

Alexander H King

List of Publications by Year in descending order

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186
papers

5,675
citations

66343

42
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71
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docs citations

188
times ranked

4703
citing authors

#	ARTICLE	IF	CITATIONS
1	CSL/DSC Lattice model for general crystal-crystal boundaries and their line defects. <i>Acta Metallurgica</i> , 1982, 30, 1453-1470.	2.1	316
2	Novel One-Phase Synthesis of Thiol-Functionalized Gold, Palladium, and Iridium Nanoparticles Using Superhydride. <i>Langmuir</i> , 1999, 15, 3486-3491.	3.5	284
3	Self-Assembled Monolayers of Alkanesulfonic and -phosphonic Acids on Amorphous Iron Oxide Nanoparticles. <i>Langmuir</i> , 1999, 15, 7111-7115.	3.5	251
4	On the size-dependent phase transformation in nanoparticulate zirconia. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 286, 169-178.	5.6	236
5	Grain rotation in thin films of gold. <i>Acta Materialia</i> , 1998, 46, 2623-2633.	7.9	202
6	Diffusion induced grain boundary migration. <i>International Materials Reviews</i> , 1987, 32, 173-189.	19.3	172
7	The effects on grain-boundary processes of the steps in the boundary plane associated with the cores of grain-boundary dislocations. <i>The Acta Crystallographica Section A, Crystal Physics, Diffraction, and General Crystallography</i> , 1980, 36, 335-343.	0.6	162
8	High performance aluminum-cerium alloys for high-temperature applications. <i>Materials Horizons</i> , 2017, 4, 1070-1078.	12.2	155
9	A study of the interactive effects of strain, strain rate and temperature in severe plastic deformation of copper. <i>Acta Materialia</i> , 2009, 57, 5491-5500.	7.9	147
10	Surface-Induced Ordering in Asymmetric Block Copolymers. <i>Macromolecules</i> , 1994, 27, 4000-4010.	4.8	119
11	The effect of triple-junction drag on grain growth. <i>Acta Materialia</i> , 2000, 48, 397-403.	7.9	109
12	Nanomaterial powders and deposits prepared by flame spray processing of liquid precursors. <i>Scripta Materialia</i> , 1997, 8, 61-74.	0.5	107
13	Large strain deformation and ultra-fine grained materials by machining. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 410-411, 358-363.	5.6	106
14	Severe plastic deformation (SPD) of titanium at near-ambient temperature. <i>Acta Materialia</i> , 2006, 54, 3691-3700.	7.9	102
15	Deformation of hierarchically twinned martensite. <i>Acta Materialia</i> , 2010, 58, 5242-5261.	7.9	99
16	Microstructure and stability of nanocrystalline aluminum 6061 created by large strain machining. <i>Acta Materialia</i> , 2005, 53, 4781-4793.	7.9	98
17	Low-cost manufacturing process for nanostructured metals and alloys. <i>Journal of Materials Research</i> , 2002, 17, 2484-2488.	2.6	91
18	Nanomaterial Deposits Formed by DC Plasma Spraying of Liquid Feedstocks. <i>Journal of the American Ceramic Society</i> , 1998, 81, 121-128.	3.8	88

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19	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
20	Preparation of nanophase materials by thermal spray processing of liquid precursors. Scripta Materialia, 1997, 9, 137-140.	0.5	79
21	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
22	Grain boundary diffusion and growth of titanium silicide layers on silicon. Journal of Electronic Materials, 1990, 19, 1177-1183.	2.2	75
23	The Geometric and Thermodynamic Properties of Grain Boundary Junctions. Journal of Materials Science, 1999, 7, 251-271.	1.2	75
24	Fabrication and characterization of solid-state nanopores using a field emission scanning electron microscope. Applied Physics Letters, 2006, 88, 103109.	3.3	73
25	Severe plastic deformation (SPD) and nanostructured materials by machining. Journal of Materials Science, 2007, 42, 1529-1541.	3.7	71
26	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
27	Resistivity, thermopower and the correlation to infrared active vibrations of Mn _{1.56} Co _{0.96} Ni _{0.48} O ₄ spinel films sputtered in an oxygen partial pressure series. Journal of Applied Physics, 1999, 86, 514-523.	2.5	65
28	Transmission electron microscopy study of rapid solidification of plasma sprayed zirconia " part I. First splat solidification. Thin Solid Films, 2001, 397, 30-39.	1.8	63
29	The interactions of self-interstitials with twin boundaries. Philosophical Magazine, 2013, 93, 1268-1278.	1.6	58
30	The importance of elemental sustainability and critical element recovery. Green Chemistry, 2015, 17, 1949-1950.	9.0	55
31	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
32	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
33	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
34	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
35	Step heights associated with grain boundary dislocations in cubic crystals. Acta Metallurgica, 1982, 30, 419-427.	2.1	50
36	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

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37	Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. <i>Acta Materialia</i> , 2015, 96, 378-389.	7.9	50
38	Effect of stacking fault energy on mechanism of plastic deformation in nanotwinned FCC metals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015, 23, 055003.	2.0	49
39	When twins collide: Twin junctions in nanocrystalline nickel. <i>Acta Materialia</i> , 2016, 113, 301-310.	7.9	47
40	Effects of solutes on dislocation nucleation from grain boundaries. <i>International Journal of Plasticity</i> , 2017, 90, 146-155.	8.8	47
41	Misorientation effects upon diffusion induced grain boundary migration in the copper-zinc system. <i>Acta Metallurgica</i> , 1988, 36, 2827-2839.	2.1	45
42	Thermal stability and strength of deformation microstructures in pure copper. <i>Acta Materialia</i> , 2012, 60, 4107-4116.	7.9	43
43	On the availability of dislocation reactions at grain boundaries in cubic ordered alloys. <i>Scripta Metallurgica</i> , 1987, 21, 1115-1119.	1.2	42
44	Large-angle grain-boundary structures in hexagonal close-packed metals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1988, 57, 431-455.	0.6	42
45	Interactions between lattice partial dislocations and grain boundaries. <i>Materials Science and Engineering</i> , 1984, 66, 227-237.	0.1	41
46	The misorientation dependence of diffusion induced grain boundary migration. <i>Scripta Metallurgica</i> , 1986, 20, 1401-1404.	1.2	41
47	Segregation of Bismuth to Triple Junctions in Copper. <i>Microscopy and Microanalysis</i> , 1997, 3, 417-422.	0.4	41
48	Infrared optical properties of Mn _{1.56} Co _{0.96} Ni _{0.48} O ₄ spinel films sputter deposited in an oxygen partial pressure series. <i>Journal of Applied Physics</i> , 1999, 86, 2590-2601.	2.5	39
49	The early stages of plastic yielding in polycrystalline gold thin films. <i>Acta Materialia</i> , 2001, 49, 237-247.	7.9	38
50	Triple lines in materials science and engineering. <i>Scripta Materialia</i> , 2010, 62, 889-893.	5.2	38
51	Direct observation of diffusional creep via TEM in polycrystalline thin films of gold. <i>Acta Materialia</i> , 1998, 46, 6195-6203.	7.9	36
52	Thermally stable nanostructured materials from severe plastic deformation of precipitation-treatable Ni-based alloys. <i>Scripta Materialia</i> , 2008, 58, 675-678.	5.2	35
53	Severe Plastic Deformation of Difficult-to-Deform Materials at Near-Ambient Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 1899-1905.	2.2	32
54	Strain fields and energies of grain boundary triple junctions. <i>Acta Materialia</i> , 2008, 56, 5728-5736.	7.9	31

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55	The further geometry of grain boundaries in hexagonal close-packed metals. <i>Acta Crystallographica Section B: Structural Science</i> , 1987, 43, 416-422.	1.8	27
56	Twin-corner disclinations in YBa ₂ Cu ₃ O _{7-δ} . <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 67, 1037-1044.	0.6	27
57	Addressing Criticality in Rare Earth Elements via Permanent Magnets Recycling. <i>Jom</i> , 2018, 70, 115-123.	1.9	27
58	Coincidence orientations of crystals in tetragonal systems, with applications to YBa ₂ Cu ₃ O _{7-δ} . <i>Acta Crystallographica Section B: Structural Science</i> , 1990, 46, 117-125.	1.8	26
59	Bicrystal studies of diffusion-induced grain boundary migration in Cu/Zn. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990, 21, 2363-2367.	1.4	24
60	Thermal effects on domain orientation of tetragonal piezoelectrics studied by in situ x-ray diffraction. <i>Applied Physics Letters</i> , 2006, 88, 242901.	3.3	23
61	Effects of Ag and Zr solutes on dislocation emission from $\{11(332)[110]$ symmetric tilt grain boundaries in Cu: Bigger is not always better. <i>International Journal of Plasticity</i> , 2018, 109, 79-87.	8.8	23
62	Determination of the crystallographic directions and planes of features and of the misorientations of crystals with high accuracy and internal estimation of errors. <i>Journal of Electron Microscopy Technique</i> , 1987, 6, 55-61.	1.1	22
63	Properties and effects of pure steps or facets on grain boundaries: Application to diffusion induced grain boundary migration. <i>Scripta Metallurgica</i> , 1981, 15, 1221-1225.	1.2	21
64	How surface stresses lead to size-dependent mechanics of tensile deformation in nanowires. <i>Applied Physics Letters</i> , 2007, 90, 141907.	3.3	21
65	Vacancies, twins, and the thermal stability of ultrafine-grained copper. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	21
66	Our elemental footprint. <i>Nature Materials</i> , 2019, 18, 408-409.	27.5	20
67	Overcoming mechanical fragility in Sm-Co permanent magnet materials. <i>Acta Materialia</i> , 2020, 196, 528-538.	7.9	20
68	On the kinetics of dislocation absorption by grain boundaries. <i>Scripta Metallurgica</i> , 1985, 19, 1517-1520.	1.2	17
69	Observations of grain boundary structure in zinc. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991, 63, 1023-1033.	0.6	17
70	Title is missing!. <i>Journal of Materials Science</i> , 1997, 5, 287-303.	1.2	17
71	Behavior of grain boundary resistivity in metals predicted by a two-dimensional model. <i>Journal of Applied Physics</i> , 2000, 88, 2623-2633.	2.5	17
72	Effects of Schmid factor and slip nucleation on deformation mechanism in columnar-grained nanotwinned Ag and Cu. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	17

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73	Solute effects on interfacial dislocation emission in nanomaterials: Nucleation site competition and neutralization. <i>Scripta Materialia</i> , 2018, 154, 12-15.	5.2	17
74	Slip, twinning, and fracture at a grain boundary in the $L1_{2}$ ordered structure with $\theta = 9^\circ$ tilt boundary. <i>Journal of Materials Research</i> , 1988, 3, 848-855.	2.6	16
75	Dislocation structures in large-angle grain boundaries in hexagonal close-packed materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989, 113, 121-127.	5.6	16
76	Generalizing the coincidence site lattice model to non-cubic materials. <i>Journal of Physics and Chemistry of Solids</i> , 1994, 55, 1023-1033.	4.0	16
77	Intergranular fracture by slip/grain boundary interaction. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990, 21, 2431-2436.	1.4	15
78	The incidence of symmetric tilt grain boundaries in polycrystalline thin films of gold. <i>Scripta Materialia</i> , 1996, 34, 1723-1727.	5.2	15
79	Calculations of sink strength and bias for point-defect absorption by dislocations in arrays. <i>Radiation Effects</i> , 1981, 54, 169-176.	0.4	14
80	Mechanism of structural transformation in bismuth titanate. <i>Applied Physics Letters</i> , 2005, 86, 182902.	3.3	14
81	Anomalous triple junction surface pits in nanocrystalline zirconia thin films and their relationship to triple junction energy. <i>Acta Materialia</i> , 2009, 57, 3662-3670.	7.9	14
82	Mechanisms of Skyrmion and Skyrmion Crystal Formation from the Conical Phase. <i>Nano Letters</i> , 2020, 20, 4731-4738.	9.1	14
83	Vacancy deposition during diffusion-induced grain boundary migration. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1986, 54, L3-L7.	0.6	13
84	Non-destructive evaluation of delamination in ceramic thin films on metal substrates by scanning electron microscopy. <i>Thin Solid Films</i> , 2001, 385, 22-28.	1.8	13
85	Effects of grain boundary disorder on dislocation emission. <i>Materials Letters</i> , 2019, 237, 303-305.	2.6	13
86	Further comments on the appropriateness of stacking fault energy - to - mechanical property correlations. <i>Scripta Metallurgica</i> , 1982, 16, 1181-1182.	1.2	12
87	Some problems with the grain-boundary-dislocation climb mechanism for diffusion-induced grain boundary migration, and possible solutions. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1983, 48, L39-L44.	0.6	12
88	On the nucleation of diffusion induced recrystallization. <i>Scripta Metallurgica</i> , 1987, 21, 649-652.	1.2	12
89	Triple junction energy and prospects for measuring it. <i>Materials Science and Technology</i> , 2007, 23, 505-508.	1.6	12
90	Thermal effects on mechanical grinding-induced surface texture in tetragonal piezoelectrics. <i>Journal of Materials Research</i> , 2007, 22, 2845-2850.	2.6	12

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91	An unexpected grain size effect in diffusion induced grain boundary migration. Scripta Metallurgica, 1984, 18, 1341-1343.	1.2	11
92	Bicrystal growth and characterization of copper twist grain boundaries. Journal of Crystal Growth, 2001, 222, 392-398.	1.5	11
93	Plasticity enhancement through disordering at grain boundaries. Scripta Metallurgica Et Materialia, 1991, 25, 1249-1252.	1.0	10
94	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
95	Transformation of ancient Chinese and model two-phase bronze surfaces to smooth adherent patinas. Phase Transitions, 2008, 81, 217-232.	1.3	10
96	The Rare Earths as Critical Materials. Fundamental Theories of Physics, 2016, 50, 19-46.	0.3	10
97	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
98	The role of segregation in diffusion-induced grain boundary migration. Acta Materialia, 2001, 49, 1-11.	7.9	9
99	Grain Growth Suppression and Enhancement by Interdiffusion in Thin Films. Materials Research Society Symposia Proceedings, 1994, 343, 33.	0.1	8
100	Some further microstructural characteristics of face-centered cubic polycrystalline metal thin films. Journal of Electronic Materials, 1997, 26, 987-995.	2.2	8
101	Growth of columnar grains during zirconia-yttria splat solidification. Journal of Materials Science Letters, 1999, 18, 1517-1519.	0.5	8
102	Control of porosity in fluoride thin films prepared by vapor deposition. Journal of Materials Research, 2007, 22, 2012-2016.	2.6	8
103	The interaction between dislocations and intergranular cracks. Journal of Materials Research, 1991, 6, 314-323.	2.6	7
104	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
105	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
106	Diffusion induced grain boundary migration in the zinc-cadmium system. Acta Materialia, 1996, 44, 2983-2998.	7.9	7
107	Analysis of the grain boundary misorientation distribution in polycrystalline gold thin films using minimal data. Scripta Materialia, 2000, 42, 301-306.	5.2	7
108	Remarks on the energy-misorientation relationship of grain boundaries. Scripta Metallurgica, 1980, 14, 1157-1160.	1.2	6

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109	Evidence of the formation of twins by deformation and "growth-accidents" in evaporated thin films of gold. <i>Physica Status Solidi A</i> , 1983, 76, 629-636.	1.7	6
110	A geometrical rationalization of the special properties of the 14Å° [001] grain boundary in YBa ₂ Cu ₃ O ₇ . <i>Journal of Applied Physics</i> , 1993, 74, 4627-4630.	2.5	6
111	Complications of diffusional creep at very small grain sizes. <i>Scripta Metallurgica Et Materialia</i> , 1994, 31, 1493-1494.	1.0	6
112	Title is missing!. <i>Journal of Materials Science</i> , 1999, 7, 33-44.	1.2	6
113	On the design of controlled tricrystal specimens for the systematic investigation of static grain boundary triple junction properties. <i>Journal of Materials Science</i> , 2005, 40, 2795-2802.	3.7	6
114	Grain growth and texture development in lithium fluoride thin films. <i>Journal of Materials Research</i> , 2008, 23, 452-462.	2.6	6
115	Effects of thermomechanical treatment on the progress of diffusion-induced grain boundary migration. <i>Materials Science and Engineering</i> , 1986, 83, 109-114.	0.1	5
116	The geometry and properties of ledges in interfaces. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1991, 22, 1177-1183.	1.4	5
117	TEM observations of the mechanism of delamination of chromium films from silicon substrates. <i>Journal of Materials Research</i> , 1992, 7, 359-366.	2.6	5
118	Localized Texture Formation and its Detection in Polycrystalline Thin Films of Gold. <i>Materials Research Society Symposia Proceedings</i> , 1993, 317, 425.	0.1	5
119	Grain Rotation and Microstructure Development in Thin Films of Gold. <i>Materials Science Forum</i> , 1996, 204-206, 355-360.	0.3	5
120	The properties of DSC lattices at coincidence-site lattice related triple junctions. <i>Scripta Materialia</i> , 2000, 43, 175-179.	5.2	5
121	Texture and Symmetry Relationships in Piezoelectric Materials. <i>Materials Science Forum</i> , 2005, 495-497, 13-22.	0.3	5
122	Size-driven domain reorientation in hydrothermally derived lead titanate nanoparticles. <i>Journal of Materials Research</i> , 2005, 20, 558-562.	2.6	5
123	Energy-minimizing structures for interfacial dislocation arrays: Non-planar configuration in small-angle grain boundaries. <i>Materials Science and Engineering</i> , 1986, 81, 51-59.	0.1	4
124	Hillock Formation in Tensile Loaded Films. <i>Materials Research Society Symposia Proceedings</i> , 1995, 391, 73.	0.1	4
125	Phase Transformation as a Function of Particle Size in Nanocrystalline Zirconia. <i>Materials Research Society Symposia Proceedings</i> , 1997, 481, 613.	0.1	4
126	Tem Study of Yielding in Polycrystalline Gold Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997, 505, 383.	0.1	4

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127	Effects of residual (or internal) stress on ferroelectric domain wall motion in tetragonal lead titanate. <i>Journal of Materials Research</i> , 2009, 24, 1803-1809.	2.6	4
128	Effects of solutes on the thermal stability of nanotwinned materials. <i>Philosophical Magazine</i> , 2014, 94, 2875-2885.	1.6	4
129	When agendas align: Critical materials and green electronics. , 2016, , .		4
130	Grain boundary viscosity at high temperature and the grain boundary phase transformation. <i>Scripta Metallurgica</i> , 1985, 19, 291-294.	1.2	3
131	Structure of a small angle tilt grain boundary in zinc. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988, 19, 2359-2363.	1.4	3
132	Adsorption, surface energy and the driving force for the migration of grain boundaries in substitutional alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990, 123, 39-43.	5.6	3
133	Grain Rotation in Thin Films of Gold. <i>Materials Research Society Symposia Proceedings</i> , 1995, 403, 15.	0.1	3
134	Grain Boundaries of Finite Length. <i>Materials Science Forum</i> , 1995, 189-190, 143-148.	0.3	3
135	Grain Boundaries of Finite Extent. <i>Materials Science Forum</i> , 1996, 207-209, 125-128.	0.3	3
136	Triple Junction Structure and Properties. <i>Materials Science Forum</i> , 1998, 294-296, 91-94.	0.3	3
137	On the correlation of grain boundary misorientation distribution with critical current in bulk processed $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7-\delta}$. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 78, 1037-1049.	0.6	3
138	Selective Dissolution in Copper-Tin Alloys: Formation of Corrosion-Resistant Patina on Ancient Chinese Bronze Mirrors. <i>Materials Research Society Symposia Proceedings</i> , 1996, 432, 283.	0.1	2
139	Read-Shockley Boundaries in Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997, 472, 113.	0.1	2
140	Dislocation-indentation interaction in nanoindentation. <i>Journal of Applied Physics</i> , 2005, 98, 023502.	2.5	2
141	Nanostructured Materials by Machining. , 2005, , 981.		2
142	Faster: Accelerating the Transition from Materials Discovery to Commercial Deployment. <i>Jom</i> , 2019, 71, 10-13.	1.9	2
143	Applications of computer simulation techniques to problems encountered in conventional plasma spraying. <i>Materials Science and Engineering</i> , 1985, 70, 211-216.	0.1	1
144	Grain Growth in Titanium Silicide Films During the Formation Reaction. <i>Materials Research Society Symposia Proceedings</i> , 1990, 202, 137.	0.1	1

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145	Crack tip-dislocation loop interactions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 148, 155-162.	5.6	1
146	Principles of grain boundary geometry in noncubic materials, with applications to YBa ₂ Cu ₃ O ₇ -. Journal of Materials Science, 1994, 1, 347.	1.2	1
147	Dynamic Properties of Interfaces. Materials Science Forum, 1995, 189-190, 19-30.	0.3	1
148	Grain Rotation and Grain Boundary Selection in Thin Films. Materials Research Society Symposia Proceedings, 1996, 458, 301.	0.1	1
149	Analysis of Symmetric Triple Junctions. Materials Science Forum, 1996, 207-209, 257-260.	0.3	1
150	Interfaces in Rapidly Solidified Zirconia-Yttria. Materials Science Forum, 1999, 294-296, 779-782.	0.3	1
151	Read-Shockley Grain Boundaries and the Herring Equation. Materials Research Society Symposia Proceedings, 2008, 1090, 51801.	0.1	1
152	Mitigating criticality, part III: Improving the stewardship of existing supplies. , 2021, , 205-234.		1
153	Mitigating criticality, part II: Source diversification. , 2021, , 161-203.		1
154	Room-temperature grain boundary diffusion data measured from historical artifacts. International Journal of Materials Research, 2005, 96, 1187-1192.	0.8	1
155	Effects of Triple Line Tension on the Surface Topography of Polycrystals. Materials Research Society Symposia Proceedings, 2002, 731, 671.	0.1	1
156	Critical materials for permanent magnets. , 2022, , 343-370.		1
157	Partial dislocation-grain boundary interactions in b.c.c. crystals. Materials Science and Engineering, 1984, 66, L25-L26.	0.1	0
158	On the selectivity of certain experiments on diffusion induced grain boundary migration. Scripta Metallurgica, 1987, 21, 541-542.	1.2	0
159	GRAIN BOUNDARY STRUCTURE IN HCP METAL. Journal De Physique Colloque, 1988, 49, C5-195-C5-200.	0.2	0
160	The Interaction of Twin Boundaries with Grain Boundaries in YBa ₂ Cu ₃ O ₇ - δ . Materials Research Society Symposia Proceedings, 1994, 357, 133.	0.1	0
161	TEM Study of Growth Defects in CVD Diamond Films. Materials Research Society Symposia Proceedings, 1994, 363, 169.	0.1	0
162	Time and Temperature Properties of Triblock Copolymer Ordering. Materials Science Forum, 1995, 189-190, 161-166.	0.3	0

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163	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
164	Diffusion Induced Grain Boundary Migration in Hexagonal Materials. Materials Science Forum, 1996, 207-209, 497-500.	0.3	0
165	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
166	Analyses of the Grain Boundary Misorientation and Oxygen Content of Bulk Processed YBa ₂ Cu ₃ O _{7-δ} . Materials Research Society Symposia Proceedings, 1997, 472, 99.	0.1	0
167	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
168	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
169	Triple Junction Engineering: the Distribution of Triple Junctions in Polycrystalline Gold Thin Films. Materials Research Society Symposia Proceedings, 1999, 586, 117.	0.1	0
170	Grain Boundary Curvature in Polycrystalline Metallic Thin Films. Materials Research Society Symposia Proceedings, 2000, 615, 781.	0.1	0
171	Dislocation Arrays in the Interfaces between Substrates and Epitaxial Islands. Materials Research Society Symposia Proceedings, 2001, 672, 1.	0.1	0
172	Exploring The Consequences of Negative Triple Junction Energy. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	0
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