

Ian Baker

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321
papers

7,640
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43
h-index

73
g-index

337
ext. papers

8,549
ext. citations

4.1
avg, IF

6.37
L-index

#	Paper	IF	Citations
321	Global warming releases microplastic legacy frozen in Arctic Sea ice. <i>Earth's Future</i> , 2014 , 2, 315-320	7.9	539
320	An assessment on the future development of high-entropy alloys: Summary from a recent workshop. <i>Intermetallics</i> , 2015 , 66, 67-76	3.5	267
319	The effect of interstitial carbon on the mechanical properties and dislocation substructure evolution in Fe _{40.4} Ni _{11.3} Mn _{34.8} Al _{7.5} Cr ₆ high entropy alloys. <i>Acta Materialia</i> , 2016 , 120, 228-239	8.4	250
318	MAGNETIC NANOPARTICLE HYPERTHERMIA IN CANCER TREATMENT. <i>Nano LIFE</i> , 2010 , 1,	0.9	209
317	Effect of cooling rate on hardness of FeAl and NiAl. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 2281-2282		202
316	Grain boundary accommodation of slip in Ni ₃ Al containing boron. <i>Acta Metallurgica</i> , 1986 , 34, 1395-1399		194
315	Mechanical properties of FeAl. <i>International Materials Reviews</i> , 1997 , 42, 181-205	16.1	160
314	The effect of carbon on the microstructures, mechanical properties, and deformation mechanisms of thermo-mechanically treated Fe _{40.4} Ni _{11.3} Mn _{34.8} Al _{7.5} Cr ₆ high entropy alloys. <i>Acta Materialia</i> , 2017 , 126, 346-360	8.4	139
313	A review of the mechanical properties of B2 compounds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 192-193, 1-13	5.3	138
312	Structural and magnetic properties of nanostructured MnAlC magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 308, 214-226	2.8	119
311	Flow and fracture of Fe ₃ Al. <i>Materials Science and Engineering</i> , 1987 , 96, 147-158		117
310	Climate change and forest fires synergistically drive widespread melt events of the Greenland Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7964-7969	11.5	96
309	The effect of grain size on the yield strength of FeAl and NiAl. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 1637-1644		93
308	The effect of boron on the chemistry of grain boundaries in stoichiometric Ni ₃ Al. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1988 , 57, 379-385		90
307	Interstitial strengthening of a f.c.c. FeNiMnAlCr high entropy alloy. <i>Materials Letters</i> , 2016 , 180, 153-156	3.3	86
306	Surface Engineering of Core/Shell Iron/Iron Oxide Nanoparticles from Microemulsions for Hyperthermia. <i>Materials Science and Engineering C</i> , 2010 , 30, 92-97	8.3	85
305	A model for the yield strength anomaly of FeAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998 , 77, 737-750		77

304	Towards an integrated materials characterization toolbox. <i>Journal of Materials Research</i> , 2011 , 26, 1341-1383	3.83	75
303	Contact temperatures and their influence on wear during pin-on-disk tribotesting. <i>Tribology International</i> , 2015 , 82, 534-542	4.9	71
302	Magnetic properties and thermal ordering of mechanically alloyed Fe ₄₀ at% Al. <i>Intermetallics</i> , 2006 , 14, 396-405	3.5	71
301	Heat deposition in iron oxide and iron nanoparticles for localized hyperthermia. <i>Journal of Applied Physics</i> , 2006 , 99, 08H106	2.5	69
300	The influence of vacancy concentration on the mechanical behavior of Fe-40Al. <i>Intermetallics</i> , 1998 , 6, 167-175	3.5	67
299	Observation of impurities in ice. <i>Microscopy Research and Technique</i> , 2001 , 55, 198-207	2.8	64
298	The temperature dependence of the flow and fracture of Fe-40Al. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 28, 1411-1416		63
297	Room temperature deformation behavior of multiphase Ni ₂₀ at.%Al ₃₀ at.%Fe and its constituent phases. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 131, 27-37	5.3	60
296	The effect of boron on the lattice properties of Ni ₃ Al. <i>Acta Metallurgica</i> , 1988 , 36, 493-499		60
295	Observation of <001> dislocations and a mechanism for transgranular fracture on {001} in FeAl. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 1011-1017		58
294	Recrystallization of a novel two-phase FeNiMnAlCr high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 458-464	5.7	57
293	The effect of temperature and Fe: Al ratio on the flow and fracture of FeAl. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 1723-1730		56
292	Dry sliding wear of NiAl. <i>Wear</i> , 1996 , 192, 241-247	3.5	55
291	Making EBSD on water ice routine. <i>Journal of Microscopy</i> , 2015 , 259, 237-56	1.9	52
290	The microstructural location of impurities in ice. <i>Canadian Journal of Physics</i> , 2003 , 81, 1-9	1.1	51
289	On the mechanism of the paramagnetic-to-ferromagnetic transition in Fe-Al. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999 , 79, 449-461		51
288	The effect of strain rate on the room-temperature ductility of FeAl. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 2577-2580		51
287	Magnetic nanoparticles with high specific absorption rate of electromagnetic energy at low field strength for hyperthermia therapy. <i>Journal of Applied Physics</i> , 2015 , 117, 094302	2.5	47

286	Dislocation-grain boundary interactions in ice crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995 , 71, 15-42		46
285	Eutectic/eutectoid multi-principle component alloys: A review. <i>Materials Characterization</i> , 2019 , 147, 545-557	3.9	45
284	Accelerated precipitation in the AFA stainless steel Fe ₂₀ Cr ₃₀ Ni ₂₀ Nb ₅ Al via cold working. <i>Intermetallics</i> , 2014 , 53, 120-128	3.5	44
283	Nitriding of a high entropy FeNiMnAlCr alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 645, 376-381	5.7	44
282	The microstructure of extruded Fe-Al. <i>Journal of Materials Science</i> , 1989 , 24, 4246-4252	4.3	44
281	Using electron backscatter diffraction patterns to examine recrystallization in polar ice sheets. <i>Journal of Glaciology</i> , 2006 , 52, 546-557	3.4	43
280	The Structure of Extruded NiAl. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1984 , 15, 1129-1136	2.3	43
279	The Effect of Temperature on Dislocation Structures in Ni ₃ Al. <i>Physica Status Solidi A</i> , 1985 , 89, 163-172		43
278	Impact of physical properties and accumulation rate on pore close-off in layered firn. <i>Cryosphere</i> , 2014 , 8, 91-105	5.5	42
277	The room temperature strengthening effect of boron as a function of aluminum concentration in FeAl. <i>Intermetallics</i> , 1998 , 6, 177-183	3.5	42
276	Fe ₃ O ₄ oxide nanocomposite particles with large specific absorption rate for hyperthermia. <i>Applied Physics Letters</i> , 2007 , 90, 233112	3.4	42
275	The effects of both deviation from stoichiometry and boron on grain boundaries in Ni ₃ Al. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990 , 62, 659-676		42
274	Microstructure and Magnetic Properties of Bulk Nanocrystalline MnAl. <i>Metals</i> , 2014 , 4, 20-27	2.3	41
273	Recovery, recrystallization and grain growth in ordered alloys. <i>Intermetallics</i> , 2000 , 8, 1183-1196	3.5	41
272	Long range order and defect concentrations in NiAl and CoAl. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 1535-1540		41
271	A new high-strength spinodal alloy. <i>Journal of Materials Research</i> , 2005 , 20, 791-795	2.5	39
270	The chemistry of grain boundaries in Greenland ice. <i>Journal of Glaciology</i> , 2000 , 46, 703-706	3.4	39
269	Slip-plane disordering in stoichiometric Ni ₃ Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991 , 63, 319-335		39

268	Effect of Ti content on the microstructure and mechanical behavior of (Fe ₃₆ Ni ₁₈ Mn ₃₃ Al ₁₃) _{100-x} Ti _x high entropy alloys. <i>Intermetallics</i> , 2016 , 75, 79-87	3.5	38
267	Effects of environment on the sliding tribological behaviors of Zr-based bulk metallic glass. <i>Intermetallics</i> , 2012 , 25, 115-125	3.5	38
266	Microstructural evolution of fine-grained layers through the firn column at Summit, Greenland. <i>Journal of Glaciology</i> , 2011 , 57, 755-762	3.4	38
265	Nanostructured MnAl permanent magnets produced by mechanical milling. <i>Journal of Applied Physics</i> , 2006 , 99, 08E902	2.5	38
264	Room temperature tensile ductility in polycrystalline B2 Ni-30Al-20Fe. <i>Scripta Metallurgica</i> , 1989 , 23, 897-900		38
263	Displacement Fringes in FeAl. <i>Physica Status Solidi A</i> , 1986 , 96, 185-190		38
262	Effects of boron and grain size on the strain-rate sensitivity of Fe-45Al. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 30, 863-868		37
261	On Intrinsic Stacking Faults in Polycrystalline Ni ₃ Al. <i>Physica Status Solidi A</i> , 1984 , 85, 481-490		37
260	A comparison of MnAl particulates produced via different routes. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 064201	1.8	36
259	Evolution of individual snowflakes during metamorphism. <i>Journal of Geophysical Research</i> , 2010 , 115,		36
258	On the room-temperature deformation mechanisms of lamellar-structured Fe ₃₀ Ni ₂₀ Mn ₃₅ Al ₁₅ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3998-4008	5.3	36
257	Determining the orientations of ice crystals using electron backscatter patterns. <i>Microscopy Research and Technique</i> , 2004 , 63, 183-7	2.8	36
256	Tribological studies of a Zr-based bulk metallic glass. <i>Intermetallics</i> , 2013 , 35, 25-32	3.5	34
255	Ternary atom site location in L1 ₂ -structured intermetallic compounds. <i>Journal of Materials Research</i> , 1991 , 6, 943-949	2.5	34
254	The effect of aging on the microstructure and mechanical behavior of the alumina-forming austenitic stainless steel Fe ₂₀ Cr ₃₀ Ni ₂₀ Nb ₃₀ Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 627, 270-276	5.3	33
253	Microstructure and room-temperature mechanical properties of Fe ₃₀ Ni ₂₀ Mn ₃₅ Al ₁₅ . <i>Materials Characterization</i> , 2008 , 59, 1546-1549	3.9	33
252	The strength and ductility of Ni ₃ Si. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 207-213		33
251	Formation of L1 ₂ -structured Ni ₃ Si. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993 , 24, 283-292		31

250	Boron-induced grain boundary accommodation of slip in Ni ₃ Al. <i>Scripta Metallurgica</i> , 1985 , 19, 1497-1498		31
249	Effect of chromium on the environmental sensitivity of FeAl at room temperature. <i>Scripta Metallurgica Et Materialia</i> , 1992 , 27, 1823-1828		30
248	The effects of chromium on the microstructure and tensile behavior of Fe ₃₀ Ni ₂₀ Mn ₃₅ Al ₁₅ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 45-52	5.3	29
247	Magnetic-Nanoparticle-Based Immunoassays-on-Chip: Materials Synthesis, Surface Functionalization, and Cancer Cell Screening. <i>Advanced Functional Materials</i> , 2016 , 26, 3953-3972	15.6	28
246	Effects of annealing and thermo-mechanical treatment on the microstructures and mechanical properties of a carbon-doped FeNiMnAl multi-component alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 693, 101-110	5.3	27
245	Lamellar coarsening in Fe ₂₈ Ni ₁₈ Mn ₃₃ Al ₂₁ and its influence on room temperature tensile behavior. <i>Acta Materialia</i> , 2015 , 95, 124-131	8.4	27
244	Evolution of the microstructure and mechanical properties of eutectic Fe ₃₀ Ni ₂₀ Mn ₃₅ Al ₁₅ . <i>Journal of Materials Science</i> , 2011 , 46, 2009-2017	4.3	27
243	Imaging brine and air inclusions in sea ice using micro-X-ray computed tomography. <i>Journal of Glaciology</i> , 2009 , 55, 1113-1115	3.4	26
242	SEM/EDS observations of impurities in polar ice: artifacts or not?. <i>Journal of Glaciology</i> , 2003 , 49, 184-190	4	26
241	Microstructure, mechanical properties and wear of Ni ₃ AlBe alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 325, 1-8	5.3	26
240	Dynamic observations of dislocation generation at grain boundaries in ice. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993 , 67, 1261-1276		26
239	In situ straining of Fe-Al in a transmission electron microscope. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993 , 67, 479-489		26
238	Effect of accelerating voltage on planar and axial channeling in ordered intermetallic compounds. <i>Journal of Materials Research</i> , 1992 , 7, 2119-2125	2.5	26
237	Microband induced plasticity and the temperature dependence of the mechanical properties of a carbon-doped FeNiMnAlCr high entropy alloy. <i>Materials Characterization</i> , 2018 , 139, 373-381	3.9	25
236	Observation of the microstructural evolution of snow under uniaxial compression using X-ray computed microtomography. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,371-12,382	4.4	25
235	Microstructural evolution of spinodally formed Fe ₃₅ Ni ₁₅ Mn ₂₅ Al ₂₅ . <i>Intermetallics</i> , 2009 , 17, 886-893	3.5	25
234	The microstructure of meteoric ice from Vostok, Antarctica. <i>Journal of Glaciology</i> , 2007 , 53, 41-62	3.4	25
233	Improving the ductility of intermetallic compounds by particle-induced slip homogenization. <i>Scripta Materialia</i> , 1999 , 41, 409-414	5.6	25

232	The effect of hot zone velocity and temperature gradient on the directional recrystallization of polycrystalline nickel. <i>Acta Materialia</i> , 2002 , 50, 4491-4497	8.4	24
231	Interstitials in f.c.c. High Entropy Alloys. <i>Metals</i> , 2020 , 10, 695	2.3	23
230	SEM/EDS comparison of polar and seasonal temperate ice. <i>Microscopy Research and Technique</i> , 2003 , 62, 49-61	2.8	23
229	An EBSD study of directionally recrystallized cold-rolled nickel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 392, 8-22	5.3	23
228	The effect of annealing on Ni ₃ Al/Fe B2 compounds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992 , 152, 258-263	5.3	23
227	Control of grain boundary character distribution and its effects on the deformation of Fe-0.5 wt.% Si. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 40-44	5.7	22
226	Dry sliding tribological behavior of Zr-based bulk metallic glass. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 585-589	3.3	22
225	Effects of environment on dry sliding wear of powder metallurgical Ti-47Al-2Cr-2Nb-0.2W. <i>Intermetallics</i> , 2014 , 53, 10-19	3.5	21
224	Observation of sulfate crystallites in Vostok accretion ice. <i>Materials Characterization</i> , 2002 , 48, 263-269	3.9	21
223	Directional annealing of cold-rolled copper single crystals. <i>Acta Materialia</i> , 2002 , 50, 805-813	8.4	21
222	The paramagnetic-to-ferromagnetic transition in B2-structured Fe-Al single crystals: Experiments and calculations. <i>Philosophical Magazine</i> , 2003 , 83, 295-313	1.6	21
221	Characterization of high-strength high-nitrogen austenitic stainless steel synthesized from nitrated powders by spark plasma sintering. <i>Materials Characterization</i> , 2019 , 152, 76-84	3.9	20
220	The structure and mechanical properties of Fe ₂ AlMn single crystals. <i>Philosophical Magazine</i> , 2004 , 84, 3169-3194	1.6	20
219	Microstructural evolution during directional annealing. <i>Acta Materialia</i> , 2002 , 50, 3347-3359	8.4	20
218	Elevated temperature deformation behaviour of multi-phase Ni-20 at % Al-30 at % Fe and its constituent phases. <i>Journal of Materials Science</i> , 1996 , 31, 4055-4065	4.3	20
217	Precipitation kinetics during aging of an alumina-forming austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 667, 147-155	5.3	20
216	Magnetic Nanoparticles with High Specific Absorption Rate at Low Alternating Magnetic Field. <i>Nano LIFE</i> , 2015 , 5,	0.9	19
215	Investigating the thermophysical properties of the ice-snow interface under a controlled temperature gradient. <i>Cold Regions Science and Technology</i> , 2015 , 120, 157-167	3.8	19

214	Direct versus indirect particle strengthening in a strong, ductile FeNiMnAlTi high entropy alloy. <i>Materials Characterization</i> , 2017 , 132, 156-161	3.9	19
213	Effect of Al content on the microstructure and mechanical behavior of two-phase FeNiMnAl alloys. <i>Journal of Materials Science</i> , 2014 , 49, 1973-1983	4.3	19
212	On the yield stress anomaly in stoichiometric FeAl. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 239-240, 109-117	5.3	19
211	Experiments and simulations of directionally annealed ODS MA 754. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 492, 353-363	5.3	19
210	The effect of grain size on the stored energy of cold work as a function of strain for polycrystalline nickel. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 32, 167-171		19
209	Effect of fine second phase particles on deformation structure in cold rolled copper single crystals. <i>Metal Science</i> , 1983 , 17, 459-468		19
208	The structure and chemistry of 94 m Greenland Ice Sheet Project 2 ice. <i>Annals of Glaciology</i> , 2002 , 35, 224-230	2.5	18
207	Creep of granular ice with and without dispersed particles. <i>Journal of Glaciology</i> , 2005 , 51, 210-218	3.4	18
206	Selective laser melted AlSi10Mg alloy under melting mode transition: Microstructure evolution, nanomechanical behaviors and tensile properties. <i>Journal of Alloys and Compounds</i> , 2021 , 873, 159823	5.7	18
205	Microstructural characterization of ice cores. <i>Annals of Glaciology</i> , 2005 , 42, 441-444	2.5	17
204	The effect of environment and strain rate on the room temperature tensile properties of FeAl single crystals. <i>Intermetallics</i> , 2001 , 9, 57-65	3.5	17
203	The dislocation structure in L12 ordered alloy Ni3Ge. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994 , 70, 1013-1025		17
202	Annealing Studies of B2 FeAl. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 133, 755		17
201	The effects of stoichiometry on the dry sliding wear of FeAl. <i>Intermetallics</i> , 2013 , 40, 19-27	3.5	16
200	The orientation dependence of the strength of ice single crystals. <i>Journal of Glaciology</i> , 2000 , 46, 41-44	3.4	16
199	Mechanical properties of FeAl		16
198	Cryogenic EBSD reveals structure of directionally solidified ice/polymer composite. <i>Materials Characterization</i> , 2014 , 93, 184-190	3.9	15
197	The microstructure of near-equiatomic B2/f.c.c. FeNiMnAl alloys. <i>Materials Characterization</i> , 2011 , 62, 952-958	3.9	15

196	Advanced microstructural characterization of four East Antarctic firn/ice cores. <i>Journal of Glaciology</i> , 2011 , 57, 796-810	3-4	15
195	Dry sliding wear of eutectic AlSi. <i>Journal of Materials Science</i> , 2010 , 45, 969-978	4-3	15
194	Effects of Degree of Deformation and Deformation Temperature on Primary Recrystallization Textures in Polycrystalline Nickel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2815-2824	2-3	15
193	On the yield anomaly in stoichiometric CoTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 206-212	5-3	15
192	The effects of sulfuric acid on the mechanical properties of ice single crystals. <i>Journal of Glaciology</i> , 2000 , 46, 239-243	3-4	15
191	Dislocations and grain boundaries in polycrystalline ice: a preliminary study by synchrotron X-ray topography. <i>Journal of Materials Science</i> , 1992 , 27, 2719-2725	4-3	15
190	High temperature deformation of Laves phase precipitates in alumina-forming austenitic stainless steels. <i>Materials Letters</i> , 2017 , 195, 108-111	3-3	14
189	Preliminary creep testing of the alumina-forming austenitic stainless steel Fe-20Cr-30Ni-2Nb-5Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 718, 492-498	5-3	14
188	The effect of thermo-mechanical treatment on the high temperature tensile behavior of an alumina-forming austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 795-804	5-3	14
187	Microemulsion Synthesis of Iron Core/Iron Oxide Shell Magnetic Nanoparticles and Their Physicochemical Properties. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1416, 61		14
186	Band Mn precipitates in the spinodal Fe ₃₀ Ni ₂₀ Mn ₂₅ Al ₂₅ alloy. <i>Philosophical Magazine</i> , 2007 , 87, 5639-5656		14
185	Isothermal annealing of cold-rolled high-purity nickel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 476, 46-59	5-3	14
184	The effects of local versus bulk disorder on the magnetic behavior of stoichiometric Ni ₃ Al. <i>Intermetallics</i> , 2007 , 15, 419-427	3-5	14
183	Strain-induced ferromagnetism in FeAl single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 334-338	5-3	14
182	The activation energies of antiphase-boundary tube annihilation in Fe-Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 2239-2247		14
181	The effect of boron on the Hall-Petch behavior of Fe-45Al. <i>Scripta Materialia</i> , 1996 , 34, 1219-1223	5-6	14
180	Improving the Low Temperature Ductility of NiAl. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 133, 633		14
179	The effects of carbon on the phase stability and mechanical properties of heat-treated FeNiMnCrAl high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 748, 59-73	5-3	13

178	The Effects of Cold Work on the Microstructure and Mechanical Properties of Intermetallic Strengthened Alumina-Forming Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3773-3785	2.3	13
177	Antibody-mediated targeting of iron oxide nanoparticles to the folate receptor alpha increases tumor cell association in vitro and in vivo. <i>International Journal of Nanomedicine</i> , 2015 , 10, 2595-617	7.3	13
176	Environmental embrittlement of two-phase Fe ₃₀ Ni ₂₀ Mn ₃₅ Al ₁₅ . <i>Intermetallics</i> , 2011 , 19, 1533-1537	3.5	13
175	Effects of impurities and their redistribution during recrystallization of ice crystals. <i>Journal of Glaciology</i> , 2008 , 54, 362-370	3.4	13
174	The effect of particles on creep rate and microstructures of granular ice. <i>Journal of Glaciology</i> , 2008 , 54, 533-537	3.4	13
173	Dislocation identification and in situ straining in the spinodal Fe ₃₀ Ni ₂₀ Mn ₂₅ Al ₂₅ alloy. <i>Microscopy Research and Technique</i> , 2008 , 71, 489-96	2.8	13
172	Simulation of microstructural evolution during directional annealing with variable boundary energy and mobility. <i>Acta Materialia</i> , 2003 , 51, 2755-2764	8.4	13
171	Dislocations in Fe-45 at.% Al + B after high-temperature deformation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995 , 72, 1301-1310		13
170	Annealing of Cold-Rolled Fe-40Al Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 367		13
169	Room Temperature Fracture of FeCo. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 501		13
168	Evolution of the specific surface area of snow during high-temperature gradient metamorphism. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,690-13,703	4.4	12
167	Insight into the phase transformations between ice Ih and ice II from electron backscatter diffraction data. <i>Scripta Materialia</i> , 2012 , 66, 69-72	5.6	12
166	Effect of boron and carbon addition on microstructure and mechanical properties of the aged gamma-prime strengthened alumina-forming austenitic alloys. <i>Intermetallics</i> , 2017 , 90, 36-49	3.5	12
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