Ian Baker

List of Publications by Year in Descending Order

321 papers	7,640 citations	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	Optimization of the microstructure and mechanical properties of electron beam welded high-strength medium-entropy alloy (NiCoCr)94Al3Ti3. *Intermetallics*, **2022**, 141, 107439	3.5	1
320	Superior strength-ductility synergy in a novel tailored nanoparticles-strengthened medium-entropy alloy. *Scripta Materialia*, **2022**, 207, 114278	5.6	6
319	Phase transformation via atomic-scale periodic interfacial energy. *Materials Today Physics*, **2022**, 24, 100668		
318	Development of a new cryogenic tribotester and its application to the study of cryogenic wear of AISI 316 stainless steel. *Wear*, **2022**, 496-497, 204309	3.5	2
317	Dissimilar electron beam welding of the medium-entropy alloy (NiCoCr)94Al3Ti3 to 304 stainless steel. *Scripta Materialia*, **2022**, 214, 114659	5.6	2
316	The effect of Al/Ti ratio on the evolution of precipitates and their effects on mechanical properties for Ni35(CoCrFe)55AlxTi10□ high entropy alloys. *Journal of Alloys and Compounds*, **2022**, 906, 164291	5.7	1
315	Interstitial strengthening in f.c.c. metals and alloys **2022**, 1, 100034		1
314	Microstructure, mechanical properties and biocompatibility of laser metal deposited Ti□3Nb coatings on a NiTi substrate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 143402	5.3	0
313	Microstructural evolution of Fe□0Cr□0Ni□Nb□Al AFA steel during creep at 760□□C. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 806, 140602	5.3	4
312	Analysis of the elevated temperature deformation mechanisms and grain boundary strengthening of the alumina-forming austenitic stainless steel Fe□0Cr□0Ni□Nb□Al. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 814, 141219	5.3	2
311	The Effect of Antiphase Boundary Tubes on the Hardness of FeAl. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 3694-3698	2.3	0
310	Directional recrystallisation processing: a review. *International Materials Reviews*, **2021**, 66, 256-286	16.1	0
309	The formation mechanism, growth, and effect on the mechanical properties of precipitate free zones in the alumina-forming austenitic stainless steel Fe□0Cr□0Ni□Nb□Al during creep. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , 2021, 820, 141561	5.3	2
308	Selective laser melted AlSi10Mg alloy under melting mode transition: Microstructure evolution, nanomechanical behaviors and tensile properties. *Journal of Alloys and Compounds*, **2021**, 873, 159823	5.7	18
307	Manganese-based Permanent Magnet Materials. *Progress in Materials Science*, **2021**, 124, 100872	42.2	4
306	Dynamic Observations of the Densification of Polar Firn Under Compression Using a Micro-Computed Tomograph. *Journal of Geophysical Research F: Earth Surface*, **2021**, 126, e2021JF006290	3.8	2
305	Interstitials in f.c.c. High Entropy Alloys. *Metals*, **2020**, 10, 695	2.3	23

304	A model for French-press experiments of dry snow compaction. *Cryosphere*, **2020**, 14, 1449-1458	5.5	5
303	Effect of soluble particles on microstructural evolution during directional recrystallization. *Acta Materialia*, **2020**, 188, 288-301	8.4	6
302	A comparison of the dry sliding wear behavior of NiCoCr medium entropy alloy with 316 stainless steel. *Materials Characterization*, **2020**, 160, 110132	3.9	7
301	Identification of a calcium phosphoserine coordination network in an adhesive organo-apatitic bone cement system. *Acta Biomaterialia*, **2020**, 105, 280-289	10.8	11
300	High strength and high ductility in a novel Fe40.2Ni11.3Mn30Al7.5Cr11 multiphase high entropy alloy. *Journal of Alloys and Compounds*, **2020**, 820, 153181	5.7	4
299	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	3.9	3
298	Effect of melting modes on microstructure and tribological properties of selective laser melted AlSi10Mg alloy. *Virtual and Physical Prototyping*, **2020**, 15, 570-582	10.1	12
297	Effect of solute on microstructural evolution during directional recrystallization. *Journal of Alloys and Compounds*, **2020**, 815, 152358	5.7	1
296	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	5.3	13
295	Microstructural characterization of snow, firn and ice. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2019**, 377, 20180162	3	9
294	Climate Effects on Firn Permeability Are Preserved Within a Firn Column. *Journal of Geophysical Research F: Earth Surface*, **2019**, 124, 830-837	3.8	4
293	Characterization of high-strength high-nitrogen austenitic stainless steel synthesized from nitrided powders by spark plasma sintering. *Materials Characterization*, **2019**, 152, 76-84	3.9	20
292	Elevated temperature directional recrystallization of high-purity nickel. *Philosophical Magazine*, **2019**, 99, 1057-1078	1.6	4
291	Effects of niobium particles on the wear behavior of powder metallurgical □TiAl alloy in different environments. *Wear*, **2019**, 434-435, 202964	3.5	5
290	Breakdown of growth front at elevated drawing velocity during directional recrystallization. *Philosophical Magazine Letters*, **2019**, 99, 167-172	1	2
289	Enhanced mechanical properties of carbon-doped FeNiMnAlCr high entropy alloy via hot-rolling. *Materials Characterization*, **2019**, 158, 109983	3.9	4
288	Eutectic/eutectoid multi-principle component alloys: A review. *Materials Characterization*, **2019**, 147, 545-557	3.9	45
287	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	5.3	14

286	Magnetic nanoparticle synthesis **2018**, 197-229		4
285	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	3.9	25
284	Polyethylene **2018**, 163-168		1
283	Lead Zirconate Titanate **2018**, 111-115		0
282	Glass Fiber Reinforced Polymers **2018**, 71-74		
281	Uranium/Uranium Oxide **2018**, 251-254		1
280	Kevlar and Other Aramid Fibers **2018**, 101-104		1
279	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	3.8	7
278	Manufacturing of intermetallic Mn-46%Al by laser powder bed fusion. *Procedia CIRP*, **2018**, 74, 64-67	1.8	8
277	Effects of Environment on the Wear Behavior of P/M Ti-47Al-2Cr-0.2Mo. *Key Engineering Materials*, **2018**, 770, 106-115	0.4	
276	Rare Earth Magnets **2018**, 187-194		1
275	Nickel-Based Superalloys **2018**, 131-136		
274	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	8.4	139
273	The influence of sliding velocity and third bodies on the dry sliding wear of Fe30Ni20Mn25Al25 against AISI 347 stainless steel. *Wear*, **2017**, 374-375, 63-76	3.5	8
272	Quantifying damage in polycrystalline ice via X-Ray computed micro-tomography. *Acta Materialia*, **2017**, 127, 463-470	8.4	7
271	High temperature deformation of Laves phase precipitates in alumina-forming austenitic stainless steels. *Materials Letters*, **2017**, 195, 108-111	3.3	14
270	Single-crystal ice surfaces unveil connection between macroscopic and molecular structure. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5349-5354	11.5	8
269	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	5.3	27

268	Comparison of the effects of unidirectional and sign-alternating temperature gradients on the sintering of ice spheres. *Hydrological Processes*, **2017**, 31, 871-879	3.3	7
267	The effect of sliding velocity on the dry sliding wear of nanophase Fe30Ni20Mn25Al25 against yttria-stabilized zirconia. *Intermetallics*, **2017**, 83, 17-28	3.5	9
266	Direct versus indirect particle strengthening in a strong, ductile FeNiMnAlTi high entropy alloy. *Materials Characterization*, **2017**, 132, 156-161	3.9	19
265	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	3.5	12
264	Recrystallization of a novel two-phase FeNiMnAlCr high entropy alloy. *Journal of Alloys and Compounds*, **2016**, 656, 458-464	5.7	57
263	Magnetic Heating of Fe-Co Ferrites: Experiments and Modeling. *Nano LIFE*, **2016**, 6,	0.9	1
262	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	8.4	250
261	Microstructural evolution of polycrystalline ice during confined creep testing. *Cold Regions Science and Technology*, **2016**, 127, 25-36	3.8	5
260	Martensitic Phase Transformation in a f.c.c./B2 FeNiMnAl Alloy. *Journal of Materials Science*, **2016**, 51, 7831-7842	4.3	6
259	Effect of Ti content on the microstructure and mechanical behavior of (Fe36Ni18Mn33Al13)100−xTix high entropy alloys. *Intermetallics*, **2016**, 75, 79-87	3.5	38
258	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	5.3	14
257	Investigating the thermophysical properties of the ice–snow interface under a controlled temperature gradient Part II: Analysis. *Cold Regions Science and Technology*, **2016**, 125, 12-20	3.8	8
256	The effects of Ca++ on the strength of polycrystalline ice. *Journal of Glaciology*, **2016**, 62, 954-962	3.4	5
255	Magnetic-Nanoparticle-Based Immunoassays-on-Chip: Materials Synthesis, Surface Functionalization, and Cancer Cell Screening. *Advanced Functional Materials*, **2016**, 26, 3953-3972	15.6	28
254	Interstitial strengthening of a f.c.c. FeNiMnAlCr high entropy alloy. *Materials Letters*, **2016**, 180, 153-156	3.3	86
253	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	5.3	20
252	Lamellar coarsening in Fe28Ni18Mn33Al21 and its influence on room temperature tensile behavior. *Acta Materialia*, **2015**, 95, 124-131	8.4	27
251	The effect of aging on the microstructure and mechanical behavior of the alumina-forming austenitic stainless steel Fe20Cr10Ni2NbxAl. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 627, 270-276	5.3	33

250	The Dartmouth Center for Cancer Nanotechnology Excellence: magnetic hyperthermia. *Nanomedicine*, **2015**, 10, 1685-92	5.6	2
249	An assessment on the future development of high-entropy alloys: Summary from a recent workshop. *Intermetallics*, **2015**, 66, 67-76	3.5	267
248	Control of grain boundary character distribution and its effects on the deformation of Fe3.5 wt.% Si. *Journal of Alloys and Compounds*, **2015**, 639, 40-44	5.7	22
247	Making EBSD on water ice routine. *Journal of Microscopy*, **2015**, 259, 237-56	1.9	52
246	Magnetic Nanoparticles with High Specific Absorption Rate at Low Alternating Magnetic Field. *Nano LIFE*, **2015**, 5,	0.9	19
245	The effects of annealing on the microstructure and mechanical properties of Fe28Ni18Mn33Al21. *Journal of Materials Science*, **2015**, 50, 7821-7834	4.3	4
244	Investigating the thermophysical properties of the ice–snow interface under a controlled temperature gradient. *Cold Regions Science and Technology*, **2015**, 120, 157-167	3.8	19
243	Contact temperatures and their influence on wear during pin-on-disk tribotesting. *Tribology International*, **2015**, 82, 534-542	4.9	71
242	Concentration dependence of Cr for alleviating environmental embrittlement in Fe30Ni20Mn35Al15. *Intermetallics*, **2015**, 56, 28-32	3.5	10
241	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	2.3	13
240	Sintering of Ice Spheres under Different Thermal Conditions. *Microscopy and Microanalysis*, **2015**, 21, 2097-2098	0.5	
239	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, 2595-617	7.3	13
238	Nitriding of a high entropy FeNiMnAlCr alloy. *Journal of Alloys and Compounds*, **2015**, 645, 376-381	5.7	44
237	Magnetic nanoparticles with high specific absorption rate of electromagnetic energy at low field strength for hyperthermia therapy. *Journal of Applied Physics*, **2015**, 117, 094302	2.5	47
236	Orientation relationships of Laves phase and NiAl particles in an AFA stainless steel. *Philosophical Magazine*, **2015**, 95, 4078-4094	1.6	10
235	Microstructures and Mechanical Properties of Two-Phase FeNiMnAl Alloys. *Materials Science Forum*, **2014**, 783-786, 2549-2554	0.4	4
234	A comparison of MnAl particulates produced via different routes. *Journal of Physics Condensed Matter*, **2014**, 26, 064201	1.8	36
233	Effects of environment on dry sliding wear of powder metallurgical Ti-47Al-2Cr-2Nb-0.2W. *Intermetallics*, **2014**, 53, 10-19	3.5	21

232	Accelerated precipitation in the AFA stainless steel Fe20Cr30Ni2Nb5Al via cold working. *Intermetallics*, **2014**, 53, 120-128	3.5	44
231	Cryogenic EBSD reveals structure of directionally solidified ice–polymer composite. *Materials Characterization*, **2014**, 93, 184-190	3.9	15
230	Evolution of the specific surface area of snow during high-temperature gradient metamorphism. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 13,690-13,703	4.4	12
229	Global warming releases microplastic legacy frozen in Arctic Sea ice. *Earthis Future*, **2014**, 2, 315-320	7.9	539
228	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	5.5	11
227	Microstructure and Magnetic Properties of Bulk Nanocrystalline MnAl. *Metals*, **2014**, 4, 20-27	2.3	41
226	Impact of physical properties and accumulation rate on pore close-off in layered firn. *Cryosphere*, **2014**, 8, 91-105	5.5	42
225	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, 7964-7	11.5	96
224	Preface to the 13th Physics and Chemistry of Ice Conference (PCI-2014). *Journal of Physical Chemistry B*, **2014**, 118, 13323	3.4	
223	Effect of Al content on the microstructure and mechanical behavior of two-phase FeNiMnAl alloys. *Journal of Materials Science*, **2014**, 49, 1973-1983	4.3	19
222	Accelerated precipitation due to mechanical milling of two-phase B2/L21 Fe30Ni20Mn20Al30. *Journal of Alloys and Compounds*, **2013**, 559, 97-100	5.7	2
221	Microstructure and mechanical properties of two-phase Fe30Ni20Mn20Al30. Part I: Microstructure. *Journal of Materials Science*, **2013**, 48, 7435-7445	4.3	4
220	Microstructure and mechanical properties of two-phase Fe30Ni20Mn20Al30: part II mechanical properties. *Journal of Materials Science*, **2013**, 48, 6535-6541	4.3	0
219	A comparison of dry sliding wear of Fe30Ni20Mn25Al25 at room temperature and elevated temperature. *Intermetallics*, **2013**, 39, 94-103	3.5	6
218	Microstructure and mechanical behavior of directionally solidified Fe35Ni15Mn25Al25. *Intermetallics*, **2013**, 32, 413-422	3.5	4
217	Tribological studies of a Zr-based bulk metallic glass. *Intermetallics*, **2013**, 35, 25-32	3.5	34
216	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	5.3	29
215	The effects of stoichiometry on the dry sliding wear of FeAl. *Intermetallics*, **2013**, 40, 19-27	3.5	16

214	Understanding mNP Hyperthermia for cancer treatment at the cellular scale. *Proceedings of SPIE*, **2013**, 8584, 85840E	1.7	6
213	Surface instability and mass transfer during the bonding of ice spheres. *Philosophical Magazine*, **2013**, 93, 3177-3193	1.6	8
212	The Mechanical Properties of Near-equiatomic B2/f.c.c. FeNiMnAl Alloys. *Materials Research Society Symposia Proceedings*, **2013**, 1516, 249-254		2
211	Dislocations in nanostructured two-phase Fe30Ni20Mn20Al30. *Microscopy Research and Technique*, **2013**, 76, 263-7	2.8	1
210	Observation of the microstructural evolution of snow under uniaxial compression using X-ray computed microtomography. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 12,371-12,382	4.4	25
209	Characterization of Melt Layers in Firn at Summit, Greenland using Micro CT. *Microscopy and Microanalysis*, **2013**, 19, 642-643	0.5	5
208	Insight into the phase transformations between ice Ih and ice II from electron backscatter diffraction data. *Scripta Materialia*, **2012**, 66, 69-72	5.6	12
207	Effects of confining pressure on flaw formation during the consolidation of ductile powders by angular extrusion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 536, 24-32	5.3	4
206	Dry sliding tribological behavior of Zr-based bulk metallic glass. *Transactions of Nonferrous Metals Society of China*, **2012**, 22, 585-589	3.3	22
205	Dry sliding wear of nanostructured Fe30Ni20Mn20Al30. *Intermetallics*, **2012**, 23, 116-127	3.5	11
204	Effects of environment on the sliding tribological behaviors of Zr-based bulk metallic glass. *Intermetallics*, **2012**, 25, 115-125	3.5	38
203	Giant strain-induced ferromagnetism in Fe59Mn17Al24. *Philosophical Magazine*, **2012**, 92, 849-860	1.6	1
202	The effects of environment on the dry sliding wear of eutectic Fe30Ni20Mn35Al15. *Journal of Materials Science*, **2012**, 47, 4827-4837	4.3	9
201	Study of yield stress anomaly of Fe2MnAl single crystal by in situ TEM straining. *Philosophical Magazine*, **2012**, 92, 959-985	1.6	4
200	An Overview of Dry Sliding Wear of Two-Phase FeNiMnAl Alloys. *Materials Research Society Symposia Proceedings*, **2012**, 1516, 103-108		1
199	Microemulsion Synthesis of Iron Core/Iron Oxide Shell Magnetic Nanoparticles and Their Physicochemical Properties. *Materials Research Society Symposia Proceedings*, **2012**, 1416, 61		14
198	L12 precipitates within L21 ordered Fe□1.7Mn□4.5Al. *Philosophical Magazine*, **2011**, 91, 3547-3556	1.6	5
197	Development of Novel Magnetic Nanoparticles for Hyperthermia Cancer Therapy. *Proceedings of SPIE*, **2011**, 7901, 790115	1.7	8

196	Environmental embrittlement of two-phase Fe30Ni20Mn35Al15. *Intermetallics*, **2011**, 19, 1533-1537	3.5	13
195	Magnetically-triggered heating of Fe□Al powders. *Intermetallics*, **2011**, 19, 1517-1525	3.5	5
194	A scanning electron microscope technique for identifying the mineralogy of dust in ice cores. *Journal of Glaciology*, **2011**, 57, 511-514	3.4	5
193	Using borehole logging and electron backscatter diffraction to orient an ice core from Upper Fremont Glacier, Wyoming, USA. *Journal of Glaciology*, **2011**, 57, 832-840	3.4	3
192	Microstructural evolution in the fine-grained region of the Siple Dome (Antarctica) ice core. *Journal of Glaciology*, **2011**, 57, 1046-1056	3.4	1
191	The microstructure of near-equiatomic B2/f.c.c. FeNiMnAl alloys. *Materials Characterization*, **2011**, 62, 952-958	3.9	15
190	Evolution of the microstructure and mechanical properties of eutectic Fe30Ni20Mn35Al15. *Journal of Materials Science*, **2011**, 46, 2009-2017	4.3	27
189	On the room-temperature deformation mechanisms of lamellar-structured Fe30Ni20Mn35Al15. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 3998-4008	5.3	36
188	Microstructural evolution of fine-grained layers through the firn column at Summit, Greenland. *Journal of Glaciology*, **2011**, 57, 755-762	3.4	38
187	Advanced microstructural characterization of four East Antarctic firn/ice cores. *Journal of Glaciology*, **2011**, 57, 796-810	3.4	15
186	Towards an integrated materials characterization toolbox. *Journal of Materials Research*, **2011**, 26, 1341-1383	2.3	75
185	In situ TEM observations of dislocation/anti-phase boundary interactions. *Philosophical Magazine*, **2011**, 91, 3242-3252	1.6	1
184	A new technique for firn grain-size measurement using SEM image analysis. *Journal of Glaciology*, **2010**, 56, 12-19	3.4	4
183	Evolution of individual snowflakes during metamorphism. *Journal of Geophysical Research*, **2010**, 115,		36
182	MAGNETIC NANOPARTICLE HYPERTHERMIA IN CANCER TREATMENT. *Nano LIFE*, **2010**, 1,	0.9	209
181	Containerless Consolidation of Mg Powders Using ECAE. *Materials and Manufacturing Processes*, **2010**, 25, 1381-1384	4.1	11
180	Dry sliding wear of eutectic Al□Si. *Journal of Materials Science*, **2010**, 45, 969-978	4.3	15
179	Effect of sliding environment on dry sliding wear of as-cast eutectic Al□Si. *Journal of Materials Science*, **2010**, 45, 6849-6852	4.3	3

178	Observations of the morphology and sublimation-induced changes in uncoated snow using scanning electron microscopy. *Hydrological Processes*, **2010**, 24, n/a-n/a	3.3	7
177	Structural evolution during ice-sphere sintering. *Hydrological Processes*, **2010**, 24, n/a-n/a	3.3	6
176	Surface Engineering of Core/Shell Iron/Iron Oxide Nanoparticles from Microemulsions for Hyperthermia. *Materials Science and Engineering C*, **2010**, 30, 92-97	8.3	85
175	Microstructural evolution of spinodally formed Fe35Ni15Mn25Al25. *Intermetallics*, **2009**, 17, 886-893	3.5	25
174	Imaging brine and air inclusions in sea ice using micro-X-ray computed tomography. *Journal of Glaciology*, **2009**, 55, 1113-1115	3.4	26
173	On the effects of temperature on the strength of H2SO4-doped ice single crystals. *Journal of Glaciology*, **2009**, 55, 481-484	3.4	5
172	Characterization of Porous Snow with SEM and Micro CT. *Microscopy and Microanalysis*, **2009**, 15, 1110-1111	0.5	5
171	Microstructure and Mechanical Behavior in Spinodal Fe35Ni15Mn25Al25 Alloy. *Microscopy and Microanalysis*, **2009**, 15, 116-117	0.5	5
170	Microstructure and room-temperature mechanical properties of Fe30Ni20Mn35Al15. *Materials Characterization*, **2008**, 59, 1546-1549	3.9	33
169	Physics and Chemistry, and the Archives of Snow and Firn: Workshop on the Microstructure and Properties of Firn; Hanover, New Hampshire, 10–11 March 2008. *Eos*, **2008**, 89, 244-244	1.5	
168	On the effect of strain rate and temperature on the yield strength anomaly in L21 Fe2AlMn. *Materials Research Society Symposia Proceedings*, **2008**, 1128, 50901		
167	An Overview of the Mechanical Properties of FeAl. *Materials Research Society Symposia Proceedings*, **2008**, 1128, 20101		1
166	Effects of impurities and their redistribution during recrystallization of ice crystals. *Journal of Glaciology*, **2008**, 54, 362-370	3.4	13
165	The effect of particles on creep rate and microstructures of granular ice. *Journal of Glaciology*, **2008**, 54, 533-537	3.4	13
164	Experiments and simulations of directionally annealed ODS MA 754. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 492, 353-363	5.3	19
163	Dislocation identification and in situ straining in the spinodal Fe30Ni20Mn25Al25 alloy. *Microscopy Research and Technique*, **2008**, 71, 489-96	2.8	13
162	Isothermal annealing of cold-rolled high-purity nickel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 476, 46-59	5.3	14
161	and Mn precipitates in the spinodal Fe30Ni20Mn25Al25 alloy. *Philosophical Magazine*, **2007**, 87, 5639-5656		14

160	Fe□e oxide nanocomposite particles with large specific absorption rate for hyperthermia. *Applied Physics Letters*, **2007**, 90, 233112	3.4	42
159	Microstructural characterization of firn. *Hydrological Processes*, **2007**, 21, 1624-1629	3.3	11
158	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	2.3	15
157	Structural and magnetic properties of nanostructured Mn□l□ magnetic materials. *Journal of Magnetism and Magnetic Materials*, **2007**, 308, 214-226	2.8	119
156	Synthesis and heating effect of iron/iron oxide composite and iron oxide nanoparticles. *Proceedings of SPIE*, **2007**, 6440, 64400H	1.7	6
155	The microstructure of meteoric ice from Vostok, Antarctica. *Journal of Glaciology*, **2007**, 53, 41-62	3.4	25
154	The effects of local versus bulk disorder on the magnetic behavior of stoichiometric Ni3Al. *Intermetallics*, **2007**, 15, 419-427	3.5	14
153	An investigation of the effects of particles on creep of polycrystalline ice. *Scripta Materialia*, **2006**, 55, 91-94	5.6	6
152	Grain boundary grooving in ice in a scanning electron microscope. *Journal of Glaciology*, **2006**, 52, 169-172	3.4	9
151	The Heating Effects of Dextran Coated Iron Oxides. *Materials Research Society Symposia Proceedings*, **2006**, 962, 1		0
150	Coercivity in nanostructured FeCo-based powders prepared by mechanical alloying. *Materials Research Society Symposia Proceedings*, **2006**, 980, 9		1
149	Microstructure and Mechanical Properties of an Extruded Fe30Ni20Mn25Al25 Alloy. *Materials Research Society Symposia Proceedings*, **2006**, 980, 2		1
148	Investigation of Newtonian creep in polycrystalline ice. *Philosophical Magazine Letters*, **2006**, 86, 763-771	1	9
147	Nanostructured Mn□l permanent magnets produced by mechanical milling. *Journal of Applied Physics*, **2006**, 99, 08E902	2.5	38
146	Heat deposition in iron oxide and iron nanoparticles for localized hyperthermia. *Journal of Applied Physics*, **2006**, 99, 08H106	2.5	69
145	Magnetic properties and thermal ordering of mechanically alloyed Fe□0 at% Al. *Intermetallics*, **2006**, 14, 396-405	3.5	71
144	Using electron backscatter diffraction patterns to examine recrystallization in polar ice sheets. *Journal of Glaciology*, **2006**, 52, 546-557	3.4	43
143	Nanonstructural Analysis of Advanced Alloys in a Local Electrode Atom Probe. *Microscopy and Microanalysis*, **2005**, 11,	0.5	4

142	Microstructural characterization of ice cores. *Annals of Glaciology*, **2005**, 42, 441-444	2.5	17
141	Magnetic ordering of sputtered nanostructured Fe/sub 50/Ni/sub 50/ films. *IEEE Transactions on Magnetics*, **2005**, 41, 3358-3360	2	6
140	An EBSP study of directionally recrystallized cold-rolled nickel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 392, 8-22	5.3	23
139	Creep of granular ice with and without dispersed particles. *Journal of Glaciology*, **2005**, 51, 210-218	3.4	18
138	The effect of particles on dynamic recrystallization and fabric development of granular ice during creep. *Journal of Glaciology*, **2005**, 51, 377-382	3.4	8
137	A new high-strength spinodal alloy. *Journal of Materials Research*, **2005**, 20, 791-795	2.5	39
136	The structure and mechanical properties of Fe2AlMn single crystals. *Philosophical Magazine*, **2004**, 84, 3169-3194	1.6	20
135	Microstructure and Mechanical Properties of Fe-Ni-Mn-Al Alloys. *Materials Research Society Symposia Proceedings*, **2004**, 842, 251		3
134	Recrystallization Processing of Cold-Rolled Nickel. *Materials Research Society Symposia Proceedings*, **2004**, 819, N7.1.1		1
133	Observation of strain-induced ferromagnetism in off-stoichiometric Fe2AlMn single crystals. *Materials Characterization*, **2004**, 52, 209-216	3.9	8
132	Determining the orientations of ice crystals using electron backscatter patterns. *Microscopy Research and Technique*, **2004**, 63, 183-7	2.8	36
131	An EBSP study of isothermally-annealed cold-rolled nickel. *Microscopy Research and Technique*, **2004**, 63, 289-97	2.8	9
130	The effect of substitutional elements on the strain-induced ferromagnetism in B2-structured FeAl single crystals. *Intermetallics*, **2004**, 12, 851-858	3.5	6
129	Initial experiments on the effects of particles at grain boundaries on the anelasticity and creep behavior of granular ice. *Annals of Glaciology*, **2004**, 39, 397-401	2.5	6
128	Magnetic Properties of Nanocrystalline Fe50Co50 Powders. *Materials Research Society Symposia Proceedings*, **2003**, 788, 3131		
127	SEM/EDS observations of impurities in polar ice: artifacts or not?. *Journal of Glaciology*, **2003**, 49, 184-190	3.4	26
126	SEM/EDS comparison of polar and seasonal temperate ice. *Microscopy Research and Technique*, **2003**, 62, 49-61	2.8	23
125	Imaging dislocations in ice. *Microscopy Research and Technique*, **2003**, 62, 70-82	2.8	9

124	Simulation of microstructural evolution during directional annealing with variable boundary energy and mobility. *Acta Materialia*, **2003**, 51, 2755-2764	8.4	13
123	The paramagnetic-to-ferromagnetic transition in B2-structured Fe-Al single crystals: Experiments and calculations. *Philosophical Magazine*, **2003**, 83, 295-313	1.6	21
122	The microstructural location of impurities in ice. *Canadian Journal of Physics*, **2003**, 81, 1-9	1.1	51
121	The effects of sulfuric acid on the creep, recrystallization, and electrical properties of ice. *Canadian Journal of Physics*, **2003**, 81, 395-400	1.1	9
120	The structure and chemistry of 94 m Greenland Ice Sheet Project 2 ice. *Annals of Glaciology*, **2002**, 35, 224-230	2.5	18
119	Characterization of directionally recrystallized cold-rolled nickel using EBSP. *Microscopy and Microanalysis*, **2002**, 8, 1264-1265	0.5	
118	Scanning Electron Microscopy of Vostok Accretion Ice. *Microscopy and Microanalysis*, **2002**, 8, 1546-1547	0.5	2
117	SEM/EDS Studies of Impurities in Natural Ice. *Microscopy and Microanalysis*, **2002**, 8, 1398-1399	0.5	1
116	Structure, Chemistry and Properties of Grain Boundaries in H2SO4Doped Ice. *Microscopy and Microanalysis*, **2002**, 8, 1544-1545	0.5	1
115	Observation of sulfate crystallites in Vostok accretion ice. *Materials Characterization*, **2002**, 48, 263-269	3.9	21
114	Microstructure, mechanical properties and wear of NiAlFe alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 325, 1-8	5.3	26
113	Strain-induced ferromagnetism in FeAl single crystals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 329-331, 334-338	5.3	14
112	The effects of environment on the room-temperature mechanical behavior of single-slip oriented FeAl single crystals. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 329-331, 729-733	5.3	6
111	On the yield anomaly in stoichiometric CoTi. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 329-331, 206-212	5.3	15
110	Directional annealing of cold-rolled copper single crystals. *Acta Materialia*, **2002**, 50, 805-813	8.4	21
109	Microstructural evolution during directional annealing. *Acta Materialia*, **2002**, 50, 3347-3359	8.4	20
108	The effect of hot zone velocity and temperature gradient on the directional recrystallization of polycrystalline nickel. *Acta Materialia*, **2002**, 50, 4491-4497	8.4	24
107	Imaging of uncoated snow crystals using a low-vacuum scanning electron microscope. *Journal of Glaciology*, **2002**, 48, 479-480	3.4	7

106	The Effects of Ternary Elemental Additions on the Structure and Magnetic Properties of Nanocrystalline Feco Powders. *Materials Research Society Symposia Proceedings*, **2002**, 753, 1		
105	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		14
104	Examination of Dislocations in Ice. *Crystal Growth and Design*, **2002**, 2, 127-134	3.5	9
103	Preliminary microstructural and microchemical observations on pond and river accretion ice. *Cold Regions Science and Technology*, **2002**, 35, 81-99	3.8	11
102	The role of edge and screw dislocations on hydrogen embrittlement of Fe-40Al. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 319-321, 352-355	5.2	7
101	Observation of impurities in ice. *Microscopy Research and Technique*, **2001**, 55, 198-207	2.8	64
100	The effect of environment and strain rate on the room temperature tensile properties of FeAl single crystals. *Intermetallics*, **2001**, 9, 57-65	3.5	17
99	Dynamic observations of dislocation/grain-boundary interactions in ice. *Annals of Glaciology*, **2000**, 31, 236-240	2.5	4
98	Strain-Induced Ferromagnetism in Fe-40Al Single Crystals. *Materials Research Society Symposia Proceedings*, **2000**, 646, 197		2
97	The Yield Anomaly in CoTi. *Materials Research Society Symposia Proceedings*, **2000**, 646, 215		2
96	The Effects of Environment on the Room Temperature Deformation of B2-Structured Fe-43Al Single-Crystals. *Materials Research Society Symposia Proceedings*, **2000**, 646, 269		
95	The chemistry of grain boundaries in Greenland ice. *Journal of Glaciology*, **2000**, 46, 703-706	3.4	3
94	The chemistry of grain boundaries in Greenland ice. *Journal of Glaciology*, **2000**, 46, 703-706	3.4	39
93	The effects of sulfuric acid on the mechanical properties of ice single crystals. *Journal of Glaciology*, **2000**, 46, 239-243	3.4	15
92	The orientation dependence of the strength of ice single crystals. *Journal of Glaciology*, **2000**, 46, 41-44	3.4	16
91	The effect of H2SO4 on the stress exponent in ice single crystals. *Geological Society Special Publication*, **2000**, 176, 39-45	1.7	1
90	Recovery, recrystallization and grain growth in ordered alloys. *Intermetallics*, **2000**, 8, 1183-1196	3.5	41
89	A Low Cost EBSD System: Implementation and Application. *Microscopy and Microanalysis*, **1999**, 5, 244-245	3.5	

88	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		51
87	Improving the ductility of intermetallic compounds by particle-induced slip homogenization. *Scripta Materialia*, **1999**, 41, 409-414	5.6	25
86	Effect of Vacancies on the Tensile Properties of Fe-40Al Single Crystals in Air and Vacuum. *Materials Characterization*, **1999**, 42, 161-167	3.9	10
85	Study of Electrical Properties of Dislocations in ZNS Using Electric Force Microscopy. *Materials Research Society Symposia Proceedings*, **1999**, 578, 255		1
84	The influence of vacancy concentration on the mechanical behavior of Fe-40Al. *Intermetallics*, **1998**, 6, 167-175	3.5	67
83	The room temperature strengthening effect of boron as a function of aluminum concentration in FeAl. *Intermetallics*, **1998**, 6, 177-183	3.5	42
82	A model for the yield strength anomaly of FeAl. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1998**, 77, 737-750		77
81	The Mechanical Properties of FeAl. *Materials Research Society Symposia Proceedings*, **1998**, 552, 1		2
80	Annealing of Quenched Fe-Al Alloys With/Without B And Ti. *Materials Research Society Symposia Proceedings*, **1998**, 552, 1		4
79	Mechanical properties of FeAl. *International Materials Reviews*, **1997**, 42, 181-205	16.1	160
78	Observation of Dislocations in Ice. *Journal of Physical Chemistry B*, **1997**, 101, 6158-6162	3.4	10
77	Temperature Dependence of Dislocations in Notched Ice Crystals. *Journal of Physical Chemistry B*, **1997**, 101, 6102-6104	3.4	
76	On the yield stress anomaly in stoichiometric FeAl. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 239-240, 109-117	5.3	19
75	The effect of boron on the Hall-Petch behavior of Fe-45Al. *Scripta Materialia*, **1996**, 34, 1219-1223	5.6	14
74	Dynamic In-Situ Synchrotron X-Ray Topographic Observations of Dislocations in Notched Ice Crystals. *Materials Research Society Symposia Proceedings*, **1996**, 437, 119		
73	A New Tetragonal Boride Phase in FeAl+B Type Alloys. *Materials Research Society Symposia Proceedings*, **1996**, 460, 331		1
72	Annealing of Cold-Rolled Fe-40A1 Single Crystals. *Materials Research Society Symposia Proceedings*, **1996**, 460, 367		13
71	Dry sliding wear of NiAl. *Wear*, **1996**, 192, 241-247	3.5	55

70	Observation of slip transmission through a grain boundary in ice. *Journal of Materials Science*, **1996**, 31, 2373-2378	4.3	3
69	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	4.3	20
68	A Model for the Yield Strength Anomaly in FeAl. *Materials Research Society Symposia Proceedings*, **1996**, 460, 373		3
67	The effect of X-radiation on the plastic deformation of ice. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1996**, 73, 1355-1361		3
66	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		13
65	Dislocation-grain boundary interactions in ice crystals. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1995**, 71, 15-42		46
64	Thermally induced dislocation loops in polycrystalline ice. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1995**, 71, 1-14		9
63	The effect of temperature and Fe: Al ratio on the flow and fracture of FeAl. *Acta Metallurgica Et Materialia*, **1995**, 43, 1723-1730		56
62	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		19
61	A review of the mechanical properties of B2 compounds. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1995**, 192-193, 1-13	5.3	138
60	Extrusion processing of FeCo. *Journal of Materials Science*, **1994**, 29, 742-748	4.3	3
59	Effects of boron and grain size on the strain-rate sensitivity of Fe-45Al. *Scripta Metallurgica Et Materialia*, **1994**, 30, 863-868		37
58	Long range order and defect concentrations in NiAl and CoAl. *Acta Metallurgica Et Materialia*, **1994**, 42, 1535-1540		41
57	Studies of Defect Behavior in Large-Grain, Polycrystalline Ice Using Synchrotron X-ray Topography. *Molecular Crystals and Liquid Crystals*, **1994**, 240, 73-80		1
56	Wear of Ductile-Phase Toughened NiAl. *Materials Research Society Symposia Proceedings*, **1994**, 364, 555		0
55	Dislocation Mobility in HCL-Doped Ice. *Materials Research Society Symposia Proceedings*, **1994**, 375, 287		10
54	A New Method to Characterize Dislocation Loops. *Materials Research Society Symposia Proceedings*, **1994**, 375, 319		
53	The dislocation structure in L12 ordered alloy Ni3Ge. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1994**, 70, 1013-1025		17

52	The temperature dependence of the flow and fracture of Fe-40Al. *Scripta Metallurgica Et Materialia* , **1993**, 28, 1411-1416		63
51	Order and recrystallization in deformed Fe[sbnd]70 at.% Co. *Philosophical Magazine Letters*, **1993**, 68, 327-333	1	5
50	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		26
49	Hard sphere modeling of the effect of slip on interstitial sites in the B2 structure. *Journal of Materials Research*, **1993**, 8, 1203-1205	2.5	3
48	Transmission electron microscopy in situ straining of multiphase Ni-20at.%Al-30at.%Fe. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1993**, 67, 663-674		9
47	In situ straining of Fe-Al in a transmission electron microscope. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1993**, 67, 479-489		26
46	On In-Situ Study of Dislocation/Grain Boundary Interactions using X-ray Topography and TEM. *Materials Research Society Symposia Proceedings*, **1993**, 319, 203		7
45	Formation of L12-structured Ni3Si. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1993**, 24, 283-292		31
44	Room Temperature Fracture of FeCo. *Materials Research Society Symposia Proceedings*, **1992**, 288, 501		13
43	Effect of accelerating voltage on planar and axial channeling in ordered intermetallic compounds. *Journal of Materials Research*, **1992**, 7, 2119-2125	2.5	26
42	Environmental Effects in B2 FeAl Alloys. *Materials Research Society Symposia Proceedings*, **1992**, 288, 935		7
41	Dynamic observation of dislocation sources at grain boundaries in ice. *Philosophical Magazine Letters*, **1992**, 65, 279-281	1	12
40	Effect of chromium on the environmental sensitivity of FeAl at room temperature. *Scripta Metallurgica Et Materialia*, **1992**, 27, 1823-1828		30
39	Dislocations and grain boundaries in polycrystalline ice: a preliminary study by synchrotron X-ray topography. *Journal of Materials Science*, **1992**, 27, 2719-2725	4.3	15
38	The effect of annealing on Ni?Al?Fe B2 compounds. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1992**, 152, 258-263	5.3	23
37	Slip-plane disordering in stoichiometric Ni3Al. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1991**, 63, 319-335		39
36	Room temperature deformation behavior of multiphase Ni?20at.%Al?30at.%Fe and its constituent phases. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1991**, 131, 27-37	5.3	60
35	Room-temperature deformation of PdIn. *Journal of Materials Science*, **1991**, 26, 4303-4306	4.3	5

34	Ternary atom site location in L12-structured intermetallic compounds. *Journal of Materials Research* , **1991**, 6, 943-949	2.5	34
33	The effect of strain rate on the room-temperature ductility of FeAl. *Scripta Metallurgica Et Materialia*, **1991**, 25, 2577-2580		51
32	The effect of grain size on the yield strength of FeAl and NiAl. *Acta Metallurgica Et Materialia*, **1991**, 39, 1637-1644		93
31	Observation of <001> dislocations and a mechanism for transgranular fracture on {001} in FeAl. *Acta Metallurgica Et Materialia*, **1991**, 39, 1011-1017		58
30	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		42
29	Room Temperature Strength and Fracture of FeAl And NiAl.. *Materials Research Society Symposia Proceedings*, **1990**, 213, 533		5
28	Effect of cooling rate on hardness of FeAl and NiAl. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1990**, 21, 2281-2282		202
27	The strength and ductility of Ni3Si. *Acta Metallurgica Et Materialia*, **1990**, 38, 207-213		33
26	Fractography of ice. *Journal of Materials Science Letters*, **1989**, 8, 1193-1194		10
25	The microstructure of extruded Fe-Al. *Journal of Materials Science*, **1989**, 24, 4246-4252	4.3	44
24	Room temperature tensile ductility in polycrystalline B2 Ni-30Al-20Fe. *Scripta Metallurgica*, **1989**, 23, 897-900		38
23	Dislocations in B2 ordered alloys. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1989**, 47, 314-315		1
22	The effect of boron on the lattice properties of Ni3Al. *Acta Metallurgica*, **1988**, 36, 493-499		60
21	The strength of Ni3Al containing titanium and boron. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1988**, 19, 732-734		1
20	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		90
19	Improving the Low Temperature Ductility of NiAl. *Materials Research Society Symposia Proceedings*, **1988**, 133, 633		14
18	Annealing Studies of B2 FeAl. *Materials Research Society Symposia Proceedings*, **1988**, 133, 755		17
17	Some comments on dislocation bowing and partial separation during in-situ straining of Ni3Al. *Philosophical Magazine Letters*, **1987**, 55, 3-6	1	11

16	Flow and fracture of Fe?Al. *Materials Science and Engineering*, **1987**, 96, 147-158		117
15	The Strength and Ductility of Intermetallic Compounds: Grain Size Effects. *Materials Research Society Symposia Proceedings*, **1986**, 81, 195		3
14	The Microstructure and Tensile Properties of Extruded Melt-Spun Ribbons of Iron-Rich B2 FeAl. *Materials Research Society Symposia Proceedings*, **1986**, 81, 315		5
13	Grain boundary accommodation of slip in Ni3Al containing boron. *Acta Metallurgica*, **1986**, 34, 1395-1399		194
12	A method for determining dislocation BurgersNvectors in ice. *Journal of Electron Microscopy Technique*, **1986**, 3, 357-358		1
11	Displacement Fringes in FeAl. *Physica Status Solidi A*, **1986**, 96, 185-190		38
10	The Effect of Temperature on Dislocation Structures in Ni3Al. *Physica Status Solidi A*, **1985**, 89, 163-172		43
9	Boron-induced grain boundary accommodation of slip in Ni3Al. *Scripta Metallurgica*, **1985**, 19, 1497-1498		31
8	The Structure of Extruded NiAl. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1984**, 15, 1129-1136	2.3	43
7	On Intrinsic Stacking Faults in Polycrystalline Ni3Al. *Physica Status Solidi A*, **1984**, 85, 481-490		37
6	Effect of fine second phase particles on deformation structure in cold rolled copper single crystals. *Metal Science*, **1983**, 17, 459-468		19
5	The Structure of Rapidly Solidified Powders of Ni3Al and Ni3Al + B + Ti. *Materials Research Society Symposia Proceedings*, **1983**, 28, 395		3
4	Mechanical properties of FeAl		16
3	A model for the yield strength anomaly of Fe3Al		3
2	Some Unusual Aspects of the Deformation Of FeAl and Fe2MnAl537-545		
1	Observations of the creep of polar firn. *Journal of Glaciology*,1-19	3.4	1