

# Knut Marthinsen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149  
papers

2,653  
citations

27  
h-index

45  
g-index

152  
ext. papers

3,049  
ext. citations

3.2  
avg. IF

5.24  
L-index

#	Paper	IF	Citations
149	Dynamic strain ageing in an AlMg alloy at different strain rates and temperatures: Experiments and constitutive modelling. <i>International Journal of Plasticity</i> , <b>2022</b> , 151, 103215	7.6	0
148	The effect of heavy deformation on the precipitation in an Al-1.3Cu-1.0Mg-0.4Si wt.% alloy. <i>Materials and Design</i> , <b>2020</b> , 186, 108203	8.1	12
147	Microstructure Evolution and Recrystallization Resistance of a 7055 Alloy Fabricated by Spray Forming Technology and by Conventional Ingot Metallurgy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 5378-5388	2.3	6
146	Characterization of the Density and Spatial Distribution of Dispersoids in Al-Mg-Si Alloys. <i>Metals</i> , <b>2019</b> , 9, 26	2.3	3
145	Orientation Independent and Dependent Subgrain Growth During Iso-Thermal Annealing of High-Purity and Commercial Purity Aluminium. <i>Metals</i> , <b>2019</b> , 9, 1032	2.3	2
144	Revealing abnormal {112} twins in commercial purity Ti subjected to split Hopkinson pressure bar. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 783, 513-523	5.7	4
143	Correlating oriented grain number density of recrystallisation in particle-containing aluminium alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2018</b> , 28, 220-225	3.3	8
142	Segregation of Mg, Cu and their effects on the strength of Al B (210)[001] symmetrical tilt grain boundary. <i>Acta Materialia</i> , <b>2018</b> , 145, 235-246	8.4	59
141	The double-edge effect of second-phase particles on the recrystallization behaviour and associated mechanical properties of metallic materials. <i>Progress in Materials Science</i> , <b>2018</b> , 92, 284-359	42.2	224
140	Quantifying the grain boundary segregation strengthening induced by post-ECAP aging in an Al-5Cu alloy. <i>Acta Materialia</i> , <b>2018</b> , 155, 199-213	8.4	36
139	The effect of iron and the precipitation behavior of iron during annealing of a cold deformed commercial purity aluminium alloy. <i>Materials Characterization</i> , <b>2017</b> , 129, 18-23	3.9	7
138	The deformation and work hardening behaviour of a SPD processed Al-5Cu alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 697, 239-248	5.7	24
137	Soft particles assisted grain refinement and strengthening of an Al-Bi-Zn alloy subjected to ECAP. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 703, 304-313	5.3	12
136	Twinnability of AlMg alloys: A first-principles interpretation. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2017</b> , 27, 1313-1318	3.3	2
135	Combined effect of Mg and vacancy on the generalized planar fault energy of Al. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 690, 841-850	5.7	14
134	Formation of {112} twin boundaries in titanium by kinking mechanism through accumulative dislocation slip. <i>Acta Materialia</i> , <b>2016</b> , 120, 403-414	8.4	37
133	Orientation Preference of Recrystallization in Supersaturated Aluminum Alloys Influenced by Concurrent Precipitation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 1378-1388	2.3	16

132	On the sluggish recrystallization of a cold-rolled AlMnFeSi alloy. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 1632-1643	4.3	12
131	The Influence of Processing Conditions on Microchemistry and the Softening Behavior of Cold Rolled Al-Mn-Fe-Si Alloys. <i>Metals</i> , <b>2016</b> , 6, 61	2.3	4
130	Impurity effect of Mg on the generalized planar fault energy of Al. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6552-6568	4.3	31
129	Two-stage annealing of a cold-rolled AlMnFeSi alloy with different microchemistry states. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 221, 87-99	5.3	26
128	Effect of heterogeneously distributed pre-existing dispersoids on the recrystallization behavior of a cold-rolled AlMnFeSi alloy. <i>Materials Characterization</i> , <b>2015</b> , 102, 92-97	3.9	35
127	The influence of microchemistry on the recrystallization texture of cold-rolled Al-Mn-Fe-Si alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 82, 012035	0.4	2
126	The effect of heating rate on the softening behaviour of a deformed AlMn alloy with strong and weak concurrent precipitation. <i>Materials Characterization</i> , <b>2015</b> , 110, 215-221	3.9	18
125	The Influence of Microchemistry and Processing Conditions on the Softening Behavior of Cold-Rolled Al-Mn-Fe-Si Alloys <b>2015</b> , 153-162		
124	Formation of incoherent deformation twin boundaries in a coarse-grained Al-7Mg alloy. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 091901	3.4	13
123	Recrystallization behaviour of AA6063 extrusions. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 89, 012057	0.4	
122	Precipitation, strength and work hardening of age hardened aluminium alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 89, 012013	0.4	10
121	Factors affecting the strength of P{011}<566>-texture after annealing of a cold-rolled AlMnFeSi alloy. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 5091-5103	4.3	14
120	Deformation of an AlMg alloy with extensive structural micro-segregations during dynamic plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 628, 160-167	5.3	21
119	Evolution in microstructure and properties during non-isothermal annealing of a cold-rolled AlMnFeSi alloy with different microchemistry states. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 628, 216-229	5.3	39
118	The Influence of Microchemistry and Processing Conditions on the Softening Behavior of Cold-Rolled Al-Mn-Fe-Si Alloys <b>2015</b> , 157-162		
117	Microstructural Evolution during Isothermal Annealing of a Cold-Rolled Al-Mn-Fe-Si Alloy with Different Microchemistry States. <i>Materials Science Forum</i> , <b>2014</b> , 794-796, 1163-1168	0.4	8
116	Modelling Microstructure and Properties during Annealing of Cold-Rolled Al-Mn-Fe-Si-Alloys with Different Microchemistries. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 57-62	0.4	7
115	Isothermal and Non-Isothermal Annealing of Cold-Rolled Al-Mn-Fe-Si Alloys with Different Microchemistry States. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 174-179	0.4	6

114	On the Effect of Atoms in Solid Solution on Grain Growth Kinetics. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 4882-4890	2.3	20
113	The influence of microchemistry on the softening behaviour of two cold-rolled AlMnFeSi alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 601, 86-96	5.3	42
112	The effects of quench rate and pre-deformation on precipitation hardening in AlMgSi alloys with different Cu amounts. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 609, 72-79	5.3	20
111	Isothermal annealing of cold-rolled AlMnFeSi alloy with different microchemistry states. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2014</b> , 24, 3840-3847	3.3	12
110	Hardening of Al-Mg-Si Alloys and Effective Particle Size in Microstructural Models. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 252-257	0.4	
109	The Effect of Solute Atoms on Grain Boundary Migration: A Solute Pinning Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 3364-3375	2.3	20
108	Interface energy determination for the fully coherent $\beta$ phase in AlMgSi: making a case for a first principles based hybrid atomistic modelling scheme. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2013</b> , 21, 085018	2	7
107	TEM study of $\beta$ precipitate interaction mechanisms with dislocations and $\beta$ interfaces with the aluminium matrix in AlMgSi alloys. <i>Materials Characterization</i> , <b>2013</b> , 75, 1-7	3.9	43
106	The effect of simultaneous deformation and annealing on the precipitation behaviour and mechanical properties of an AlMgSi alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 565, 228-235	5.3	21
105	Recovery Kinetics in High Purity and Commercial Purity Aluminium Alloys. <i>Materials Science Forum</i> , <b>2013</b> , 753, 235-238	0.4	1
104	Characterization the Softening Behavior of Cold Rolled AlMnFeSi-Alloys during Conditions of Concurrent Precipitation. <i>Materials Science Forum</i> , <b>2013</b> , 753, 231-234	0.4	4
103	Modelling Time-Dependent Nucleation of Recrystallization in Aluminium Alloys. <i>Materials Science Forum</i> , <b>2013</b> , 753, 147-152	0.4	2
102	Modelling the Evolution in Microchemistry and its Effects on the Softening Behavior of Cold Rolled AlFeMnSi-Alloys during Annealing. <i>Materials Science Forum</i> , <b>2013</b> , 753, 143-146	0.4	7
101	Through-process sensitivity analysis on the effect of process variables on strength in extruded AlMgSi alloys. <i>Journal of Materials Processing Technology</i> , <b>2012</b> , 212, 171-180	5.3	9
100	Modelling the Recrystallization Behaviour during Industrial Processing of Aluminium Alloys. <i>Materials Science Forum</i> , <b>2012</b> , 715-716, 543-548	0.4	3
99	Hardening of Al-Mg-Si Alloys and Effect of Particle Structure. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 283-288	0.4	5
98	Combined effect of deformation and artificial aging on mechanical properties of AlMgSi Alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2012</b> , 22, 1824-1830	3.3	24
97	Effect of quenching rate on microstructure and mechanical properties of commercial AA7108 aluminium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2012</b> , 22, 1872-1877	3.3	9

96	Evolution in microstructure and mechanical properties during back-annealing of AlMnFeSi alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2012</b> , 22, 1878-1883	3.3	8
95	Precipitation crystallography of plate-shaped Al <sub>6</sub> (Mn,Fe) dispersoids in AA5182 alloy. <i>Acta Materialia</i> , <b>2012</b> , 60, 5963-5974	8.4	58
94	The Effect of Preaging Deformation on the Precipitation Behavior of an Al-Mg-Si Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 4006-4014	2.3	48
93	Mobility Driven Abnormal Grain Growth in the Presence of Particles. <i>Materials Science Forum</i> , <b>2012</b> , 715-716, 930-935	0.4	2
92	On the Recrystallization Kinetics of 3D Potts Monte Carlo Simulations. <i>Materials Science Forum</i> , <b>2012</b> , 715-716, 959-964	0.4	
91	Combined Effect of Deformation and Precipitation on Tensile Properties of an Al-Mg-Si Alloy. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 351-356	0.4	1
90	Effect of alloying elements on stage-III work-hardening behaviour of AlZnMg(Cu) alloys. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 603-608	0.5	4
89	Effect of simultaneous deformation and artificial ageing on the mechanical properties of an AlMgSi alloy. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 962-971	0.5	1
88	Evolution in Microchemistry and its Effects on Deformation and Annealing Behavior of an AlMnFeSi Alloy <b>2012</b> , 1837-1842		
87	Orientation Dependent Subgrain Growth During Isothermal Annealing of High-Purity Aluminum <b>2012</b> , 1713-1718		
86	Modeling of Work-Hardening in an Age-Hardenable AA7108 Aluminum Alloy <b>2012</b> , 1785-1790		
85	Numerical Modeling of Oxy-Fuel and Air-Fuel Burners for Aluminium Melting <b>2012</b> , 1037-1042		
84	Effect of Pre-Deformation on Mechanical Response of an Artificially Aged Al-Mg-Si Alloy. <i>Materials Transactions</i> , <b>2011</b> , 52, 1356-1362	1.3	22
83	Three-Point Bending of Heat-Treatable Aluminum Alloys: Influence of Microstructure and Texture on Bendability and Fracture Behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 3386-3398	2.3	21
82	Experimental and theoretical study of electron density and structure factors in CoSb <sub>2</sub> <i>Ultramicroscopy</i> , <b>2011</b> , 111, 847-53	3.1	10
81	HRTEM study of the effect of deformation on the early precipitation behaviour in an AA6060 AlMgSi alloy. <i>Philosophical Magazine</i> , <b>2011</b> , 91, 3744-3754	1.6	47
80	3D Crystal Plasticity Modelling of Complex Microstructures in Extruded Products <b>2011</b> ,		1
79	Matrix Coherency Strain and Hardening of Al-Mg-Si. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 229-234	0.4	1

78	Modelling the Work Hardening Behaviour of AlMgMn Alloys. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 285-290	0.4	0
77	Anisotropy of Bending Properties in Industrial Heat-Treatable Extruded Aluminium Alloys. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 487-492	0.4	6
76	A 3D Monte Carlo study of the effect of grain boundary anisotropy and particles on the size distribution of grains after recrystallisation and grain growth. <i>Computational Materials Science</i> , <b>2010</b> , 48, 267-281	3.2	18
75	The Effect of Deformation on the Work Hardening Behaviour after Aging of Two Commercial Al-Mg-Si Alloys. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 261-266	0.4	4
74	Work-hardening behaviour of a heat-treatable AA7108 aluminium alloy deformed to intermediate strains by compression. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 5323-5331	4.3	8
73	Electron energy loss spectroscopy of the L <sub>2,3</sub> edge of phosphorus skutterudites and electronic structure calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	5
72	Work- and Age-Hardening Behaviour of a Commercial AA7108 Aluminium Alloy. <i>Materials Science Forum</i> , <b>2009</b> , 618-619, 555-558	0.4	2
71	Ageing and work-hardening behaviour of a commercial AA7108 aluminium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 524, 151-157	5.3	27
70	Precipitation kinetic of Al <sub>3</sub> (Sc,Zr) dispersoids in aluminium. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 470, 107-110	5.7	115
69	Thermal stability of Al <sub>3</sub> (Sc <sub>x</sub> Zr <sub>1-x</sub> )-dispersoids in extruded aluminium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 475, 241-248	5.3	48
68	Solute and Second Phase Evolution during Industrial Processing of AA3103. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 281-286	0.4	1
67	On the Validation of the Monte Carlo Technique in Simulation of Grain Growth in Small, Two-Dimensional Systems. <i>Materials Science Forum</i> , <b>2007</b> , 558-559, 1087-1092	0.4	
66	Computer Simulations of Kinetics and Texture of Recrystallisation by a 3-D Potts Monte Carlo Model. <i>Materials Science Forum</i> , <b>2007</b> , 558-559, 1069-1074	0.4	1
65	Effect of Changing Homogenization Treatment on the Particle Structure in Mn-Containing Aluminium Alloys. <i>Materials Science Forum</i> , <b>2007</b> , 558-559, 301-306	0.4	7
64	Development of Aluminium Alloys with Ultimate Recrystallisation Resistance. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 167-172	0.4	1
63	Grain size correlation during normal grain growth in one dimension. <i>Scripta Materialia</i> , <b>2006</b> , 55, 939-942	5.6	9
62	Work Hardening Behaviour of Heat-Treatable Al-Mg-Si-Alloys. <i>Materials Science Forum</i> , <b>2006</b> , 519-521, 1901-1906	0.4	17
61	Deformation and Recrystallization Behaviour of a Homogenised and a Heterogenised Al-Mg-Si Alloy. <i>Materials Science Forum</i> , <b>2006</b> , 519-521, 1611-1616	0.4	

60	Recrystallisation Resistance of Extruded and Cold Rolled Aluminium Alloys with Additions of Hf, Sc and Zr. <i>Materials Science Forum</i> , <b>2006</b> , 519-521, 525-530	0.4	3
59	The formation of Al <sub>3</sub> (ScxZryHf1-x-y)-dispersoids in aluminium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 421, 154-160	5.3	52
58	Rapid precipitation of dispersoids during extrusion of an Al-0.91wt.% Mn-0.13wt.% Zr-0.17wt.% Sc-alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 424, 174-180	5.3	16
57	A study of charge density in copper. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2005</b> , 61, 223-30		13
56	A unified microstructural metal plasticity model applied in testing, processing, and forming of aluminium alloys. <i>International Journal of Materials Research</i> , <b>2005</b> , 96, 532-545		14
55	Modelling the Softening Behaviour of Commercial AlMn-Alloys. <i>Materials Science Forum</i> , <b>2004</b> , 467-470, 677-682	0.4	2
54	The Effect of Sc on the Extrudability and Recrystallisation Resistance of Al-Mn-Zr-Alloys. <i>Materials Science Forum</i> , <b>2004</b> , 467-470, 369-374	0.4	3
53	The effect of boundary spacing on substructure strengthening. <i>Materials Science and Technology</i> , <b>2004</b> , 20, 1377-1382	1.5	17
52	Three dimensional atom probe investigation on the formation of Al <sub>3</sub> (Sc,Zr)-dispersoids in aluminium alloys. <i>Scripta Materialia</i> , <b>2004</b> , 51, 333-337	5.6	167
51	Precipitation and recrystallisation in AlMnZr with and without Sc. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 387-389, 936-939	5.3	46
50	Extinction-free electron diffraction refinement of bonding in SrTiO <sub>3</sub> . <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2004</b> , 60, 402-8		20
49	An investigation of dilute Al <sub>3</sub> Si and Al <sub>3</sub> (Si) alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 387-389, 940-943	5.3	28
48	The spatial distribution of nucleation sites and its effect on recrystallization kinetics in commercial aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2003</b> , 34, 2705-2715	2.3	10
47	Coupled FEM and Microstructure Modeling Applied to Rolling and Extrusion of Aluminium Alloys. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 3777-3782	0.4	5
46	Magnesium: Comparison of density functional theory calculations with electron and x-ray diffraction experiments. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 11359-11366	3.9	38
45	Improved tight-binding parametrization for the simulation of stacking faults in aluminum. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	2
44	On the mechanisms of dynamic recovery. <i>Scripta Materialia</i> , <b>2002</b> , 47, 607-611	5.6	69
43	Modeling the evolution in microstructure and properties during plastic deformation of f.c.c.-metals and alloys – an approach towards a unified model. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 322, 176-193	5.3	98

42	Recrystallization Textures and the Evolution of the P-Orientation as a Function of Precipitation in an AA3103 Alloy. <i>Materials Science Forum</i> , <b>2002</b> , 408-412, 1471-1476	0.4	23
41	Modelling the Evolution of Microstructure and Properties during Deformation of Aluminium. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 315-326	0.4	2
40	Texture Evolution of an AA3xxx Alloy after Different Homogenisation Treatments. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 463-468	0.4	6
39	The Effect of Precipitation on the Recrystallization Behavior of a Supersaturated, Cold Rolled AA3103 Aluminium Alloy. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 469-474	0.4	19
38	Modelling the evolution in microstructure and properties during processing of aluminium alloys. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 117, 333-340	5.3	16
37	On the mechanisms of work hardening and flow-stress saturation. <i>Scripta Materialia</i> , <b>2000</b> , 43, 55-62	5.6	45
36	Industrial Verification of Microstructural Models for Thermomechanical Processing by Application to Hot Rolling of AA3104. <i>Materials Science Forum</i> , <b>2000</b> , 331-337, 551-556	0.4	6
35	The ALFLOW-Model - A Microstructural Approach to Constitutive Plasticity-Modelling of Aluminium Alloys. <i>Materials Science Forum</i> , <b>2000</b> , 331-337, 1231-1242	0.4	2
34	Modelling the Work Hardening in Cold Rolled and Annealed Aluminium Sheet. <i>Materials Science Forum</i> , <b>2000</b> , 331-337, 557-564	0.4	3
33	Substructure Strengthening in Aluminium Alloys. <i>Materials Science Forum</i> , <b>2000</b> , 331-337, 1387-1392	0.4	12
32	The embedded-atom model applied to vacancy formation in bulk aluminium and lithium. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 3663-3677	1.8	5
31	Three-phase structure invariants and structure factors determined with the quantitative convergent-beam electron diffraction method. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1999</b> , 55, 188-196		1
30	Use of quantitative convergent-beam electron diffraction in materials science. <i>Microscopy Research and Technique</i> , <b>1999</b> , 46, 130-45	2.8	8
29	Characterization of 3-D particle distributions and effects on recrystallization kinetics and microstructure. <i>Scripta Materialia</i> , <b>1998</b> , 39, 1177-1183	5.6	19
28	Experimental and theoretical investigations of EELS near-edge fine structure in TiAl with and without ternary addition of V, Cr, or Mn. <i>Physical Review B</i> , <b>1998</b> , 57, 1585-1593	3.3	5
27	Transformation kinetics and microstructure for grain boundary nucleated recrystallization in two dimensions. <i>Acta Materialia</i> , <b>1997</b> , 45, 1127-1136	8.4	4
26	A general model for metal plasticity. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 234-236, 1095-1098	5.3	36
25	Non-centrosymmetry Effects and Polarity Determination in III-V Semiconductors. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1997</b> , 53, 366-375		7



24	Repeated grain boundary and grain corner nucleated recrystallization in one- and two-dimensional grain structures. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>1996</b> , 4, 87-100	2	4
23	Modeling recrystallization kinetics, grain sizes, and textures during multipass hot rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1996</b> , 27, 4133-4144 <sup>2-3</sup>	2.3	26
22	Comparative analysis of the size distributions of linear, planar, and spatial Poisson Voronoi cells. <i>Materials Characterization</i> , <b>1996</b> , 36, 53-63	3.9	12
21	The influence of spatial grain size correlation and topology on normal grain growth in two dimensions. <i>Acta Materialia</i> , <b>1996</b> , 44, 1681-1689	8.4	75
20	Efficient beam-selection criteria in quantitative convergent beam electron diffraction. <i>Ultramicroscopy</i> , <b>1996</b> , 66, 89-99	3.1	18
19	Multiple plasmon scattering contributions to CBED contrast. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , <b>1995</b> , 53, 132-133		
18	Analytical filtering of low-angle inelastic scattering contributions to CBED contrast. <i>Ultramicroscopy</i> , <b>1994</b> , 55, 268-275	3.1	3
17	On the minimum number of beams needed to distinguish enantiomorphs in X-ray and electron diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1994</b> , 50, 647-650		15
16	Particle Effects on Recrystallization of Metals. <i>Materials Science Forum</i> , <b>1993</b> , 113-115, 41-54	0.4	19
15	Commercial spectrometer modifications for energy filtering of electron diffraction patterns and images. <i>Ultramicroscopy</i> , <b>1993</b> , 52, 454-458	3.1	5
14	Structure factor determination in non-centrosymmetric crystals by a two-dimensional CBED-based multi-parameter refinement method. <i>Ultramicroscopy</i> , <b>1993</b> , 49, 159-170	3.1	21
13	On the sign ambiguity of triplet phases in nonsystematic many-beam effects in CBED patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1993</b> , 49, 324-330		5
12	Many-parameter refinements from CBED pattern. <i>Micron and Microscopica Acta</i> , <b>1992</b> , 23, 137-138		2
11	The development of recrystallization microstructures studied experimentally and by computer simulation. <i>Acta Metallurgica</i> , <b>1989</b> , 37, 135-145		62
10	Determination of structure-factor phase invariants and effective structure factors in non-centrosymmetric crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1988</b> , 44, 558-562		7
9	Determination of crystal symmetry from electron channelling patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1988</b> , 44, 693-700		9
8	On the breakdown of Friedel's law in electron backscattering channelling patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1988</b> , 44, 700-707		19
7	Determination of structure factor phase invariants from non-systematic many-beam effects in convergent-beam patterns. <i>Ultramicroscopy</i> , <b>1988</b> , 26, 25-30	3.1	21

6	Many-beam effects and phase information in electron channelling patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1986</b> , 42, 484-492		19
5	Determination of symmetry elements from selected area channeling patterns. <i>Ultramicroscopy</i> , <b>1985</b> , 17, 178	3.1	1
4	Effective structure factors in many-beam X-ray diffraction Use of the second Bethe approximation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1983</b> , 39, 854-860		27
3	Modeling of Work-Hardening in an Age-hardenable AA7108 Aluminum Alloy		1785-1790
2	Numerical Modeling of Oxy-Fuel and Air-fuel Burners for Aluminium Melting		1037-1042
1	Evolution in Microchemistry and Its Effect on Deformation and Annealing Behavior of an AlMnFeSi-Alloy		1837-1842