Alexander H King

List of Publications by Year in Descending Order

179 papers	4,864 citations	38 h-index	65 g-index
187 ext. papers	5,221 ext. citations	4.3 avg, IF	5.51 L-index

#	Paper	IF	Citations
179	Room-temperature grain boundary diffusion data measured from historical artifacts. *International Journal of Materials Research*, **2022**, 96, 1187-1192	0.5	
178	Critical materials for permanent magnets **2022**, 343-370		
177	Kinetics of Magnetic Skyrmion Crystal Formation from the Conical Phase. *Nano Letters*, **2021**, 21, 5547-5554	11.5	
176	Mitigating criticality, part III: Improving the stewardship of existing supplies **2021**, 205-234		0
175	Mitigating criticality, part I: Material substitution **2021**, 123-160		
174	Mitigating criticality, part II: Source diversification **2021**, 161-203		
173	Mechanisms of Skyrmion and Skyrmion Crystal Formation from the Conical Phase. *Nano Letters*, **2020**, 20, 4731-4738	11.5	5
172	Overcoming mechanical fragility in Sm-Co permanent magnet materials. *Acta Materialia*, **2020**, 196, 528-538	8.3	6
171	Our elemental footprint. *Nature Materials*, **2019**, 18, 408-409	27	12
170	Effects of grain boundary disorder on dislocation emission. *Materials Letters*, **2019**, 237, 303-305	3.3	10
169	Addressing Criticality in Rare Earth Elements via Permanent Magnets Recycling. *Jom*, **2018**, 70, 115-123	2.1	22
168	Effects of Ag and Zr solutes on dislocation emission from Σ11(332)[110] symmetric tilt grain boundaries in Cu: Bigger is not always better. *International Journal of Plasticity*, **2018**, 109, 79-87	7.6	14
167	Solute effects on interfacial dislocation emission in nanomaterials: Nucleation site competition and neutralization. *Scripta Materialia*, **2018**, 154, 12-15	5.6	9
166	Effects of solutes on dislocation nucleation from grain boundaries. *International Journal of Plasticity*, **2017**, 90, 146-155	7.6	33
165	High performance aluminum-cerium alloys for high-temperature applications. *Materials Horizons*, **2017**, 4, 1070-1078	14.4	81
164	Effects of stable and unstable stacking fault energy on dislocation nucleation in nano-crystalline metals. *Modelling and Simulation in Materials Science and Engineering*, **2016**, 24, 085017	2	34
163	When agendas align: Critical materials and green electronics **2016**,		3

162	When twins collide: Twin junctions in nanocrystalline nickel. *Acta Materialia*, **2016**, 113, 301-310	8.4	32
161	The Rare Earths as Critical Materials. *Fundamental Theories of Physics*, **2016**, 50, 19-46	0.8	9
160	Effects of Schmid factor and slip nucleation on deformation mechanism in columnar-grained nanotwinned Ag and Cu. *Journal of Applied Physics*, **2015**, 117, 085302	2.5	16
159	Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. *Acta Materialia*, **2015**, 96, 378-389	8.4	39
158	Effect of stacking fault energy on mechanism of plastic deformation in nanotwinned FCC metals. *Modelling and Simulation in Materials Science and Engineering*, **2015**, 23, 055003	2	37
157	Effects of solutes on the thermal stability of nanotwinned materials. *Philosophical Magazine*, **2014**, 94, 2875-2885	1.6	4
156	The interactions of self-interstitials with twin boundaries. *Philosophical Magazine*, **2013**, 93, 1268-1278	1.6	43
155	Structural Transformations in Bismuth Titanates. *Ceramic Transactions*, **2012**, 171-178	0.1	
154	Thermal stability and strength of deformation microstructures in pure copper. *Acta Materialia*, **2012**, 60, 4107-4116	8.4	36
153	Vacancies, twins, and the thermal stability of ultrafine-grained copper. *Applied Physics Letters*, **2011** , 99, 231911	3.4	17
152	Triple lines in materials science and engineering. *Scripta Materialia*, **2010**, 62, 889-893	5.6	35
151	Deformation of hierarchically twinned martensite. *Acta Materialia*, **2010**, 58, 5242-5261	8.4	85
150	Effects of residual (or internal) stress on ferroelectric domain wall motion in tetragonal lead titanate. *Journal of Materials Research*, **2009**, 24, 1803-1809	2.5	3
149	Anomalous triple junction surface pits in nanocrystalline zirconia thin films and their relationship to triple junction energy. *Acta Materialia*, **2009**, 57, 3662-3670	8.4	12
148	A study of the interactive effects of strain, strain rate and temperature in severe plastic deformation of copper. *Acta Materialia*, **2009**, 57, 5491-5500	8.4	118
147	Thermally stable nanostructured materials from severe plastic deformation of precipitation-treatable Ni-based alloys. *Scripta Materialia*, **2008**, 58, 675-678	5.6	32
146	Grain growth and texture development in lithium fluoride thin films. *Journal of Materials Research*, **2008**, 23, 452-462	2.5	5
145	Transformation of ancient Chinese and model two-phase bronze surfaces to smooth adherent patinas. *Phase Transitions*, **2008**, 81, 217-232	1.3	8

144	Read-Shockley Grain Boundaries and the Herring Equation. *Materials Research Society Symposia Proceedings*, **2008**, 1090, 51801		0
143	Strain fields and energies of grain boundary triple junctions. *Acta Materialia*, **2008**, 56, 5728-5736	8.4	26
142	Severe plastic deformation (SPD) and nanostructured materials by machining. *Journal of Materials Science*, **2007**, 42, 1529-1541	4.3	57
141	Severe Plastic Deformation of Difficult-to-Deform Materials at Near-Ambient Temperatures. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2007**, 38, 1899-1905	2.3	23
140	Triple junction energy and prospects for measuring it. *Materials Science and Technology*, **2007**, 23, 505-508	1.5	12
139	Control of porosity in fluoride thin films prepared by vapor deposition. *Journal of Materials Research*, **2007**, 22, 2012-2016	2.5	6
138	How surface stresses lead to size-dependent mechanics of tensile deformation in nanowires. *Applied Physics Letters*, **2007**, 90, 141907	3.4	21
137	Thermal effects on mechanical grinding-induced surface texture in tetragonal piezoelectrics. *Journal of Materials Research*, **2007**, 22, 2845-2850	2.5	11
136	A Mathematical Formulation for Interfacial Diffusion, Incorporating Deviation from the Classical Random Walk Theory. *Defect and Diffusion Forum*, **2007**, 266, 63-71	0.7	
135	Large Strain Deformation of Single-Phase Copper Solid Solutions by Machining. *Materials Science Forum*, **2006**, 503-504, 651-656	0.4	
134	Texture Evolution of Lithium Fluoride Thin Films by Nucleation. *Materials Research Society Symposia Proceedings*, **2006**, 979, 1		
133	Electromechanical Cycling and Thermal Effects on Ferroelastic Domain Orientation. *Ferroelectrics*, **2006**, 334, 49-56	0.6	
132	Thermal effects on domain orientation of tetragonal piezoelectrics studied by in situ x-ray diffraction. *Applied Physics Letters*, **2006**, 88, 242901	3.4	22
131	Fabrication and characterization of solid-state nanopores using a field emission scanning electron microscope. *Applied Physics Letters*, **2006**, 88, 103109	3.4	57
130	Severe plastic deformation (SPD) of titanium at near-ambient temperature. *Acta Materialia*, **2006**, 54, 3691-3700	8.4	90
129	What does it mean to be special? The significance and application of the Brandon criterion. *Journal of Materials Science*, **2006**, 41, 7675-7682	4.3	44
128	Characteristics of aluminum 6061-T6 deformed to large plastic strains by machining. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 410-411, 364-368	5.3	63
127	Large strain deformation and ultra-fine grained materials by machining. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 410-411, 358-363	5.3	92

126	Microstructure and stability of nanocrystalline aluminum 6061 created by large strain machining. *Acta Materialia*, **2005**, 53, 4781-4793	8.4	89
125	Nanomaterial Deposits Formed by DC Plasma Spraying of Liquid Feedstocks. *Journal of the American Ceramic Society*, **2005**, 81, 121-128	3.8	72
124	On the design of controlled tricrystal specimens for the systematic investigation of static grain boundary triple junction properties. *Journal of Materials Science*, **2005**, 40, 2795-2802	4.3	6
123	Texture and Symmetry Relationships in Piezoelectric Materials. *Materials Science Forum*, **2005**, 495-497, 13-22	0.4	5
122	Dislocation-indenter interaction in nanoindentation. *Journal of Applied Physics*, **2005**, 98, 023502	2.5	2
121	Mechanism of structural transformation in bismuth titanate. *Applied Physics Letters*, **2005**, 86, 182902	3.4	14
120	Size-driven domain reorientation in hydrothermally derived lead titanate nanoparticles. *Journal of Materials Research*, **2005**, 20, 558-562	2.5	5
119	Nanostructured Materials by Machining **2005**, 981		1
118	Room-temperature grain boundary diffusion data measured from historical artifacts. *International Journal of Materials Research*, **2005**, 96, 1187-1192		1
117	Effect of different substrate conditions upon interface with plasma sprayed zirconia□ TEM study. *Surface and Coatings Technology*, **2002**, 157, 238-246	4.4	52
116	Low-cost manufacturing process for nanostructured metals and alloys. *Journal of Materials Research*, **2002**, 17, 2484-2488	2.5	75
115	Texture Development and Twinning in Polycrystalline Gold Thin Films. *Materials Research Society Symposia Proceedings*, **2002**, 721, 1		
114	Effects of Triple Line Tension on the Surface Topography of polycrystals. *Materials Research Society Symposia Proceedings*, **2002**, 731, 671		
113	Non-destructive evaluation of delamination in ceramic thin films on metal substrates by scanning electron microscopy. *Thin Solid Films*, **2001**, 385, 22-28	2.2	12
112	Transmission electron microscopy study of rapid solidification of plasma sprayed zirconia □part I. First splat solidification. *Thin Solid Films*, **2001**, 397, 30-39	2.2	60
111	Transmission electron microscopy study of rapid solidification of plasma sprayed zirconia □part II. Interfaces and subsequent splat solidification. *Thin Solid Films*, **2001**, 397, 40-48	2.2	48
110	Focused ion beam/lift-out transmission electron microscopy cross sections of block copolymer films ordered on silicon substrates. *Polymer*, **2001**, 42, 1613-1619	3.9	46
109	The early stages of plastic yielding in polycrystalline gold thin films. *Acta Materialia*, **2001**, 49, 237-247	8.4	35

108	Bicrystal growth and characterization of copper twist grain boundaries. *Journal of Crystal Growth*, **2001**, 222, 392-398	1.6	6
107	The role of segregation in diffusion-induced grain boundary migration. *Acta Materialia*, **2001**, 49, 1-11	8.4	6
106	Dislocation Arrays in the Interfaces between Substrates and Epitaxial Islands. *Materials Research Society Symposia Proceedings*, **2001**, 672, 1		
105	Exploring The Consequences of Negative Triple Junction Energy. *Materials Research Society Symposia Proceedings*, **2001**, 703, 1		
104	Processing Effects on The Morphology of Hydrothermally Derived Nanocrystalline Lead Titanate. *Materials Research Society Symposia Proceedings*, **2001**, 703, 1		
103	Grain Boundary Curvature in Polycrystalline Metallic Thin Films. *Materials Research Society Symposia Proceedings*, **2000**, 615, 781		
102	On the size-dependent phase transformation in nanoparticulate zirconia. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 286, 169-178	5.3	214
101	The effect of triple-junction drag on grain growth. *Acta Materialia*, **2000**, 48, 397-403	8.4	95
100	The properties of DSC lattices at coincidence-site lattice related triple junctions. *Scripta Materialia*, **2000**, 43, 175-179	5.6	3
99	Analysis of the grain boundary misorientation distribution in polycrystalline gold thin films using minimal data. *Scripta Materialia*, **2000**, 42, 301-306	5.6	7
98	Behavior of grain boundary resistivity in metals predicted by a two-dimensional model. *Journal of Applied Physics*, **2000**, 88, 2623-2633	2.5	16
97	Infrared optical properties of Mn1.56Co0.96Ni0.48O4 spinel films sputter deposited in an oxygen partial pressure series. *Journal of Applied Physics*, **1999**, 86, 2590-2601	2.5	35
96	Growth of columnar grains during zirconia-yttria splat solidification. *Journal of Materials Science Letters*, **1999**, 18, 1517-1519		8
95	The Geometric and Thermodynamic Properties of Grain Boundary Junctions. *Journal of Materials Science*, **1999**, 7, 251-271		66
94	Grain Boundary Resistivity and Electrically Induced Grain Boundary Migration (EIGM) in Metallic Bamboo Microstructures. *Journal of Materials Science*, **1999**, 7, 33-44		5
93	Self-Assembled Monolayers of Alkanesulfonic and -phosphonic Acids on Amorphous Iron Oxide Nanoparticles. *Langmuir*, **1999**, 15, 7111-7115	4	235
92	Resistivity, thermopower and the correlation to infrared active vibrations of Mn1.56Co0.96Ni0.48O4 spinel films sputtered in an oxygen partial pressure series. *Journal of Applied Physics*, **1999**, 86, 514-523	2.5	52
91	Novel One-Phase Synthesis of Thiol-Functionalized Gold, Palladium, and Iridium Nanoparticles Using Superhydride. *Langmuir*, **1999**, 15, 3486-3491	4	264

90	Triple Junction Engineering: the Distribution of Triple Junctions in Polycrystalline Gold Thin Films. *Materials Research Society Symposia Proceedings*, **1999**, 586, 117		
89	Grain rotation in thin films of gold. *Acta Materialia*, **1998**, 46, 2623-2633	8.4	178
88	Direct observation of diffusional creep via TEM in polycrystalline thin films of gold. *Acta Materialia*, **1998**, 46, 6195-6203	8.4	30
87	Interfaces in Rapidly Solidified Zirconia-Yttria. *Materials Science Forum*, **1998**, 294-296, 779-782	0.4	1
86	Triple Junction Structure and Properties. *Materials Science Forum*, **1998**, 294-296, 91-94	0.4	3
85	On the correlation of grain boundary misorientation distribution with critical current in bulk processed YBa2Cu3O7-*Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1998**, 78, 1037-1049		3
84	The Influence of Anisotropic Grain Boundary Energy on Triple Junction Morphology and Grain Growth. *Materials Research Society Symposia Proceedings*, **1998**, 529, 9		
83	Primary and Secondary Grain Boundary Dislocations in Symmetric Tilt Grain Boundaries of Finite Length. *Materials Research Society Symposia Proceedings*, **1998**, 538, 407		
82	Phase Transformation as a Function of Particle Size in Nanocrystalline Zirconia. *Materials Research Society Symposia Proceedings*, **1997**, 481, 613		4
81	Tem Study of Yielding in Polycrystalline Gold Thin Films. *Materials Research Society Symposia Proceedings*, **1997**, 505, 383		4
80	Curling and Annealing Study of Sputtered Thin Spinel Films Delaminated from Lift-Off Polyimide. *Materials Research Society Symposia Proceedings*, **1997**, 505, 487		
79	Read-Shockley Boundaries in Thin Films. *Materials Research Society Symposia Proceedings*, **1997**, 472, 113		2
78	Analyses of the Grain Boundary Misorientation and Oxygen Content of Bulk Processed YBa2Cu3O7-*Materials Research Society Symposia Proceedings*, **1997**, 472, 99		
77	Preparation of nanophase materials by thermal spray processing of liquid precursors. *Scripta Materialia*, **1997**, 9, 137-140		70
76	Nanomaterial powders and deposits prepared by flame spray processing of liquid precursors. *Scripta Materialia*, **1997**, 8, 61-74		95
75	Segregation of Bismuth to Triple Junctions in Copper. *Microscopy and Microanalysis*, **1997**, 3, 417-422	0.5	38
74	Toward Understanding Polycrystalline Aggregate Structure: Analysis of a Twin Intersection and the Interactions Between Interfaces in Diamond. *Journal of Materials Science*, **1997**, 5, 287-303		15
73	Some further microstructural characteristics of face-centered cubic polycrystalline metal thin films. *Journal of Electronic Materials*, **1997**, 26, 987-995	1.9	8

72	The incidence of symmetric tilt grain boundaries in polycrystalline thin films of gold. *Scripta Materialia*, **1996**, 34, 1723-1727	5.6	12
71	Selective Dissolution in Copper-Tin Alloys: Formation of Corrosion-Resistant Patina on Ancient Chinese Bronze Mirrors. *Materials Research Society Symposia Proceedings*, **1996**, 432, 283		1
70	Grain Rotation and Grain Boundary Selection in Thin Films. *Materials Research Society Symposia Proceedings*, **1996**, 458, 301		1
69	Investigation of the Altered Layer on Ancient Chinese Bronze Mirrors and Model High-Tin Bronzes. *Materials Research Society Symposia Proceedings*, **1996**, 462, 19		
68	Diffusion induced grain boundary migration in the zinc-cadmium system. *Acta Materialia*, **1996**, 44, 2983-2998	2.4	6
67	Grain Boundaries of Finite Extent. *Materials Science Forum*, **1996**, 207-209, 125-128	0.4	3
66	Grain Rotation and Microstructure Development in Thin Films of Gold. *Materials Science Forum*, **1996**, 204-206, 355-360	0.4	5
65	Analysis of Symmetric Triple Junctions. *Materials Science Forum*, **1996**, 207-209, 257-260	0.4	1
64	Diffusion Induced Grain Boundary Migration in Hexagonal Materials. *Materials Science Forum*, **1996**, 207-209, 497-500	0.4	
63	Grain Boundaries of Finit Lenght. *Materials Science Forum*, **1995**, 189-190, 143-148	0.4	2
62	Time and Temperature Properties of Triblock Copolymer Ordering. *Materials Science Forum*, **1995**, 189-190, 161-166	0.4	
61	Dynamic Properties of Interfaces. *Materials Science Forum*, **1995**, 189-190, 19-30	0.4	1
60	Hillock Formation in Tensile Loaded Films. *Materials Research Society Symposia Proceedings*, **1995**, 391, 73		4
59	Grain Rotation in Thin Films of Gold. *Materials Research Society Symposia Proceedings*, **1995**, 403, 15		3
58	Generalizing the coincidence site lattice model to non-cubic materials. *Journal of Physics and Chemistry of Solids*, **1994**, 55, 1023-1033	3.9	14
57	Principles of grain boundary geometry in noncubic materials, with applications to YBa2Cu3O7-□ *Journal of Materials Science*, **1994**, 1, 347		1
56	Transmission electron microscopy detection of microtexture variations and their effects on thin film stability. *Journal of Electronic Materials*, **1994**, 23, 1035-1041	1.9	7
55	Complications of diffusional creep at very small grain sizes. *Scripta Metallurgica Et Materialia*, **1994**, 31, 1493-1494		6

54	Surface-Induced Ordering in Asymmetric Block Copolymers. *Macromolecules*, **1994**, 27, 4000-4010	5.5	107
53	Grain Growth Suppression and Enhancement by Interdiffusion in Thin Films. *Materials Research Society Symposia Proceedings*, **1994**, 343, 33		7
52	A TEM Investigation of the Effects of Tensile Stress on Thin Film Microstructure and Surface Morphology. *Materials Research Society Symposia Proceedings*, **1994**, 356, 75		7
51	The Interaction of Twin Boundaries with Grain Boundaries in YBa2Cu3O7-□*Materials Research Society Symposia Proceedings*, **1994**, 357, 133		
50	Tem Study of Growth Defects in CVD Diamond Films. *Materials Research Society Symposia Proceedings*, **1994**, 363, 169		
49	A geometrical rationalization of the special properties of the 14□[001] grain boundary in YBa2Cu3O7□*Journal of Applied Physics*, **1993**, 74, 4627-4630	2.5	5
48	Twin-corner disclinations in YBa2CU3O7-□*Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1993**, 67, 1037-1044		23
47	Localized Texture Formation and its Detection in Polycrystalline Thin Films of Gold. *Materials Research Society Symposia Proceedings*, **1993**, 317, 425		4
46	Tables of coincidence orientations for ordered tetragonal L10 alloys for a range of axial ratios. *Acta Crystallographica Section B: Structural Science*, **1993**, 49, 266-272		6
45	TEM observations of the mechanism of delamination of chromium films from silicon substrates. *Journal of Materials Research*, **1992**, 7, 359-366	2.5	4
44	Dissociation of grain boundaries induced by changes of composition, the ejection of dislocations from grain boundaries, and the nucleation of diffusion induced grain boundary migration. *Acta Metallurgica Et Materialia*, **1992**, 40, 551-558		9
43	Crack tip-dislocation loop interactions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1991**, 148, 155-162	5.3	
42	The geometry and properties of ledges in interfaces. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1991**, 22, 1177-1183		5
41	The interaction between dislocations and intergranular cracks. *Journal of Materials Research*, **1991**, 6, 314-323	2.5	6
40	Observations of grain boundary structure in zinc. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1991**, 63, 1023-1033		11
39	Plasticity enhancement through disordering at grain boundaries. *Scripta Metallurgica Et Materialia*, **1991**, 25, 1249-1252		10
38	Grain Growth in Titanium Silicide Films During the Formation Reaction. *Materials Research Society Symposia Proceedings*, **1990**, 202, 137		1
37	Coincidence orientations of crystals in tetragonal systems, with applications to YBa2Cu3O7□*Acta Crystallographica Section B: Structural Science*, **1990**, 46, 117-125		26

36	Bicrystal studies of diffusion-induced grain boundary migration in Cu/Zn. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1990**, 21, 2363-2367		22
35	Intergranular fracture by slip/grain boundary interaction. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1990**, 21, 2431-2436		15
34	Grain boundary diffusion and growth of titanium silicide layers on silicon. *Journal of Electronic Materials*, **1990**, 19, 1177-1183	1.9	62
33	Adsorption, surface energy and the driving force for the migration of grain boundaries in substitutional alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1990**, 123, 39-43	5.3	3
32	Dislocation structures in large-angle grain boundaries in hexagonal close-packed materials. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1989**, 113, 121-127	5.3	15
31	Misorientation effects upon diffusion induced grain boundary migration in the copper-zinc system. *Acta Metallurgica*, **1988**, 36, 2827-2839		35
30	Structure of a small angle tilt grain boundary in zinc. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1988**, 19, 2359-2363		3
29	Large-angle grain-boundary structures in hexagonal close-packed metals. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1988**, 57, 431-455		38
28	Slip, twinning, and fracture at a grain boundary in the L12 ordered structure□ = 9 tilt boundary. *Journal of Materials Research*, **1988**, 3, 848-855	2.5	15
27	Diffusion induced grain boundary migration. *International Materials Reviews*, **1987**, 32, 173-189	16.1	141
26	On the selectivity of certain experiments on diffusion induced grain boundary migration. *Scripta Metallurgica*, **1987**, 21, 541-542		
25	On the availability of dislocation reactions at grain boundaries in cubic ordered alloys. *Scripta Metallurgica*, **1987**, 21, 1115-1119		40
24	On the nucleation of diffusion induced recrystallization. *Scripta Metallurgica*, **1987**, 21, 649-652		11
23	Determination of the crystallographic directions and planes of features and of the misorientations of crystals with high accuracy and internal estimation of errors. *Journal of Electron Microscopy Technique*, **1987**, 6, 55-61		21
22	The further geometry of grain boundaries in hexagonal close-packed metals. *Acta Crystallographica Section B: Structural Science*, **1987**, 43, 416-422		23
21	Effects of thermomechanical treatment on the progress of diffusion-induced grain boundary migration. *Materials Science and Engineering*, **1986**, 83, 109-114		5
20	Energy-minimizing structures for interfacial dislocation arrays: Non-planar configuration in small-angle grain boundaries. *Materials Science and Engineering*, **1986**, 81, 51-59		4
19	Vacancy deposition during diffusion-induced grain boundary migration. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1986**, 54, L3-L7		13

18	The misorientation depedence of diffusion induced grain boundary migration. *Scripta Metallurgica*, **1986**, 20, 1401-1404	36
17	Applications of computer simulation techniques to problems encountered in conventional plasma spraying. *Materials Science and Engineering*, **1985**, 70, 211-216	1
16	On the kinetics of dislocation absorption by grain boundaries. *Scripta Metallurgica*, **1985**, 19, 1517-1520	17
15	Grain boundary viscosity at high temperature and the grain boundary phase transformation. *Scripta Metallurgica*, **1985**, 19, 291-294	2
14	Interactions between lattice partial dislocations and grain boundaries. *Materials Science and Engineering*, **1984**, 66, 227-237	37
13	Partial dislocation-grain boundary interactions in b.c.c. crystals. *Materials Science and Engineering*, **1984**, 66, L25-L26	
12	An unexpected grain size effect in diffusion induced grain boundary migration. *Scripta Metallurgica*, **1984**, 18, 1341-1343	9
11	Evidence of the formation of twins by deformation and growth-accidents in evaporated thin films of gold. *Physica Status Solidi A*, **1983**, 76, 629-636	6
10	Some problems with the grain-boundary-dislocation climb mechanism for diffusion-induced grain boundary migration, and possible solutions. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1983**, 48, L39-L44	12
9	Further comments on the appropriateness of stacking fault energy - to - mechanical property correlations. *Scripta Metallurgica*, **1982**, 16, 1181-1182	12
8	CSL/DSC Lattice model for general crystalcrystal boundaries and their line defects. *Acta Metallurgica*, **1982**, 30, 1453-1470	283
7	Step heights associated with grain boundary dislocations in cubic crystals. *Acta Metallurgica*, **1982**, 30, 419-427	49
6	Calculations of sink strength and bias for point-defect absorption by dislocations in arrays. *Radiation Effects*, **1981**, 54, 169-176	14
5	Properties and effects of pure steps or facets on grain boundaries: Application to diffusion induced grain boundary migration. *Scripta Metallurgica*, **1981**, 15, 1221-1225	19
4	On the mechanism of diffusion-induced boundary migration. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1981**, 44, 333-340	78
3	The effects on grain-boundary processes of the steps in the boundary plane associated with the cores of grain-boundary dislocations. *The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography*, **1980**, 36, 335-343	141
2	On the mechanisms of point-defect absorption by grain and twin boundaries. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1980**, 42, 495-512	63
1	Remarks on the energy-misorientation relationship of grain boundaries *Scripta Metallurgica*, **1980**, 14, 1157-1160	6