## Alexander H King

List of Publications by Year in descending order

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186 papers 5,675 citations

66343 42 h-index 71 g-index

188 all docs 188 docs citations

188 times ranked 4703 citing authors

#	Article	IF	CITATIONS
1	Room-temperature grain boundary diffusion data measured from historical artifacts. International Journal of Materials Research, 2022, 96, 1187-1192.	0.3	O
2	Critical materials for permanentÂmagnets. , 2022, , 343-370.		1
3	Mitigating criticality, part III: Improving the stewardship of existing supplies. , 2021, , 205-234.		1
4	Mitigating criticality, part I: Material substitution. , 2021, , 123-160.		O
5	Mitigating criticality, part II: Source diversification. , 2021, , 161-203.		1
6	Kinetics of Magnetic Skyrmion Crystal Formation from the Conical Phase. Nano Letters, 2021, 21, 5547-5554.	9.1	0
7	Mechanisms of Skyrmion and Skyrmion Crystal Formation from the Conical Phase. Nano Letters, 2020, 20, 4731-4738.	9.1	14
8	Overcoming mechanical fragility in Sm-Co permanent magnet materials. Acta Materialia, 2020, 196, 528-538.	7.9	20
9	Our elemental footprint. Nature Materials, 2019, 18, 408-409.	27.5	20
10	Effects of grain boundary disorder on dislocation emission. Materials Letters, 2019, 237, 303-305.	2.6	13
11	Faster: Accelerating the Transition from Materials Discovery to Commercial Deployment. Jom, 2019, 71, 10-13.	1.9	2
12	Addressing Criticality in Rare Earth Elements via Permanent Magnets Recycling. Jom, 2018, 70, 115-123.	1.9	27
13	Effects of Ag and Zr solutes on dislocation emission from $\hat{l}$ £11(332)[110] symmetric tilt grain boundaries in Cu: Bigger is not always better. International Journal of Plasticity, 2018, 109, 79-87.	8.8	23
14	Solute effects on interfacial dislocation emission in nanomaterials: Nucleation site competition and neutralization. Scripta Materialia, 2018, 154, 12-15.	5.2	17
15	Effects of solutes on dislocation nucleation from grain boundaries. International Journal of Plasticity, 2017, 90, 146-155.	8.8	47
16	High performance aluminum–cerium alloys for high-temperature applications. Materials Horizons, 2017, 4, 1070-1078.	12.2	155
17	When agendas align: Critical materials and green electronics. , 2016, , .		4
18	When twins collide: Twin junctions in nanocrystalline nickel. Acta Materialia, 2016, 113, 301-310.	7.9	47

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19	The Rare Earths as Critical Materials. Fundamental Theories of Physics, 2016, 50, 19-46.	0.3	10
20	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.	2.0	55
21	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.	2.0	49
22	The importance of elemental sustainability and critical element recovery. Green Chemistry, 2015, 17, 1949-1950.	9.0	55
23	Effects of Schmid factor and slip nucleation on deformation mechanism in columnar-grained nanotwinned Ag and Cu. Journal of Applied Physics, 2015, 117, .	2.5	17
24	Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. Acta Materialia, 2015, 96, 378-389.	7.9	50
25	Effects of solutes on the thermal stability of nanotwinned materials. Philosophical Magazine, 2014, 94, 2875-2885.	1.6	4
26	The interactions of self-interstitials with twin boundaries. Philosophical Magazine, 2013, 93, 1268-1278.	1.6	58
27	Thermal stability and strength of deformation microstructures in pure copper. Acta Materialia, 2012, 60, 4107-4116.	7.9	43
28	Vacancies, twins, and the thermal stability of ultrafine-grained copper. Applied Physics Letters, 2011, 99, .	3.3	21
29	Triple lines in materials science and engineering. Scripta Materialia, 2010, 62, 889-893.	5.2	38
30	Deformation of hierarchically twinned martensite. Acta Materialia, 2010, 58, 5242-5261.	7.9	99
31	Effects of residual (or internal) stress on ferroelectric domain wall motion in tetragonal lead titanate. Journal of Materials Research, 2009, 24, 1803-1809.	2.6	4
32	Anomalous triple junction surface pits in nanocrystalline zirconia thin films and their relationship to triple junction energy. Acta Materialia, 2009, 57, 3662-3670.	7.9	14
33	A study of the interactive effects of strain, strain rate and temperature in severe plastic deformation of copper. Acta Materialia, 2009, 57, 5491-5500.	7.9	147
34	Learning about the Learning Curve. MRS Bulletin, 2009, 34, 888-888.	3.5	0
35	Strain fields and energies of grain boundary triple junctions. Acta Materialia, 2008, 56, 5728-5736.	7.9	31
36	Thermally stable nanostructured materials from severe plastic deformation of precipitation-treatable Ni-based alloys. Scripta Materialia, 2008, 58, 675-678.	5.2	35

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37	Grain growth and texture development in lithium fluoride thin films. Journal of Materials Research, 2008, 23, 452-462.	2.6	6
38	Transformation of ancient Chinese and model two-phase bronze surfaces to smooth adherent patinas. Phase Transitions, 2008, 81, 217-232.	1.3	10
39	Read-Shockley Grain Boundaries and the Herring Equation. Materials Research Society Symposia Proceedings, 2008, 1090, 51801.	0.1	1
40	Summer Reading. MRS Bulletin, 2008, 33, 720-720.	3.5	0
41	Triple junction energy and prospects for measuring it. Materials Science and Technology, 2007, 23, 505-508.	1.6	12
42	Control of porosity in fluoride thin films prepared by vapor deposition. Journal of Materials Research, 2007, 22, 2012-2016.	2.6	8
43	How surface stresses lead to size-dependent mechanics of tensile deformation in nanowires. Applied Physics Letters, 2007, 90, 141907.	3.3	21
44	Thermal effects on mechanical grinding-induced surface texture in tetragonal piezoelectrics. Journal of Materials Research, 2007, 22, 2845-2850.	2.6	12
45	A Mathematical Formulation for Interfacial Diffusion, Incorporating Deviation from the Classical Random Walk Theory. Defect and Diffusion Forum, 2007, 266, 63-71.	0.4	0
46	Severe plastic deformation (SPD) and nanostructured materials by machining. Journal of Materials Science, 2007, 42, 1529-1541.	3.7	71
47	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.	2.2	32
48	The Scales of Judgment. MRS Bulletin, 2006, 31, 712-712.	3.5	0
49	Severe plastic deformation (SPD) of titanium at near-ambient temperature. Acta Materialia, 2006, 54, 3691-3700.	7.9	102
50	What does it mean to be special? The significance and application of the Brandon criterion. Journal of Materials Science, 2006, 41, 7675-7682.	3.7	50
51	Large Strain Deformation of Single-Phase Copper Solid Solutions by Machining. Materials Science Forum, 2006, 503-504, 651-656.	0.3	0
52	Texture Evolution of Lithium Fluoride Thin Films by Nucleation. Materials Research Society Symposia Proceedings, 2006, 979, 1.	0.1	0
53	Electromechanical Cycling and Thermal Effects on Ferroelastic Domain Orientation. Ferroelectrics, 2006, 334, 49-56.	0.6	0
54	Thermal effects on domain orientation of tetragonal piezoelectrics studied by in situ x-ray diffraction. Applied Physics Letters, 2006, 88, 242901.	3.3	23

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55	Fabrication and characterization of solid-state nanopores using a field emission scanning electron microscope. Applied Physics Letters, 2006, 88, 103109.	3.3	73
56	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.	5.6	76
57	Large strain deformation and ultra-fine grained materials by machining. Materials Science & Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 358-363.	5.6	106
58	Microstructure and stability of nanocrystalline aluminum 6061 created by large strain machining. Acta Materialia, 2005, 53, 4781-4793.	7.9	98
59	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.	3.7	6
60	Texture and Symmetry Relationships in Piezoelectric Materials. Materials Science Forum, 2005, 495-497, 13-22.	0.3	5
61	Dislocation-indenter interaction in nanoindentation. Journal of Applied Physics, 2005, 98, 023502.	2.5	2
62	Mechanism of structural transformation in bismuth titanate. Applied Physics Letters, 2005, 86, 182902.	3.3	14
63	Size-driven domain reorientation in hydrothermally derived lead titanate nanoparticles. Journal of Materials Research, 2005, 20, 558-562.	2.6	5
64	Nanostructured Materials by Machining. , 2005, , 981.		2
65	Room-temperature grain boundary diffusion data measured from historical artifacts. International Journal of Materials Research, 2005, 96, 1187-1192.	0.8	1
66	Low-cost manufacturing process for nanostructured metals and alloys. Journal of Materials Research, 2002, 17, 2484-2488.	2.6	91
67	Texture Development and Twinning in Polycrystalline Gold Thin Films. Materials Research Society Symposia Proceedings, 2002, 721, 1.	0.1	0
68	Effect of different substrate conditions upon interface with plasma sprayed zirconia—a TEM study. Surface and Coatings Technology, 2002, 157, 238-246.	4.8	54
69	Effects of Triple Line Tension on the Surface Topography of Polycrystals. Materials Research Society Symposia Proceedings, 2002, 731, 671.	0.1	1
70	Dislocation Arrays in the Interfaces between Substrates and Epitaxial Islands. Materials Research Society Symposia Proceedings, 2001, 672, 1.	0.1	0
71	Exploring The Consequences of Negative Triple Junction Energy. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	0
72	Processing Effects on The Morphology of Hydrothermally Derived Nanocrystalline Lead Titanate. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	0

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73	Non-destructive evaluation of delamination in ceramic thin films on metal substrates by scanning electron microscopy. Thin Solid Films, 2001, 385, 22-28.	1.8	13
74	Transmission electron microscopy study of rapid solidification of plasma sprayed zirconia â€" part I. First splat solidification. Thin Solid Films, 2001, 397, 30-39.	1.8	63
75	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.	1.8	52
76	Focused ion beam/lift-out transmission electron microscopy cross sections of block copolymer films ordered on silicon substrates. Polymer, 2001, 42, 1613-1619.	3.8	51
77	The early stages of plastic yielding in polycrystalline gold thin films. Acta Materialia, 2001, 49, 237-247.	7.9	38
78	Bicrystal growth and characterization of copper twist grain boundaries. Journal of Crystal Growth, 2001, 222, 392-398.	1.5	11
79	The role of segregation in diffusion-induced grain boundary migration. Acta Materialia, 2001, 49, 1-11.	7.9	9
80	Grain Boundary Curvature in Polycrystalline Metallic Thin Films. Materials Research Society Symposia Proceedings, 2000, 615, 781.	0.1	0
81	On the size-dependent phase transformation in nanoparticulate zirconia. Materials Science & Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 169-178.	5.6	236
82	The effect of triple-junction drag on grain growth. Acta Materialia, 2000, 48, 397-403.	7.9	109
83	The properties of DSC lattices at coincidence-site lattice related triple junctions. Scripta Materialia, 2000, 43, 175-179.	5.2	5
84	Analysis of the grain boundary misorientation distribution in polycrystalline gold thin films using minimal data. Scripta Materialia, 2000, 42, 301-306.	5.2	7
85	Behavior of grain boundary resistivity in metals predicted by a two-dimensional model. Journal of Applied Physics, 2000, 88, 2623-2633.	2.5	17
86	Interfaces in Rapidly Solidified Zirconia-Yttria. Materials Science Forum, 1999, 294-296, 779-782.	0.3	1
87	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	39
88	Growth of columnar grains during zirconia-yttria splat solidification. Journal of Materials Science Letters, 1999, 18, 1517-1519.	0.5	8
89	The Geometric and Thermodynamic Properties of Grain Boundary Junctions. Journal of Materials Science, 1999, 7, 251-271.	1.2	75
90	Title is missing!. Journal of Materials Science, 1999, 7, 33-44.	1.2	6

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91	Self-Assembled Monolayers of Alkanesulfonic and -phosphonic Acids on Amorphous Iron Oxide Nanoparticles. Langmuir, 1999, 15, 7111-7115.	3.5	251
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	65
93	Novel One-Phase Synthesis of Thiol-Functionalized Gold, Palladium, and Iridium Nanoparticles Using Superhydride. Langmuir, 1999, 15, 3486-3491.	3.5	284
94	Triple Junction Engineering: the Distribution of Triple Junctions in Polycrystalline Gold Thin Films. Materials Research Society Symposia Proceedings, 1999, 586, 117.	0.1	0
95	Grain rotation in thin films of gold. Acta Materialia, 1998, 46, 2623-2633.	7.9	202
96	Direct observation of diffusional creep via TEM in polycrystalline thin films of gold. Acta Materialia, 1998, 46, 6195-6203.	7.9	36
97	Triple Junction Structure and Properties. Materials Science Forum, 1998, 294-296, 91-94.	0.3	3
98	On the correlation of grain boundary misorientation distribution with critical current in bulk processed YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-Î</sub> . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 1037-1049.	0.6	3
99	The Influence of Anisotropic Grain Boundary Energy on Triple Junction Morphology and Grain Growth. Materials Research Society Symposia Proceedings, 1998, 529, 9.	0.1	0
100	Primary and Secondary Grain Boundary Dislocations in Symmetric Tilt Grain Boundaries of Finite Length. Materials Research Society Symposia Proceedings, 1998, 538, 407.	0.1	0
101	Nanomaterial Deposits Formed by DC Plasma Spraying of Liquid Feedstocks. Journal of the American Ceramic Society, 1998, 81, 121-128.	3.8	88
102	Phase Transformation as a Function of Particle Size in Nanocrystalline Zirconia. Materials Research Society Symposia Proceedings, 1997, 481, 613.	0.1	4
103	Tem Study of Yielding in Polycrystalline Gold Thin Films. Materials Research Society Symposia Proceedings, 1997, 505, 383.	0.1	4
104	Curling and Annealing Study of Sputtered Thin Spinel Films Delaminated from Lift-Off Polyimide. Materials Research Society Symposia Proceedings, 1997, 505, 487.	0.1	0
105	Read-Shockley Boundaries in Thin Films. Materials Research Society Symposia Proceedings, 1997, 472, 113.	0.1	2
106	Analyses of the Grain Boundary Misorientation and Oxygen Content of Bulk Processed YBa2Cu3O7-Î'. Materials Research Society Symposia Proceedings, 1997, 472, 99.	0.1	0
107	Preparation of nanophase materials by thermal spray processing of liquid precursors. Scripta Materialia, 1997, 9, 137-140.	0.5	79
108	Nanomaterial powders and deposits prepared by flame spray processing of liquid precursors. Scripta Materialia, 1997, 8, 61-74.	0.5	107

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109	Segregation of Bismuth to Triple Junctions in Copper. Microscopy and Microanalysis, 1997, 3, 417-422.	0.4	41
110	Title is missing!. Journal of Materials Science, 1997, 5, 287-303.	1.2	17
111	Some further microstructural characteristics of face-centered cubic polycrystalline metal thin films. Journal of Electronic Materials, 1997, 26, 987-995.	2.2	8
112	The incidence of symmetric tilt grain boundaries in polycrystalline thin films of gold. Scripta Materialia, 1996, 34, 1723-1727.	5 <b>.</b> 2	15
113	Selective Dissolution in Copper-Tin Alloys: Formation of Corrosion-Resistant Patina on Ancient Chinese Bronze Mirrors. Materials Research Society Symposia Proceedings, 1996, 432, 283.	0.1	2
114	Grain Rotation and Grain Boundary Selection in Thin Films. Materials Research Society Symposia Proceedings, 1996, 458, 301.	0.1	1
115	Investigation of the Altered Layer on Ancient Chinese Bronze Mirrors and Model High-Tin Bronzes. Materials Research Society Symposia Proceedings, 1996, 462, 19.	0.1	0
116	Diffusion induced grain boundary migration in the zinc-cadmium system. Acta Materialia, 1996, 44, 2983-2998.	7.9	7
117	Grain Boundaries of Finite Extent. Materials Science Forum, 1996, 207-209, 125-128.	0.3	3
118	Grain Rotation and Microstructure Development in Thin Films of Gold. Materials Science Forum, 1996, 204-206, 355-360.	0.3	5
119	Analysis of Symmetric Triple Junctions. Materials Science Forum, 1996, 207-209, 257-260.	0.3	1
120	Diffusion Induced Grain Boundary Migration in Hexagonal Materials. Materials Science Forum, 1996, 207-209, 497-500.	0.3	0
121	Hillock Formation in Tensile Loaded Films. Materials Research Society Symposia Proceedings, 1995, 391, 73.	0.1	4
122	Grain Rotation in Thin Films of Gold. Materials Research Society Symposia Proceedings, 1995, 403, 15.	0.1	3
123	Grain Boundaries of Finit Lenght. Materials Science Forum, 1995, 189-190, 143-148.	0.3	3
124	Time and Temperature Properties of Triblock Copolymer Ordering. Materials Science Forum, 1995, 189-190, 161-166.	0.3	0
125	Dynamic Properties of Interfaces. Materials Science Forum, 1995, 189-190, 19-30.	0.3	1
126	The use and control of grain boundaries in thin films. Canadian Metallurgical Quarterly, 1995, 34, 155-163.	1.2	0

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127	Generalizing the coincidence site lattice model to non-cubic materials. Journal of Physics and Chemistry of Solids, 1994, 55, 1023-1033.	4.0	16
128	Principles of grain boundary geometry in noncubic materials, with applications to YBa2Cu3O7-?. Journal of Materials Science, 1994, 1, 347.	1.2	1
129	Transmission electron microscopy detection of microtexture variations and their effects on thin film stability. Journal of Electronic Materials, 1994, 23, 1035-1041.	2.2	9
130	Complications of diffusional creep at very small grain sizes. Scripta Metallurgica Et Materialia, 1994, 31, 1493-1494.	1.0	6
131	Surface-Induced Ordering in Asymmetric Block Copolymers. Macromolecules, 1994, 27, 4000-4010.	4.8	119
132	Grain Growth Suppression and Enhancement by Interdiffusion in Thin Films. Materials Research Society Symposia Proceedings, 1994, 343, 33.	0.1	8
133	A Tem Investigation of the Effects of Tensile Stress on Thin Film Microstructure and Surface Morphology. Materials Research Society Symposia Proceedings, 1994, 356, 75.	0.1	7
134	The Interaction of Twin Boundaries with Grain Boundaries in YBa2Cu3O7-δ. Materials Research Society Symposia Proceedings, 1994, 357, 133.	0.1	0
135	TEM Study of Growth Defects in CVD Diamond Films. Materials Research Society Symposia Proceedings, 1994, 363, 169.	0.1	0
136	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.	1.8	7
137	A geometrical rationalization of the special properties of the 14° [001] grain boundary in YBa2Cu3O7â^δ. Journal of Applied Physics, 1993, 74, 4627-4630.	2.5	6
138	Twin-corner disclinations in YBa2CU3O7-δ. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 1037-1044.	0.6	27
139	Localized Texture Formation and its Detection in Polycrystalline Thin Films of Gold. Materials Research Society Symposia Proceedings, 1993, 317, 425.	0.1	5
140	TEM observations of the mechanism of delamination of chromium films from silicon substrates. Journal of Materials Research, 1992, 7, 359-366.	2.6	5
141	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.	1.8	10
142	Plasticity enhancement through disordering at grain boundaries. Scripta Metallurgica Et Materialia, 1991, 25, 1249-1252.	1.0	10
143	Crack tip-dislocation loop interactions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 148, 155-162.	5.6	1
144	The geometry and properties of ledges in interfaces. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 1177-1183.	1.4	5

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145	The interaction between dislocations and intergranular cracks. Journal of Materials Research, 1991, 6, 314-323.	2.6	7
146	Observations of grain boundary structure in zinc. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 63, 1023-1033.	0.6	17
147	Grain Growth in Titanium Silicide Films During the Formation Reaction. Materials Research Society Symposia Proceedings, 1990, 202, 137.	0.1	1
148	Coincidence orientations of crystals in tetragonal systems, with applications to YBa2Cu3O7â <sup>^</sup> δ. Acta Crystallographica Section B: Structural Science, 1990, 46, 117-125.	1.8	26
149	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.	1.4	24
150	Intergranular fracture by slip/grain boundary interaction. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 2431-2436.	1.4	15
151	Grain boundary diffusion and growth of titanium silicide layers on silicon. Journal of Electronic Materials, 1990, 19, 1177-1183.	2.2	75
152	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.	5.6	3
153	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.	5.6	16
154	Misorientation effects upon diffusion induced grain boundary migration in the copper-zinc system. Acta Metallurgica, 1988, 36, 2827-2839.	2.1	45
155	Structure of a small angle tilt grain boundary in zinc. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 2359-2363.	1.4	3
156	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.	0.6	42
157	Slip, twinning, and fracture at a grain boundary in the L1 <sub>2</sub> ordered structure—AΣ = 9 tilt boundary. Journal of Materials Research, 1988, 3, 848-855.	2.6	16
158	GRAIN BOUNDARY STRUCTURE IN HCP METAL. Journal De Physique Colloque, 1988, 49, C5-195-C5-200.	0.2	0
159	DEPENDENCE OF DIFFUSION-INDUCED GRAIN BOUNDARY MIGRATION ON GRAIN BOUNDARY STRUCTURE. Journal De Physique Colloque, 1988, 49, C5-617-C5-622.	0.2	0
160	Diffusion induced grain boundary migration. International Materials Reviews, 1987, 32, 173-189.	19.3	172
161	On the selectivity of certain experiments on diffusion induced grain boundary migration. Scripta Metallurgica, 1987, 21, 541-542.	1.2	0
162	On the availability of dislocation reactions at grain boundaries in cubic ordered alloys. Scripta Metallurgica, 1987, 21, 1115-1119.	1.2	42

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163	On the nucleation of diffusion induced recrystallization. Scripta Metallurgica, 1987, 21, 649-652.	1.2	12
164	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.	1.1	22
165	The further geometry of grain boundaries in hexagonal close-packed metals. Acta Crystallographica Section B: Structural Science, 1987, 43, 416-422.	1.8	27
166	The misorientation depedence of diffusion induced grain boundary migration. Scripta Metallurgica, 1986, 20, 1401-1404.	1.2	41
167	Effects of thermomechanical treatment on the progress of diffusion-induced grain boundary migration. Materials Science and Engineering, 1986, 83, 109-114.	0.1	5
168	Energy-minimizing structures for interfacial dislocation arrays: Non-planar configuration in small-angle grain boundaries. Materials Science and Engineering, 1986, 81, 51-59.	0.1	4
169	Vacancy deposition during diffusion-induced grain boundary migration. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1986, 54, L3-L7.	0.6	13
170	Applications of computer simulation techniques to problems encountered in conventional plasma spraying. Materials Science and Engineering, 1985, 70, 211-216.	0.1	1
171	On the kinetics of dislocation absorption by grain boundaries. Scripta Metallurgica, 1985, 19, 1517-1520.	1.2	17
172	Grain boundary viscosity at high temperature and the grain boundary phase transformation. Scripta Metallurgica, 1985, 19, 291-294.	1.2	3
173	Interactions between lattice partial dislocations and grain boundaries. Materials Science and Engineering, 1984, 66, 227-237.	0.1	41
174	Partial dislocation-grain boundary interactions in b.c.c. crystals. Materials Science and Engineering, 1984, 66, L25-L26.	0.1	0
175	An unexpected grain size effect in diffusion induced grain boundary migration. Scripta Metallurgica, 1984, 18, 1341-1343.	1.2	11
176	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.	1.7	6
177	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.	0.6	12
178	Further comments on the appropriateness of stacking fault energy - to - mechanical property correlations. Scripta Metallurgica, 1982, 16, 1181-1182.	1.2	12
179	CSL/DSC Lattice model for general crystalcrystal boundaries and their line defects. Acta Metallurgica, 1982, 30, 1453-1470.	2.1	316
180	Step heights associated with grain boundary dislocations in cubic crystals. Acta Metallurgica, 1982, 30, 419-427.	2.1	50

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181	Calculations of sink strength and bias for point-defect absorption by dislocations in arrays. Radiation Effects, 1981, 54, 169-176.	0.4	14
182	Properties and effects of pure steps or facets on grain boundaries: Application to diffusion induced grain boundary migration. Scripta Metallurgica, 1981, 15, 1221-1225.	1.2	21
183	On the mechanism of diffusion-induced boundary migration. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1981, 44, 333-340.	0.6	84
184	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.	0.6	162
185	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.	0.6	66
186	Remarks on "the energy-misorientation relationship of grain boundaries― Scripta Metallurgica, 1980, 14, 1157-1160.	1.2	6