Michael Finnis

List of Publications by Year in Descending Order

169 papers	11,012 citations	52 h-index	103 g-index
175 ext. papers	11,787 ext. citations	5.3 avg, IF	6.19 L-index

#	Paper	IF	Citations
169	Grand canonical approach to modeling hydrogen trapping at vacancies in Fe. *Physical Review Materials*, **2020**, 4,	3.2	4
168	The diffusion of doxorubicin drug molecules in silica nanoslits is non-Gaussian, intermittent and anticorrelated. *Physical Chemistry Chemical Physics*, **2020**, 22, 27955-27965	3.6	24
167	Ab initio based method to study structural phase transitions in dynamically unstable crystals, with new insights on the to transformation in titanium. *Physical Review B*, **2019**, 100,	3.3	9
166	Fast anharmonic free energy method with an application to vacancies in ZrC. *Physical Review B*, **2019**, 100,	3.3	7
165	First-Principles Approach to Model Electrochemical Reactions: Understanding the Fundamental Mechanisms behind Mg Corrosion. *Physical Review Letters*, **2018**, 120, 246801	7.4	45
164	Migration mechanisms of a faceted grain boundary. *Physical Review Materials*, **2018**, 2,	3.2	12
163	Anomalous diffusion along metal/ceramic interfaces. *Nature Communications*, **2018**, 9, 5251	17.4	33
162	Spontaneous Frenkel pair formation in zirconium carbide. *Physical Review B*, **2018**, 98,	3.3	3
161	Structure and ionic diffusivity in an yttria-stabilised zirconia/strontium titanate multilayer. *Acta Materialia*, **2017**, 129, 388-397	8.4	2
160	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. *Journal of the American Ceramic Society*, **2017**, 100, 1777-1803	3.8	17
159	A model for time-dependent grain boundary diffusion of ions and electrons through a film or scale, with an application to alumina. *Acta Materialia*, **2017**, 132, 503-516	8.4	2
158	The challenges of hydrogen and metals. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	8
157	The Band Structure of Polycrystalline Al2O3 and Its Influence on Transport Phenomena. *Journal of the American Ceramic Society*, **2016**, 99, 733-747	3.8	35
156	Improved method of calculating ab initio high-temperature thermodynamic properties with application to ZrC. *Physical Review B*, **2015**, 91,	3.3	60
155	MEAMfit: A reference-free modified embedded atom method (RF-MEAM) energy and force-fitting code. *Computer Physics Communications*, **2015**, 196, 439-445	4.2	18
154	Structural and electronic properties of 7 grain boundaries in Al2O3. *Acta Materialia*, **2015**, 99, 16-28	8.4	14
153	Oxygen vacancy formation energies in Sr-doped complex perovskites: ab initio thermodynamic study. *Solid State Ionics*, **2014**, 254, 11-16	3.3	24

152	Plasmonic ELISA for the detection of gp120 at ultralow concentrations with the naked eye. *Nanoscale*, **2014**, 6, 9559-62	7.7	48
151	Perspectives on point defect thermodynamics. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 97-129	1.3	45
150	Electronic structures and phonon free energies of LaCoO3 using hybrid-exchange density functional theory. *Physical Review B*, **2013**, 87,	3.3	25
149	New methods for calculating the free energy of charged defects in solid electrolytes. *Journal of Physics Condensed Matter*, **2013**, 25, 395001	1.8	2
148	On the growth of Al2O3 scales. *Acta Materialia*, **2013**, 61, 6670-6683	8.4	103
147	Atomistic force field for alumina fit to density functional theory. *Journal of Chemical Physics*, **2013**, 139, 204704	3.9	9
146	Structure of multilayer ZrO2/SrTiO3. *Journal of Materials Science*, **2012**, 47, 1631-1640	4.3	19
145	Preface to the Special Section E-MRS MACAN. *Journal of Materials Science*, **2012**, 47, 1603-1604	4.3	
144	On the possibility of rhenium clustering in nickel-based superalloys. *Acta Materialia*, **2012**, 60, 2866-2872	8.4	67
143	Concepts for simulating and understanding materials at the atomic scale. *MRS Bulletin*, **2012**, 37, 477-484	5.2	10
142	Quantum mechanical simulations of electronic stopping in metals. *Nuclear Instruments & Methods in Physics Research B*, **2011**, 269, 1640-1645	1.2	10
141	Long range interactions in nanoscale science. *Reviews of Modern Physics*, **2010**, 82, 1887-1944	40.5	304
140	The treatment of electronic excitations in atomistic models of radiation damage in metals. *Reports on Progress in Physics*, **2010**, 73, 116501	14.4	91
139	The Structure of Grain Boundaries in Strontium Titanate: Theory, Simulation, and Electron Microscopy. *Annual Review of Materials Research*, **2010**, 40, 557-599	12.8	40
138	Solid-liquid interface free energy through metadynamics simulations. *Physical Review B*, **2010**, 81,	3.3	69
137	Atomic-scale characterization of the SrTiO3 Σ(112)[1$\bar{1}$0] grain boundary. *Physical Review B*, **2010**, 81,	3.3	16
136	Atom probe tomography analysis of the distribution of rhenium in nickel alloys. *Acta Materialia*, **2010**, 58, 931-942	8.4	84
135	Aiding the Design of Radiation Resistant Materials with Multiphysics Simulations of Damage Processes. *Materials Research Society Symposia Proceedings*, **2009**, 1229, 30601		2

134	Energetics of charged point defects in rutile TiO2 by density functional theory. *Acta Materialia*, **2009**, 57, 5882-5891	8.4	29
133	Supercell size scaling of density functional theory formation energies of charged defects. *Physical Review B*, **2009**, 79,	3.3	154
132	Bi3.25La0.75Ti3O12films on La2Ti2O7thin films prepared by chemical solution deposition. *Journal of Physics: Conference Series*, **2008**, 94, 012014	0.3	2
131	Correlated electron-ion dynamics in metallic systems. *Computational Materials Science*, **2008**, 44, 16-20	3.2	12
130	Interatomic potentials for strontium titanate: An assessment of their transferability and comparison with density functional theory. *Physical Review B*, **2008**, 78,	3.3	60
129	Surface structure and water adsorption on Fe3O4(111): Spin-density functional theory and on-site Coulomb interactions. *Physical Review B*, **2008**, 77,	3.3	88
128	Solid-liquid phase equilibria from free-energy perturbation calculations. *Physical Review B*, **2008**, 78,	3.3	5
127	Magnetic tight binding and the iron-chromium enthalpy anomaly. *Physical Review B*, **2008**, 77,	3.3	34
126	Al-oxynitride interfacial layer investigations for PrXOYon SiC and Si. *Journal of Physics: Conference Series*, **2008**, 94, 012004	0.3	7
125	First principles investigation of polarisation at interfaces in multilayered strontium titanate. *Journal of Physics: Conference Series*, **2008**, 94, 012005	0.3	4
124	Studies of grain orientations and grain boundaries in polycrystalline SrTiO3. *Journal of Physics: Conference Series*, **2008**, 94, 012008	0.3	4
123	Effect of surface orientation on intrinsic island formation on SrTiO3surfaces. *Journal of Physics: Conference Series*, **2008**, 94, 012013	0.3	1
122	Changes in macroscopic behaviour through segregation in niobium doped strontium titanate. *Journal of Physics: Conference Series*, **2008**, 94, 012015	0.3	4
121	Dielectric properties of pure and Nb-doped SrTiO3surfaces: a reflection electron energy loss spectroscopy study. *Journal of Physics: Conference Series*, **2008**, 94, 012010	0.3	1
120	A critique of rhenium clustering in Ni□Re alloys using extended X-ray absorption spectroscopy. *Acta Materialia*, **2008**, 56, 2669-2675	8.4	52
119	Prediction of high-temperature point defect formation in TiO2 from combined ab initio and thermodynamic calculations. *Acta Materialia*, **2007**, 55, 4325-4337	8.4	101
118	Bond-order potentials through the ages. *Progress in Materials Science*, **2007**, 52, 133-153	42.2	28
117	Atomistic study of ordinary screw dislocations in single-phase and lamellar □TiAl. *Philosophical Magazine*, **2007**, 87, 1795-1809	1.6	21

116	Electronic damping of atomic dynamics in irradiation damage of metals. *Journal of Physics Condensed Matter*, **2007**, 19, 436209	1.8	30
115	Interstitials in FeCr alloys studied by density functional theory. *Physical Review B*, **2007**, 76,	3.3	43
114	Structural and chemical embrittlement of grain boundaries by impurities: A general theory and first-principles calculations for copper. *Physical Review B*, **2006**, 74,	3.3	108
113	Magnetism and thermodynamics of defect-free Fe-Cr alloys. *Physical Review B*, **2006**, 74,	3.3	162
112	THE OXIDATION OF NIAL: What Can We Learn from Ab Initio Calculations?. *Annual Review of Materials Research*, **2005**, 35, 167-207	12.8	112
111	An isothermal-isobaric Langevin thermostat for simulating nanoparticles under pressure: application to Au clusters. *ChemPhysChem*, **2005**, 6, 1848-52	3.2	9
110	Stability of Sr adatom model structures for SrTiO3(001) surface reconstructions. *Journal of Physics Condensed Matter*, **2005**, 17, L223-L230	1.8	24
109	A faster way to relax interfaces in supercells. *Journal of Physics Condensed Matter*, **2004**, 16, S2671-S2678	1.8	
108	Ab initio transmission electron microscopy image simulations of coherent Ag/MgO interfaces. *Physical Review B*, **2004**, 70,	3.3	15
107	SrTiO3(001)(2×1) reconstructions: First-principles calculations of surface energy and atomic structure compared with scanning tunneling microscopy images. *Physical Review B*, **2004**, 70,	3.3	145
106	Interatomic forces in materials. *Progress in Materials Science*, **2004**, 49, 1-18	42.2	15
105	Bismuth embrittlement of copper is an atomic size effect. *Nature*, **2004**, 432, 1008-11	50.4	145
104	Analytic bond-order potentials for multicomponent systems. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 365, 2-13	5.3	48
103	The α-alumina(0001)surface: relaxations and dynamics from shell model and density functional theory. *Journal of the European Ceramic Society*, **2003**, 23, 2729-2735	6	16
102	A stabilization mechanism of zirconia based on oxygen vacancies only. *Acta Materialia*, **2002**, 50, 5171-5178	7.4	262
101	Electrostatic and Entropic Interactions between Parallel Interfaces Separated by a Glassy Film. *Journal of the American Ceramic Society*, **2002**, 85, 2562-2568	3.8	9
100	Dynamics and free energy of α-alumina (0001) surfaces: I. Semi-empirical model. *Journal of Physics Condensed Matter*, **2002**, 14, 7797-7810	1.8	10
99	Atomistic study of structural correlations at a liquid–solid interface. *Computational Materials Science*, **2002**, 24, 443-452	3.2	65

98	Electron energy-loss near-edge shape as a probe to investigate the stabilization of yttria-stabilized zirconia. *Physical Review B*, **2002**, 65,	3.3	51
97	Surface energy and the early stages of oxidation of NiAl(110). *Computer Physics Communications*, **2001**, 137, 174-194	4.2	25
96	Ordering at Solid-Liquid Interfaces Between Dissimilar Materials. *Journal of Materials Science*, **2001**, 9, 175-181		46
95	Free energy and molecular dynamics calculations for the cubic-tetragonal phase transition in zirconia. *Physical Review B*, **2001**, 63,	3.3	57
94	A physically transparent and transferable compressible ion model for oxides. *Journal of Chemical Physics*, **2001**, 114, 4406	3.9	13
93	Atomistic and electronic structure of Al/MgAl2O4 and Ag/MgAl2O4 interfaces. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **2001**, 81, 927-955		42
92	The use of XANES and ELNES for the Characterisation of Stabilised Zirconia. *Materials Research Society Symposia Proceedings*, **2001**, 699, 821		1
91	Simulation of a Grain Boundary in Zirconia. *Materials Research Society Symposia Proceedings*, **2000**, 654, 151		
90	Insight into gallium behavior in aluminum grain boundaries from calculation on Σ11 (113) boundary. *Acta Materialia*, **2000**, 48, 3623-3632	8.4	44
89	Equilibrium and adhesion of Nb/sapphire: The effect of oxygen partial pressure. *Physical Review B*, **2000**, 62, 4698-4706	3.3	147
88	Surface stoichiometry and the initial oxidation of NiAl(110). *Physical Review Letters*, **2000**, 85, 610-3	7.4	65
87	Effect of relaxation on the oxygen K-edge electron energy-loss near-edge structure in yttria-stabilized zirconia. *Physical Review B*, **2000**, 62, 14728-14735	3.3	46
86	Relative energetics and structural properties of zirconia using a self-consistent tight-binding model. *Physical Review B*, **2000**, 61, 6617-6630	3.3	76
85	Point Defects in NiAl Alloys Under Pressure **2000**, 439-454		3
84	Pressure-Induced Isostructural Phase Transition in Al-Rich NiAl Alloys. *Physical Review Letters*, **1999**, 83, 979-982	7.4	27
83	Ab initio calculations on the Al2O3(0001) surface. *Faraday Discussions*, **1999**, 114, 33-43	3.6	112
82	First-Principles Calculations of the Ideal Cleavage Energy of Bulk Niobium(111)/Σ5Alumina(0001) Interfaces. *Physical Review Letters*, **1999**, 82, 1510-1513	7.4	154
81	Point defects and chemical potentials in ordered alloys. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1998**, 77, 447-464		83

80	Accessing the Excess: An Atomistic Approach to Excesses at Planar Defects and Dislocations in Ordered Compounds. *Physica Status Solidi A*, **1998**, 166, 397-416		54
79	A Density Functional Study of Interactions at the Metal□Ceramic Interfaces Al/MgAl2O4 and Ag/MgAl2O4. *Physica Status Solidi A*, **1998**, 166, 417-428		22
78	Energies of defects in ordered alloys: dislocation core energies in NiAl. *Acta Materialia*, **1998**, 46, 919-926	6.4	12
77	Representations of the local atomic density. *Journal of Physics Condensed Matter*, **1998**, 10, 7983-7993	1.8	4
76	Crystal Structures of Zirconia from First Principles and Self-Consistent Tight Binding. *Physical Review Letters*, **1998**, 81, 5149-5152	7.4	108
75	Theoretical and experimental investigations of structures and energies of □ = 3, [112] tilt grain boundaries in copper. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1998**, 77, 1161-1184		49
74	A Coupled Compressible and Polarizable Ionic Model Applied to Oxide Crystal Structures. *Materials Research Society Symposia Proceedings*, **1998**, 547, 197		
73	A Density Functional Study of Interactions at the Metal□Ceramic Interfaces Al/MgAl2O4 and Ag/MgAl2O4 **1998**, 166, 417		1
72	Self-Consistent Tight-Binding Approximation Including Polarisable Ions. *Materials Research Society Symposia Proceedings*, **1997**, 491, 265		4
71	Ab Initio Study of Electronic and Geometric Structures of Metal/Ceramic Heterophase Boundaries. *Materials Research Society Symposia Proceedings*, **1997**, 492, 97		8
70	Ab initio computational study of Ga in an Al grain boundary. *Philosophical Magazine Letters*, **1997**, 76, 281-288	1	19
69	Calculating Grain Boundary Energies and Other Defect Energies in Ordered Alloys **1997**, 339-347		3
68	First-principles study of the atomistic and electronic structure of the niobium--alumina (0001) interface. *Philosophical Magazine Letters*, **1996**, 73, 377-384	1	49
67	Why TiC(111) is observed to be Ti terminated. *Surface Science*, **1996**, 348, 49-54	1.8	30
66	Transferable model for the atomistic simulation of Al2O3. *Physical Review B*, **1996**, 54, 15683-15689	3.3	44
65	The theory of metal - ceramic interfaces. *Journal of Physics Condensed Matter*, **1996**, 8, 5811-5836	1.8	426
64	Prediction of the BCC Structure in a Cu □-84□Tilt Grain Boundary and Its Confirmation by HRTEM. *Materials Science Forum*, **1996**, 207-209, 337-340	0.4	1
63	Calculating and Understanding the Structure of Interfaces. *Materials Science Forum*, **1996**, 207-209, 35-46	0.4	2

62	Determination of the Atomistic Structure of the Σ (111) Twin Boundary in NiAl. *Materials Science Forum*, **1996**, 207-209, 245-248	0.4	29
61	Atomistic Simulation of Grain Boundaries in Alumina. *Materials Science Forum*, **1996**, 207-209, 225-228	0.4	8
60	Transferable atomistic model to describe the energetics of zirconia. *Physical Review B*, **1996**, 54, 9147-9159	3.3	54
59	Improved representation of metallic bonding in atomistic simulations. *Philosophical Magazine Letters*, **1996**, 73, 39-44	1	2
58	The temperature dependence of the Debye-Waller factors of B2 NiAl. *Philosophical Magazine Letters*, **1996**, 73, 137-144	1	15
57	Ab initio atomistic simulation of the strength of defective aluminum and tests of empirical force models. *Physical Review B*, **1995**, 52, 15191-15207	3.3	61
56	Prediction and observation of the bcc structure in pure copper at a Sigma 3 grain boundary. *Physical Review Letters*, **1995**, 75, 2160-2163	7.4	55
55	Comment on "Metal-ceramic adhesion and the Harris functional". *Physical Review Letters*, **1995**, 74, 3083	7.4	5
54	The interaction of a point charge with a metal surface: theory and calculations for (111), (100) and (110) aluminium surfaces. *Journal of Physics Condensed Matter*, **1995**, 7, 2001-2019	1.8	28
53	Ab initio calculations of metal/ceramic interfaces: what have we learned, what can we learn?. *Scripta Materialia*, **1995**, 6, 145-155		33
52	Ab initio and Model Calculations on Different Phases of Zirconia. *Materials Research Society Symposia Proceedings*, **1995**, 408, 321		
51	The structure of special grain boundaries in Al2O3. *Journal of Physics and Chemistry of Solids*, **1994**, 55, 1067-1082	3.9	30
50	First-Principles Calculations for Niobium Atoms on a Sapphire Surface. *Journal of the American Ceramic Society*, **1994**, 77, 431-436	3.8	57
49	Theoretical and experimental analysis of near Σ (211) boundaries in silver. *Acta Metallurgica Et Materialia*, **1994**, 42, 3555-3567		43
48	First Principles Calculations for Metal/Ceramic Interfaces. *Materials Research Society Symposia Proceedings*, **1994**, 357, 427		2
47	Understanding adhesion between metal and oxide. *Materials at High Temperatures*, **1994**, 12, 189-194	1.1	5
46	Energetic and kinetic aspects of the faceting transformation of a Σ grain boundary in Cu. *Acta Metallurgica Et Materialia*, **1993**, 41, 2163-2171		27
45	Simulation on all length scales. *Physics World*, **1993**, 6, 37-43	0.5	2

44	Theoretical prediction and direct observation of the 9R structure in Ag. *Physical Review Letters*, **1992**, 69, 620-623	7.4	135
43	Metal-ceramic cohesion and the image interaction. *Acta Metallurgica Et Materialia*, **1992**, 40, S25-S37		102
42	The influence of grain boundary inclination on the structure and energy of Σ 3 grain boundaries in copper. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1992**, 66, 991-1016		167
41	The interaction of a point charge with an aluminium (111) surface. *Surface Science*, **1991**, 241, 61-72	1.8	69
40	Thermal excitation of electrons in energetic displacement cascades. *Physical Review B*, **1991**, 44, 567-574	3.3	171
39	The Harris functional applied to surface and vacancy formation energies in aluminium. *Journal of Physics Condensed Matter*, **1990**, 2, 331-342	1.8	77
38	Observations and theory of thermally-induced helium bubble shrinkage in gold. *Journal of Nuclear Materials*, **1989**, 168, 19-23	3.3	11
37	Application of the Tight-Binding Bond Model **1989**, 369-380		
36	Irradiation creep models an overview. *Journal of Nuclear Materials*, **1988**, 159, 257-285	3.3	107
35	The tight-binding bond model. *Journal of Physics C: Solid State Physics*, **1988**, 21, 35-66		383
34	Interatomic forces in transition metals. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1988**, 58, 143-163		59
33	Validity of the second moment tight-binding model. *Journal of Physics F: Metal Physics*, **1988**, 18, L153-L157		103
32	A comparison of methods for calculating tight-binding bond energies. *Journal of Physics F: Metal Physics*, **1988**, 18, 693-718		26
31	Phonon softening in ferromagnetic BCC iron. *Journal of Physics F: Metal Physics*, **1987**, 17, 2049-2055		19
30	Bond energies and defect forces around a vacancy in BCC transition metals. *Journal of Physics F: Metal Physics*, **1987**, 17, L273-L281		24
29	Simple N-body potentials for the noble metals and nickel. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1987**, 56, 735-756		524
28	The role of the interface in determining the orientation of solid rare gas bubbles in metals. *Acta Metallurgica*, **1987**, 35, 2543-2547		13
27	Response Functions and Interatomic Forces. *Springer Series in Solid-state Sciences*, **1987**, 120-131	0.4	2

26	Interatomic Forces and the Simulation of Cracks **1987**, 177-195		2
25	Semi-empirical calculation of solid surface tensions in body-centred cubic transition metals. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1986**, 54, 301-315		169
24	Instability of the rate equations for creep coupled to swelling. *Journal of Nuclear Materials*, **1985**, 132, 277-283	3.3	1
23	A calculation of elastic constants of ferromagnetic iron at finite temperatures. *Journal of Physics F: Metal Physics*, **1985**, 15, 19-34		52
22	A simple empirical N-body potential for transition metals. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1984**, 50, 45-55		2630
21	Interatomic Forces and Phonon Anomalies in bcc 3d Transition Metals. *Physical Review Letters*, **1984** , 52, 291-294	7.4	54
20	The energy of helium filled platelets and bubbles in molybdenum. *Radiation Effects*, **1983**, 78, 121-132		28
19	Crack-Tip Blunting Versus Cleavage Extension **1983**, 1047-1051		10
18	Theoretical Aspects of Liquid Metal Embrittlement **1982**, 253-273		
17	A theory of peaks in the time-of-flight spectrum of gold atoms sputtered from a (100) surface. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1981**, 43, 1321-1344		2
16	A theory of irradiation and thermal creep by dislocation climb. *Journal of Nuclear Materials*, **1981**, 104, 1263-1267	3.3	11
15	The movement of lenticular pores in mixed oxide (U, Pu) O2 nuclear fuel elements. *Journal of Nuclear Materials*, **1978**, 75, 115-124	3.3	7
14	Plutonium redistribution in mixed oxide (U, Pu)O2 nuclear fuel elements. *Journal of Nuclear Materials*, **1978**, 75, 193-200	3.3	20
13	Vacancy formation energies and volumes in simple metals. *Journal of Nuclear Materials*, **1978**, 69-70, 638-640	3.3	3
12	Heat of transport in solids. III. Computer simulation of vacancy in an FCC crystal. *Journal of Physics C: Solid State Physics*, **1978**, 11, 4469-4483		21
11	Theory of vacancy formation volume. *Journal of Physics F: Metal Physics*, **1977**, 7, 1999-2010		13
10	Sputtering of gold foils in a high voltage electron microscope A comparison of theory and experiment. *Philosophical Magazine and Journal*, **1977**, 35, 693-714		44
9	Vacancy formation volumes in simple metals. *Journal of Physics F: Metal Physics*, **1976**, 6, 965-978		57

8	Vacancy formation energies and linear screening theory. *Journal of Physics F: Metal Physics*, **1976**, 6, 483-498	63
7	Defect energies and linear screening theory in simple metals. *Journal of Physics F: Metal Physics*, **1975**, 5, 2227-2240	19
6	Theory of lattice contraction at aluminium surfaces. *Journal of Physics F: Metal Physics*, **1974**, 4, L37-L41	296
5	A simple theory of some phase transitions. *Journal of Physics F: Metal Physics*, **1974**, 4, 960-968	23
4	The energy and elastic constants of simple metals in terms of pairwise interactions. *Journal of Physics F: Metal Physics*, **1974**, 4, 1645-1656	106
3	The theory of distorted structures in the Cd-Mg and In-Tl alloy systems. *Journal of Physics F: Metal Physics*, **1974**, 4, 969-980	4
2	Atomistic and electronic structure of Al/MgAl2O4 and Ag/MgAl2O4 interfaces	1
1	Point defects and chemical potentials in ordered alloys	10