, 132, 156-161.	1.9	27
102	Effect of boron and carbon addition on microstructure and mechanical properties of the aged gamma-prime strengthened alumina-forming austenitic alloys. Intermetallics, 2017, 90, 36-49.	1.8	26
103	Improving the ductility of intermetallic compounds by particle-induced slip homogenization. Scripta Materialia, 1999, 41, 409-414.	2.6	25
104	Microstructural evolution during directional annealing. Acta Materialia, 2002, 50, 3347-3359.	3.8	25
105	SEM/EDS comparison of polar and seasonal temperate ice. Microscopy Research and Technique, 2003, 62, 49-61.	1.2	25
106	Magnetic Nanoparticles with High Specific Absorption Rate at Low Alternating Magnetic Field. Nano LIFE, 2015, 05, 1550002.	0.6	25
107	Effect of fine second phase particles on deformation structure in cold rolled copper single crystals. Metal Science, 1983, 17, 459-468.	0.7	24
108	The effect of annealing on Niî—Alî—Fe B2 compounds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 152, 258-263.	2.6	24

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109	Experiments and simulations of directionally annealed ODS MA 754. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 353-363.	2.6	24
110	Effect of Al content on the microstructure and mechanical behavior of two-phase FeNiMnAl alloys. Journal of Materials Science, 2014, 49, 1973-1983.	1.7	24
111	Observation of sulfate crystallites in Vostok accretion ice. Materials Characterization, 2002, 48, 263-269.	1.9	23
112	Investigating the thermophysical properties of the iceâ€“snow interface under a controlled temperature gradient. Cold Regions Science and Technology, 2015, 120, 157-167.	1.6	23
113	The effects of carbon on the phase stability and mechanical properties of heat-treated FeNiMnCrAl high entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 59-73.	2.6	23
114	The effect of grain size on the stored energy of cold work as a function of strain for polycrystalline nickel. Scripta Metallurgica Et Materialia, 1995, 32, 167-171.	1.0	22
115	On the yield stress anomaly in stoichiometric FeAl. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 239-240, 109-117.	2.6	22
116	The paramagnetic-to-ferromagnetic transition in B2-structured Fe-Al single crystals: Experiments and calculations. Philosophical Magazine, 2003, 83, 295-313.	0.7	22
117	Microemulsion Synthesis of Iron Core/Iron Oxide Shell Magnetic Nanoparticles and Their Physicochemical Properties. Materials Research Society Symposia Proceedings, 2012, 1416, 61.	0.1	22
118	Effects of environment on dry sliding wear of powder metallurgical Ti-47Al-2Cr-2Nb-0.2W. Intermetallics, 2014, 53, 10-19.	1.8	22
119	High temperature deformation of Laves phase precipitates in alumina-forming austenitic stainless steels. Materials Letters, 2017, 195, 108-111.	1.3	22
120	Preliminary creep testing of the alumina-forming austenitic stainless steel Fe-20Cr-30Ni-2Nb-5Al. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 492-498.	2.6	22
121	Elevated temperature deformation behaviour of multi-phase Ni-20 at % Al-30 at % Fe and its constituent phases. Journal of Materials Science, 1996, 31, 4055-4065.	1.7	21
122	Identification of a calcium phosphoserine coordination network in an adhesive organo-apatitic bone cement system. Acta Biomaterialia, 2020, 105, 280-289.	4.1	21
123	Annealing Studies of B2 FeAl. Materials Research Society Symposia Proceedings, 1988, 133, 755.	0.1	20
124	The orientation dependence of the strength of ice single crystals. Journal of Glaciology, 2000, 46, 41-44.	1.1	20
125	The structure and mechanical properties of Fe2AlMn single crystals. Philosophical Magazine, 2004, 84, 3169-3194.	0.7	20
126	Creep of granular ice with and without dispersed particles. Journal of Glaciology, 2005, 51, 210-218.	1.1	20

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127	The effect of thermo-mechanical treatment on the high temperature tensile behavior of an alumina-forming austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 795-804.	2.6	20
128	The effect of environment and strain rate on the room temperature tensile properties of FeAl single crystals. Intermetallics, 2001, 9, 57-65.	1.8	19
129	The structure and chemistry of 94 m Greenland Ice Sheet Project 2 ice. Annals of Glaciology, 2002, 35, 224-230.	2.8	19
130	Cryogenic EBSD reveals structure of directionally solidified iceâ€“polymer composite. Materials Characterization, 2014, 93, 184-190.	1.9	19
131	Manganese-based permanent magnet materials. Progress in Materials Science, 2022, 124, 100872.	16.0	19
132	Mechanical properties of FeAl. International Materials Reviews, 1997, 42, 181-205.	9.4	19
133	The dislocation structure in L1₂ordered alloy Ni₃Ge. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 70, 1013-1025.	0.8	18
134	On the yield anomaly in stoichiometric CoTi. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 206-212.	2.6	18
135	The microstructure of near-equiatomic B2/f.c.c. FeNiMnAl alloys. Materials Characterization, 2011, 62, 952-958.	1.9	18
136	Advanced microstructural characterization of four East Antarctic firn/ice cores. Journal of Glaciology, 2011, 57, 796-810.	1.1	18
137	The effects of stoichiometry on the dry sliding wear of FeAl. Intermetallics, 2013, 40, 19-27.	1.8	18
138	Microstructural characterization of ice cores. Annals of Glaciology, 2005, 42, 441-444.	2.8	17
139	Effects of Degree of Deformation and Deformation Temperature on Primary Recrystallization Textures in Polycrystalline Nickel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2815-2824.	1.1	17
140	The Effects of Cold Work on the Microstructure and Mechanical Properties of Intermetallic Strengthened Alumina-Forming Austenitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3773-3785.	1.1	17
141	Orientation relationships of Laves phase and NiAl particles in an AFA stainless steel. Philosophical Magazine, 2015, 95, 4078-4094.	0.7	17
142	Microstructural evolution of Feâ€“20Crâ€“30Niâ€“2Nbâ€“5Al AFA steel during creep at 760ÂÂ°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 806, 140602.	2.6	17
143	Dislocations and grain boundaries in polycrystalline ice: a preliminary study by synchrotron X-ray topography. Journal of Materials Science, 1992, 27, 2719-2725.	1.7	16
144	The effects of local versus bulk disorder on the magnetic behavior of stoichiometric Ni3Al. Intermetallics, 2007, 15, 419-427.	1.8	16

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145	Î±- andÎ²-Mn precipitates in the spinodal Fe30Ni20Mn25Al25alloy. Philosophical Magazine, 2007, 87, 5639-5656.	0.7	16
146	Isothermal annealing of cold-rolled high-purity nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 476, 46-59.	2.6	16
147	Effects of impurities and their redistribution during recrystallization of ice crystals. Journal of Glaciology, 2008, 54, 362-370.	1.1	16
148	Dry sliding wear of eutectic Alâ€“Si. Journal of Materials Science, 2010, 45, 969-978.	1.7	16
149	A comparison of the dry sliding wear of single-phase f.c.c. carbon-doped Fe40.4Ni11.3Mn34.8Al7.5Cr6 and CoCrFeMnNi high entropy alloys with 316 stainless steel. Materials Characterization, 2020, 170, 110693.	1.9	16
150	Improving the Low Temperature Ductility of NiAl. Materials Research Society Symposia Proceedings, 1988, 133, 633.	0.1	15
151	Room Temperature Fracture of FeCo. Materials Research Society Symposia Proceedings, 1992, 288, 501.	0.1	15
152	The effect of boron on the Hall-Petch behavior of Fe-45Al. Scripta Materialia, 1996, 34, 1219-1223.	2.6	15
153	The effects of sulfuric acid on the mechanical properties of ice single crystals. Journal of Glaciology, 2000, 46, 239-243.	1.1	15
154	The activation energies of antiphase-boundary tube annihilation in Fe-Al. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 2239-2247.	0.8	15
155	Simulation of microstructural evolution during directional annealing with variable boundary energy and mobility. Acta Materialia, 2003, 51, 2755-2764.	3.8	15
156	Antibody-mediated targeting of iron oxide nanoparticles to the folate receptor alpha increases tumor cell association in vitro and in vivo. International Journal of Nanomedicine, 2015, 10, 2595.	3.3	15
157	Dislocations in Fe-45 at.% Al + B after high-temperature deformation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 72, 1301-1310.	0.8	14
158	Strain-induced ferromagnetism in FeAl single crystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 334-338.	2.6	14
159	Imaging dislocations in ice. Microscopy Research and Technique, 2003, 62, 70-82.	1.2	14
160	The effect of particles on creep rate and microstructures of granular ice. Journal of Glaciology, 2008, 54, 533-537.	1.1	14
161	Evolution of the specific surface area of snow during highâ€temperature gradient metamorphism. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,690.	1.2	14
162	The Effects of H₂SO₄ on the Mechanical Behavior and Microstructural Evolution of Polycrystalline Ice. Journal of Geophysical Research F: Earth Surface, 2018, 123, 535-556.	1.0	14

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163	Effect of soluble particles on microstructural evolution during directional recrystallization. Acta Materialia, 2020, 188, 288-301.	3.8	14
164	Dissimilar electron beam welding of the medium-entropy alloy (NiCoCr)94Al3Ti3 to 304 stainless steel. Scripta Materialia, 2022, 214, 114659.	2.6	14
165	Annealing of Cold-Rolled Fe-40A1 Single Crystals. Materials Research Society Symposia Proceedings, 1996, 460, 367.	0.1	13
166	Dislocation identification and in situ straining in the spinodal Fe₃₀Ni₂₀Mn₂₅Al₂₅ alloy. Microscopy Research and Technique, 2008, 71, 489-496.	1.2	13
167	Structural evolution during iceâ€sphere sintering. Hydrological Processes, 2010, 24, 2034-2040.	1.1	13
168	Environmental embrittlement of two-phase Fe30Ni20Mn35Al15. Intermetallics, 2011, 19, 1533-1537.	1.8	13
169	The impact of ice layers on gas transport through firn at the North Greenland Eemian Ice Drilling (NEEM) site, Greenland. Cryosphere, 2014, 8, 1801-1806.	1.5	13
170	Microstructural characterization of snow, firn and ice. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180162.	1.6	13
171	The formation mechanism, growth, and effect on the mechanical properties of precipitate free zones in the alumina-forming austenitic stainless steel Feâ€“20Crâ€“30Niâ€“2Nbâ€“5Al during creep. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141561.	2.6	13
172	The effect of Al/Ti ratio on the evolution of precipitates and their effects on mechanical properties for Ni35(CoCrFe)55AlxTi10â^'x high entropy alloys. Journal of Alloys and Compounds, 2022, 906, 164291.	2.8	13
173	Some comments on dislocation bowing and partial separation duringin-situstraining of Î³â€²Ni₃Al. Philosophical Magazine Letters, 1987, 55, 3-6.	0.5	12
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