

Alan J Ardell

List of Publications by Year in descending order

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citations

87888

38
h-index

74163

75
g-index

128
all docs

128
docs citations

128
times ranked

2376
citing authors

#	ARTICLE	IF	CITATIONS
1	The $(\hat{\Gamma}^3 + \hat{\Gamma}^3\hat{\alpha}^2)$ phase boundary in the Ni-Al phase diagram from 600 to 1200 °C. International Journal of Materials Research, 2022, 94, 972-975.	0.3	1
2	Coarsening of skeletal microstructures: Re-examination of data on Pseudo-Skeletal $\hat{\Gamma}^3\hat{\alpha}^2$ precipitate coarsening in binary Ni-Al Alloys. Scripta Materialia, 2022, 215, 114693.	5.2	2
3	Splitting of $\hat{\Gamma}^3\hat{\alpha}^2$ Precipitates in the Context of Phase Equilibrium. Journal of Phase Equilibria and Diffusion, 2022, 43, 660-676.	1.4	1
4	Ripening of $L1_{23}$ Ni ₃ Ti precipitates in the framework of the trans-interface diffusion-controlled theory of particle coarsening. International Journal of Materials Research, 2022, 97, 295-303.	0.3	1
5	Coarsening of solid $\hat{\Gamma}^2$ -Sn particles in liquid Pb-Sn alloys: Reinterpretation of experimental data in the framework of trans-interface-diffusion-controlled coarsening. Physical Review Materials, 2021, 5, .	2.4	2
6	Temperature Dependence of the $\hat{\Gamma}^3/\hat{\Gamma}^3\hat{\alpha}^2$ Interfacial Energy in Binary Ni-Al Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 5182-5199.	2.2	10
7	Trans-interface-diffusion-controlled coarsening of $\hat{\Gamma}^3\hat{\alpha}^2$ particles in Ni-Al alloys: commentaries and analyses of recent data. Journal of Materials Science, 2020, 55, 14588-14610.	3.7	14
8	Disorder strengthening of ordered $L1_2$ alloys by face centered cubic (A1) precipitates. Intermetallics, 2017, 88, 81-90.	3.9	13
9	The roles of auxeticity and volume fraction on $\hat{\Gamma}^3\hat{\alpha}^2$ precipitate microstructures in nickel-base alloys. Philosophical Magazine Letters, 2017, 97, 35-42.	1.2	2
10	Non-integer temporal exponents in trans-interface diffusion-controlled coarsening. Journal of Materials Science, 2016, 51, 6133-6148.	3.7	12
11	Radiation-induced solute segregation in metallic alloys. Current Opinion in Solid State and Materials Science, 2016, 20, 115-139.	11.5	95
12	The effects of elastic interactions on precipitate microstructural evolution in elastically inhomogeneous nickel-base alloys. Philosophical Magazine, 2014, 94, 2101-2130.	1.6	42
13	Trans-interface-diffusion-controlled coarsening of $\hat{\Gamma}^3\hat{\alpha}^2$ precipitates in ternary Ni-Al-Cr alloys. Acta Materialia, 2013, 61, 7828-7840.	7.9	45
14	Trans-interface-diffusion-controlled coarsening in ternary alloys. Acta Materialia, 2013, 61, 7749-7754.	7.9	27
15	Harper-Dorn creep - The dislocation network theory revisited. Scripta Materialia, 2013, 69, 541-544.	5.2	8
16	Gradient energy, interfacial energy and interface width. Scripta Materialia, 2012, 66, 423-426.	5.2	53
17	Coarsening of Ni-Ge solid-solution precipitates in ϵ -Ni ₃ Ge alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 66-75.	5.6	10
18	The Nickel-Rich Region of the Ni-Ge Phase Diagram. Journal of Phase Equilibria and Diffusion, 2012, 33, 4-8.	1.4	8

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19	Al-L12 interfacial free energies from data on coarsening in five binary Ni alloys, informed by thermodynamic phase diagram assessments. <i>Journal of Materials Science</i> , 2011, 46, 4832-4849.	3.7	55
20	Quantitative predictions of the trans-interface diffusion-controlled theory of particle coarsening. <i>Acta Materialia</i> , 2010, 58, 4325-4331.	7.9	44
21	Chemical diffusion in hypostoichiometric Ni ₃ Al from data on coarsening of Ni-Al solid solution precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 516, 259-262.	5.6	8
22	Coarsening of $\hat{\Gamma}^3$ (Ni-Al solid solution) precipitates in a $\hat{\Gamma}^3$ (Ni ₃ Al) matrix. <i>Acta Materialia</i> , 2007, 55, 4419-4427.	7.9	46
23	The elastic constants of FCC Ni-Ga and Ni-Ge alloys up to 1100K. <i>Scripta Materialia</i> , 2006, 54, 1327-1330.	5.2	5
24	Ripening of L12Ni ₃ Ti precipitates in the framework of the trans-interface diffusion-controlled theory of particle coarsening. <i>International Journal of Materials Research</i> , 2006, 97, 295-302.	0.8	15
25	Trans-interface diffusion-controlled coarsening. <i>Nature Materials</i> , 2005, 4, 309-316.	27.5	230
26	Coarsening of Ni ₃ Ge precipitates in Ni-Ge alloys aged under uniaxial compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 397, 264-270.	5.6	7
27	Coarsening behavior of Ni ₃ Ga precipitates in Ni-Ga alloys: Dependence of microstructure and kinetics on volume fraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 3063-3069.	2.2	18
28	Three-dimensional phase-field simulations of coarsening kinetics of $\hat{\Gamma}^3$ particles in binary Ni-Al alloys. <i>Acta Materialia</i> , 2004, 52, 2837-2845.	7.9	196
29	Retardation of the Coarsening Kinetics in Ni-Al and Ni-Ge Alloys Under Uniaxial Elastic Strain. <i>Microscopy and Microanalysis</i> , 2004, 10, 696-697.	0.4	1
30	Elastic constants of face-centered cubic and L12 Ni-Si alloys: Composition and temperature dependence. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 1863-1868.	2.2	17
31	Coarsening of Ni ₃ Ge in binary Ni-Ge alloys: microstructures and volume fraction dependence of kinetics. <i>Acta Materialia</i> , 2003, 51, 4073-4082.	7.9	36
32	Coarsening of $\hat{\Gamma}^3$ in Ni-Al alloys aged under uniaxial compression: II. Diffusion under stress and retardation of coarsening kinetics. <i>Acta Materialia</i> , 2003, 51, 5013-5019.	7.9	57
33	Coarsening of $\hat{\Gamma}^3$ in Ni-Al alloys aged under uniaxial compression: I. Early-stage kinetics. <i>Acta Materialia</i> , 2003, 51, 5001-5012.	7.9	30
34	Coarsening of $\hat{\Gamma}^3$ in Ni-Al alloys aged under uniaxial compression: III. Characterization of the morphology. <i>Acta Materialia</i> , 2003, 51, 5021-5036.	7.9	38
35	Coarsening of $\hat{\Gamma}^3$ (Ni-Al Solid Solution) Precipitates in a $\hat{\Gamma}^3$ (Ni ₃ Al) Matrix: Preliminary Results. <i>Materials Science Forum</i> , 2003, 442, 1-6.	0.3	2
36	The ($\hat{\Gamma}^3 + \hat{\Gamma}^3$)/ $\hat{\Gamma}^3$ phase boundary in the Ni-Al phase diagram from 600 to 1200°C. <i>International Journal of Materials Research</i> , 2003, 94, 972-975.	0.8	24

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37	Precipitation of Al ₃ Sc in binary Al-Sc alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 318, 144-154.	5.6	188
38	Fracture toughness of ceramics and semi-brittle alloys using a miniaturized disk-bend test. <i>Materials Research Innovations</i> , 2000, 3, 250-262.	2.3	11
39	The Ni-Ni ₃ Al phase diagram: thermodynamic modelling and the requirements of coherent equilibrium. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2000, 8, 277-286.	2.0	18
40	Microstructural stability at elevated temperatures. <i>Journal of the European Ceramic Society</i> , 1999, 19, 2217-2231.	5.7	33
41	The incoherent γ/β solvus in Ni-Al alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 1998, 19, 334-339.	0.3	9
42	Coarsening of Ni ₃ Si precipitates at volume fractions from 0.03 to 0.30. <i>Acta Materialia</i> , 1998, 46, 5907-5916.	7.9	38
43	Fracture toughness of Ti-46.5Al-2.1Cr-3.0Nb-0.2W from finite element analysis of miniaturized disk-bend test results. <i>Intermetallics</i> , 1998, 6, 471-477.	3.9	5
44	Latent hardening behavior of monocrystalline Al-Mg solid solution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997, 28, 2353-2360.	2.2	5
45	Coarsening of Ni ₃ Si precipitates in binary Ni-Si alloys at intermediate to large volume fractions. <i>Acta Materialia</i> , 1997, 45, 1393-1400.	7.9	27
46	HARPER-DORN CREEP PREDICTIONS OF THE DISLOCATION NETWORK THEORY OF HIGH TEMPERATURE DEFORMATION. <i>Acta Materialia</i> , 1997, 45, 2971-2981.	7.9	24
47	Temporal behavior of the number density of particles during Ostwald ripening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 238, 108-120.	5.6	42
48	Preferential cleavage planes in biaxially stressed, vickers-indented NiAl monocrystals. <i>Scripta Materialia</i> , 1996, 34, 1107-1113.	5.2	0
49	Interfacial free energies and solute diffusivities from data on Ostwald ripening. <i>Journal of Materials Science</i> , 1995, 3, 119.	1.2	74
50	The effects of heat treatment and purity on the mechanical properties of monocrystalline NiAl. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 192-193, 333-339.	5.6	4
51	Two-Dimensional Ostwald Ripening in Symmetric Diblock Copolymer Films. <i>Physical Review Letters</i> , 1995, 74, 4960-4960.	7.8	15
52	Coherent equilibrium in alloys containing spherical precipitates. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 1825-1835.	1.8	19
53	Measurement of the fracture toughness of Ni ₃ Ge using small disk-shaped specimens. <i>Intermetallics</i> , 1995, 3, 397-404.	3.9	4
54	Microstructure and coarsening kinetics of Ni ₃ Ge precipitates in aged NiGe alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 183, 169-179.	5.6	19

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55	Role of volume fraction in the coarsening of Ni ₃ Si precipitates in binary Ni–Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 185, 153-163.	5.6	36
56	Coarsening kinetics and microstructure of Ni ₃ Ga precipitates in aged Ni–Ga alloys. <i>Journal of Alloys and Compounds</i> , 1994, 205, 215-223.	5.5	13
57	The Effect of Volume Fraction on $\hat{\Gamma}$ (Ni ₃ Si) Precipitate Coarsening In Ni-Si Alloys. <i>NATO ASI Series Series B: Physics</i> , 1994, , 215-218.	0.2	0
58	Measurement of the Fracture Toughness of Ceramic Materials Using a Miniaturized Disk-Bend Test. <i>Journal of the American Ceramic Society</i> , 1993, 76, 1340-1344.	3.8	17
59	Mechanical properties of individual grain boundaries in Ni ₃ Al using a miniaturized disk-bend test. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 2601-2610.	1.8	19
60	Morphological evolution of coherent misfitting precipitates in anisotropic elastic media. <i>Physical Review Letters</i> , 1993, 70, 2305-2308.	7.8	92
61	Optimization of Test Parameters for Quantitative Stress Measurements Using the Miniaturized Disk-Bend Test. <i>Journal of Testing and Evaluation</i> , 1993, 21, 263-271.	0.7	26
62	Mechanical Behavior of Monocrystalline NiAl Using A Miniaturized Disk-Bend Test. <i>Materials Research Society Symposia Proceedings</i> , 1992, 288, 641.	0.1	0
63	Elastic interactions and their effect on $\hat{\Gamma}$ precipitate shapes in aged dilute Ni-Al alloys. <i>Scripta Metallurgica Et Materialia</i> , 1992, 26, 347-352.	1.0	48
64	Anomalous coarsening behavior of small volume fractions of Ni ₃ Al precipitates in binary Ni–Al alloys. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 2661-2667.	1.8	57
65	Observation of rod-shaped T1 precipitates in an Al-Li-Cu alloy. <i>Scripta Metallurgica Et Materialia</i> , 1992, 26, 1759-1762.	1.0	1
66	Anomalous coarsening of small volume fractions of Ni ₃ Al precipitates: An explanation of inhomogeneous dispersions observed at small undercoolings. <i>Scripta Metallurgica Et Materialia</i> , 1992, 27, 943-946.	1.0	4
67	Solute-enriched surface layers and X-ray microanalysis of thin foils of a commercial aluminium alloy. <i>Journal of Microscopy</i> , 1992, 165, 301-309.	1.8	3
68	Mechanical behaviour of both sides of an amorphous Fe ₇₈ B ₁₄ Si ₈ alloy ribbon as determined from miniaturized disk-bend tests. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 3167-3177.	1.8	12
69	Mechanical behavior of ion-irradiated ordered intermetallic compounds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992, 152, 212-226.	5.6	8
70	Mechanical behavior of ion-irradiated ordered intermetallic compounds. , 1992, , 212-226.		1
71	Microchemical analysis of precipitate free zones in 7075-A1 in the T6, T7 and RRA tempers. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 591-598.	1.8	64
72	Fracture Strengths of Individual Grain Boundaries in Ni ₃ Al Using a Miniaturized Disk Bend Test. <i>Materials Research Society Symposia Proceedings</i> , 1991, 238, 375.	0.1	1

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73	Measurement of the fracture toughness of CVD-grown ZnS using a miniaturized disk-bend test. <i>Journal of Materials Research</i> , 1991, 6, 1950-1957.	2.6	31
74	Solid-State Phase Equilibria in the ZnS-Ga ₂ S ₃ System. <i>Journal of the American Ceramic Society</i> , 1990, 73, 1544-1547.	3.8	13
75	Solid solution strengthening of ZnS. , 1990, , .		6
76	Late-stage two-dimensional coarsening of circular clusters. <i>Physical Review B</i> , 1990, 41, 2554-2556.	3.2	71
77	Observations on the effect of volume fraction on the coarsening of $\hat{\Gamma}$ precipitates in binary Ni ₃ -Al alloys. <i>Scripta Metallurgica Et Materialia</i> , 1990, 24, 343-346.	1.0	53
78	Fractographic fingerprinting of proton-irradiation-induced disordering and amorphization of intermetallic compounds. <i>Journal of Materials Research</i> , 1989, 4, 565-578.	2.6	12
79	Enhanced ordering and stability of Pd ₈ W in proton irradiated Pd-W alloys. <i>Acta Metallurgica</i> , 1989, 37, 1891-1902.	2.1	4
80	Scaling characteristics of dislocation link length distributions generated during the creep of crystals. <i>Acta Metallurgica</i> , 1989, 37, 739-748.	2.1	38
81	Correlation between microstructure and calorimetric behavior of aluminum alloy 7075 and Al ₃ Zn ₂ Mg alloys in various tempers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989, 114, 197-203.	5.6	75
82	Addition rules and the contribution of $\hat{\Gamma}'$ precipitates to strengthening of aged Al ₃ Li ₂ Cu alloys. <i>Acta Metallurgica</i> , 1988, 36, 2995-3006.	2.1	112
83	Precipitation strengthening of binary Al ₃ Li alloys by $\hat{\Gamma}$ precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1988, 104, 149-156.	5.6	41
84	Solid-state phase equilibria in the ZnS-CdS system. <i>Materials Research Bulletin</i> , 1988, 23, 1667-1673.	5.2	23
85	The structure of amorphous Ni ₅₀ Ti ₅₀ alloys prepared by proton irradiation and mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 1988, 106, 81-84.	3.1	8
86	Enhanced ordering of Pd ₈ Mo and induced solute segregation in proton-irradiated Pd ₃ Mo alloys. <i>Journal of the Less Common Metals</i> , 1988, 143, 251-263.	0.8	6
87	On the stability of the ordered Pd ₈ V phase in a proton-irradiated Pd-15at.%V alloy. <i>Journal of the Less Common Metals</i> , 1988, 141, 45-53.	0.8	14
88	Antiphase boundary energies and the transition from shearing to looping in alloys strengthened by ordered precipitates. <i>Philosophical Magazine Letters</i> , 1988, 58, 189-197.	1.2	31
89	Precipitate microstructure of peak-aged 7075 Al. <i>Scripta Metallurgica</i> , 1988, 22, 1115-1119.	1.2	61
90	Structural comparison of amorphous Cu ₅₀ Zr ₅₀ alloys prepared by proton irradiation, melt spinning, and mechanical alloying. <i>Journal of Applied Physics</i> , 1988, 64, 4772-4774.	2.5	26

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91	The formation of Pd ₈ Mo in proton-irradiated Pd-Mo solid solutions. <i>Materials Letters</i> , 1987, 6, 67-70.	2.6	13
92	Dynamic recovery during compression testing of monocrystalline NaCl at elevated temperatures. <i>Materials Science and Engineering</i> , 1987, 92, 63-70.	0.1	5
93	Precipitation at grain boundaries in the commercial alloy Al 7075. <i>Acta Metallurgica</i> , 1986, 34, 2399-2409.	2.1	47
94	Effect of heat treatment on precipitation behaviour in a Cu-Ni-Si-P alloy. <i>Journal of Materials Science</i> , 1986, 21, 1357-1362.	3.7	41
95	A dislocation network theory of Harper-Dorn creep. Steady state creep of monocrystalline Al. <i>Acta Metallurgica</i> , 1986, 34, 2411-2423.	2.1	55
96	Dislocation link-length statistics and elevated temperature deformation of crystals. <i>Mechanics of Materials</i> , 1984, 3, 319-332.	3.2	41
97	Crystallization of amorphous Ni ₃₅ Zr ₆₅ and Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ under proton irradiation. <i>Journal of Non-Crystalline Solids</i> , 1984, 65, 73-86.	3.1	2
98	Irradiation damage in proton irradiated palladium-iron solid solutions. <i>Journal of Nuclear Materials</i> , 1983, 114, 66-74.	2.7	5
99	On the modeling of irradiation-induced homogeneous precipitation in proton-bombarded Ni-Si solid solutions. <i>Journal of Nuclear Materials</i> , 1981, 101, 314-325.	2.7	23
100	Order hardening: comparison between revised theory and experiment. <i>Metal Science</i> , 1980, 14, 221-224.	0.7	12
101	Microstructure and transient creep in an austenitic stainless steel. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1979, 39, 65-73.	0.6	29
102	A phenomenological theory of transient creep. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1979, 39, 75-90.	0.6	12
103	Antiphase domain growth in Cu ₃ Au: Quantitative comparison between theory and experiment. <i>Acta Metallurgica</i> , 1979, 27, 1261-1269.	2.1	12
104	The mechanism of overaging in Cu ₃ Au-1.5 at.% Co alloy single crystals. <i>Materials Science and Engineering</i> , 1978, 36, 139-143.	0.1	7
105	Void ordering in nitrogen-ion irradiated nickel-aluminum solid solutions. <i>Journal of Nuclear Materials</i> , 1978, 75, 177-185.	2.7	24
106	Long-range order in Cu ₃ Au and dilute Cu ₃ Au-Co alloys. <i>Journal of Applied Crystallography</i> , 1977, 10, 468-472.	4.5	2
107	Hardening mechanisms in underaged ordered and disordered Cu ₃ Au-Co alloy single crystals. <i>Acta Metallurgica</i> , 1977, 25, 1231-1240.	2.1	6
108	The observation of multiple-layer loops in nickel base alloys under ion bombardment. <i>Physica Status Solidi A</i> , 1976, 34, 679-690.	1.7	8

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109	The effect of particle size distributions on the CRSS of aged Ni ₃ -Al alloys. Acta Metallurgica, 1976, 24, 827-833.	2.1	14
110	Precipitation hardening of Ni-12.19 at.% Al alloy single crystals. Acta Metallurgica, 1975, 23, 513-520.	2.1	48
111	The coarsening of $\hat{\Gamma}^{3'}$ precipitates at large volume fractions. Acta Metallurgica, 1974, 22, 577-588.	2.1	176
112	Particle range and energy deposition in materials containing voids. Radiation Effects, 1974, 22, 217-223.	0.4	9
113	On diffraction contrast effects at extrinsic grain boundary dislocations. Physica Status Solidi A, 1973, 18, 407-417.	1.7	13
114	On the coarsening of grain boundary precipitates. Acta Metallurgica, 1972, 20, 601-609.	2.1	260
115	The effect of volume fraction on particle coarsening: theoretical considerations. Acta Metallurgica, 1972, 20, 61-71.	2.1	771
116	Observations on the precipitation-hardening of a Cu ₃ Au _{1-x} -Co alloy. Materials Science and Engineering, 1972, 9, 163-174.	0.1	6
117	The coarsening behavior of the $\hat{\Gamma}^{\epsilon 2}$ precipitate in nickel-silicon alloys. Acta Metallurgica, 1971, 19, 321-330.	2.1	159
118	The coherent solubilities of $\hat{\Gamma}^{\epsilon 2}$ in Ni-Al, Ni-Si AND Ni-Ti alloys. Acta Metallurgica, 1969, 17, 595-602.	2.1	92
119	An application of the theory of particle coarsening: The $\hat{\Gamma}^{3'}$ precipitate in Ni ₃ -Al alloys. Acta Metallurgica, 1968, 16, 511-516.	2.1	192
120	Reply to "comments on "further applications of the theory of particle coarsening". Scripta Metallurgica, 1968, 2, 173-176.	1.2	4
121	On the modulated structure of aged Ni-Al alloys. Acta Metallurgica, 1966, 14, 1295-1309.	2.1	615
122	The coarsening of $\hat{\Gamma}^{3'}$ in Ni-Al alloys. Journal of Physics and Chemistry of Solids, 1966, 27, 1793-1794.	4.0	311
123	Dislocation Mobility and the Steady-State Creep of Crystals with Special Reference to $\hat{\Gamma}^{\pm}$ Zirconium. Journal of Applied Physics, 1966, 37, 2910-2911.	2.5	5
124	Statistics of Jogs on Dislocations at Equilibrium. Journal of Applied Physics, 1965, 36, 1727-1732.	2.5	22
125	On the calculation of melting temperatures for low-temperature phases of polymorphic metals. Acta Metallurgica, 1963, 11, 591-594.	2.1	70