

Knut Marthinsen

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149
papers

2,653
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g-index

152
ext. papers

3,049
ext. citations

3.2
avg, IF

5.24
L-index

#	Paper	IF	Citations
149	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> , 2018 , 92, 284-359	42.2	224
148	Three dimensional atom probe investigation on the formation of Al ₃ (Sc,Zr)-dispersoids in aluminium alloys. <i>Scripta Materialia</i> , 2004 , 51, 333-337	5.6	167
147	Precipitation kinetic of Al ₃ (Sc,Zr) dispersoids in aluminium. <i>Journal of Alloys and Compounds</i> , 2009 , 470, 107-110	5.7	115
146	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 322, 176-193	5.3	98
145	The influence of spatial grain size correlation and topology on normal grain growth in two dimensions. <i>Acta Materialia</i> , 1996 , 44, 1681-1689	8.4	75
144	On the mechanisms of dynamic recovery. <i>Scripta Materialia</i> , 2002 , 47, 607-611	5.6	69
143	The development of recrystallization microstructures studied experimentally and by computer simulation. <i>Acta Metallurgica</i> , 1989 , 37, 135-145		62
142	Segregation of Mg, Cu and their effects on the strength of Al B (210)[001] symmetrical tilt grain boundary. <i>Acta Materialia</i> , 2018 , 145, 235-246	8.4	59
141	Precipitation crystallography of plate-shaped Al ₆ (Mn,Fe) dispersoids in AA5182 alloy. <i>Acta Materialia</i> , 2012 , 60, 5963-5974	8.4	58
140	The formation of Al ₃ (ScxZryHf1-x-y)-dispersoids in aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 421, 154-160	5.3	52
139	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> , 2012 , 43, 4006-4014	4.3	48
138	Thermal stability of Al ₃ (Scx,Zr1-x)-dispersoids in extruded aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 475, 241-248	5.3	48
137	HRTEM study of the effect of deformation on the early precipitation behaviour in an AA6060 AlMgSi alloy. <i>Philosophical Magazine</i> , 2011 , 91, 3744-3754	1.6	47
136	Precipitation and recrystallisation in AlMnZr with and without Sc. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 936-939	5.3	46
135	On the mechanisms of work hardening and flow-stress saturation. <i>Scripta Materialia</i> , 2000 , 43, 55-62	5.6	45
134	TEM study of θ precipitate interaction mechanisms with dislocations and θ interfaces with the aluminium matrix in AlMgSi alloys. <i>Materials Characterization</i> , 2013 , 75, 1-7	3.9	43
133	The influence of microchemistry on the softening behaviour of two cold-rolled AlMnFeSi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 601, 86-96	5.3	42

132	Evolution in microstructure and properties during non-isothermal annealing of a cold-rolled AlMnBeSi alloy with different microchemistry states. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 628, 216-229	5.3	39
131	Magnesium: Comparison of density functional theory calculations with electron and x-ray diffraction experiments. <i>Journal of Chemical Physics</i> , 2003 , 119, 11359-11366	3.9	38
130	Formation of {112̄0} twin boundaries in titanium by kinking mechanism through accumulative dislocation slip. <i>Acta Materialia</i> , 2016 , 120, 403-414	8.4	37
129	Quantifying the grain boundary segregation strengthening induced by post-ECAP aging in an Al-5Cu alloy. <i>Acta Materialia</i> , 2018 , 155, 199-213	8.4	36
128	A general model for metal plasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 234-236, 1095-1098	5.3	36
127	Effect of heterogeneously distributed pre-existing dispersoids on the recrystallization behavior of a cold-rolled AlMnBeSi alloy. <i>Materials Characterization</i> , 2015 , 102, 92-97	3.9	35
126	Impurity effect of Mg on the generalized planar fault energy of Al. <i>Journal of Materials Science</i> , 2016 , 51, 6552-6568	4.3	31
125	An investigation of dilute AlBe and AlBeSi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 940-943	5.3	28
124	Ageing and work-hardening behaviour of a commercial AA7108 aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 524, 151-157	5.3	27
123	Effective structure factors in many-beam X-ray diffraction Use of the second Bethe approximation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1983 , 39, 854-860		27
122	Two-stage annealing of a cold-rolled AlMnBeSi alloy with different microchemistry states. <i>Journal of Materials Processing Technology</i> , 2015 , 221, 87-99	5.3	26
121	Modeling recrystallization kinetics, grain sizes, and textures during multipass hot rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 4133-4144	2.3	26
120	The deformation and work hardening behaviour of a SPD processed Al-5Cu alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 697, 239-248	5.7	24
119	Combined effect of deformation and artificial aging on mechanical properties of AlMgSi Alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1824-1830	3.3	24
118	Recrystallization Textures and the Evolution of the P-Orientation as a Function of Precipitation in an AA3103 Alloy. <i>Materials Science Forum</i> , 2002 , 408-412, 1471-1476	0.4	23
117	Effect of Pre-Deformation on Mechanical Response of an Artificially Aged Al-Mg-Si Alloy. <i>Materials Transactions</i> , 2011 , 52, 1356-1362	1.3	22
116	The effect of simultaneous deformation and annealing on the precipitation behaviour and mechanical properties of an AlMgSi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 228-235	5.3	21
115	Deformation of an AlMg alloy with extensive structural micro-segregations during dynamic plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 628, 160-167	5.3	21

114	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> , 2011 , 42, 3386-3398	2.3	21
113	Structure factor determination in non-centrosymmetric crystals by a two-dimensional CBED-based multi-parameter refinement method. <i>Ultramicroscopy</i> , 1993 , 49, 159-170	3.1	21
112	Determination of structure factor phase invariants from non-systematic many-beam effects in convergent-beam patterns. <i>Ultramicroscopy</i> , 1988 , 26, 25-30	3.1	21
111	On the Effect of Atoms in Solid Solution on Grain Growth Kinetics. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4882-4890	2.3	20
110	The effects of quench rate and pre-deformation on precipitation hardening in AlMgSi alloys with different Cu amounts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 609, 72-79	5.3	20
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> , 2013 , 44, 3364-3375	2.3	20
108	Extinction-free electron diffraction refinement of bonding in SrTiO ₃ . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2004 , 60, 402-8		20
107	Characterization of 3-D particle distributions and effects on recrystallization kinetics and microstructure. <i>Scripta Materialia</i> , 1998 , 39, 1177-1183	5.6	19
106	The Effect of Precipitation on the Recrystallization Behavior of a Supersaturated, Cold Rolled AA3103 Aluminium Alloy. <i>Materials Science Forum</i> , 2002 , 396-402, 469-474	0.4	19
105	Particle Effects on Recrystallization of Metals. <i>Materials Science Forum</i> , 1993 , 113-115, 41-54	0.4	19
104	Many-beam effects and phase information in electron channelling patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1986 , 42, 484-492		19
103	On the breakdown of Friedel's law in electron backscattering channelling patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1988 , 44, 700-707		19
102	The effect of heating rate on the softening behaviour of a deformed AlMn alloy with strong and weak concurrent precipitation. <i>Materials Characterization</i> , 2015 , 110, 215-221	3.9	18
101	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> , 2010 , 48, 267-281	3.2	18
100	Efficient beam-selection criteria in quantitative convergent beam electron diffraction. <i>Ultramicroscopy</i> , 1996 , 66, 89-99	3.1	18
99	Work Hardening Behaviour of Heat-Treatable Al-Mg-Si-Alloys. <i>Materials Science Forum</i> , 2006 , 519-521, 1901-1906	0.4	17
98	The effect of boundary spacing on substructure strengthening. <i>Materials Science and Technology</i> , 2004 , 20, 1377-1382	1.5	17
97	Orientation Preference of Recrystallization in Supersaturated Aluminum Alloys Influenced by Concurrent Precipitation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 1378-1388	2.3	16

96	Rapid precipitation of dispersoids during extrusion of an Al0.91wt.% Mn0.13wt.% Zr0.17wt.% Sc-alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 424, 174-180	5.3	16
95	Modelling the evolution in microstructure and properties during processing of aluminium alloys. <i>Journal of Materials Processing Technology</i> , 2001 , 117, 333-340	5.3	16
94	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> , 1994 , 50, 647-650		15
93	Combined effect of Mg and vacancy on the generalized planar fault energy of Al. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 841-850	5.7	14
92	Factors affecting the strength of P{011}<566>-texture after annealing of a cold-rolled AlMnBeSi alloy. <i>Journal of Materials Science</i> , 2015 , 50, 5091-5103	4.3	14
91	A unified microstructural metal plasticity model applied in testing, processing, and forming of aluminium alloys. <i>International Journal of Materials Research</i> , 2005 , 96, 532-545		14
90	Formation of incoherent deformation twin boundaries in a coarse-grained Al-7Mg alloy. <i>Applied Physics Letters</i> , 2015 , 107, 091901	3.4	13
89	A study of charge density in copper. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005 , 61, 223-30		13
88	On the sluggish recrystallization of a cold-rolled AlMnBeSi alloy. <i>Journal of Materials Science</i> , 2016 , 51, 1632-1643	4.3	12
87	Soft particles assisted grain refinement and strengthening of an Al-Bi-Zn alloy subjected to ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 703, 304-313	5.3	12
86	Isothermal annealing of cold-rolled AlMnBeSi alloy with different microchemistry states. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3840-3847	3.3	12
85	Substructure Strengthening in Aluminium Alloys. <i>Materials Science Forum</i> , 2000 , 331-337, 1387-1392	0.4	12
84	Comparative analysis of the size distributions of linear, planar, and spatial Poisson Voronoi cells. <i>Materials Characterization</i> , 1996 , 36, 53-63	3.9	12
83	The effect of heavy deformation on the precipitation in an Al-1.3Cu-1.0Mg-0.4Si wt.% alloy. <i>Materials and Design</i> , 2020 , 186, 108203	8.1	12
82	Precipitation, strength and work hardening of age hardened aluminium alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 89, 012013	0.4	10
81	Experimental and theoretical study of electron density and structure factors in CoSb \square <i>Ultramicroscopy</i> , 2011 , 111, 847-53	3.1	10
80	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> , 2003 , 34, 2705-2715	2.3	10
79	Through-process sensitivity analysis on the effect of process variables on strength in extruded AlMgBi alloys. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 171-180	5.3	9

78	Effect of quenching rate on microstructure and mechanical properties of commercial AA7108 aluminium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1872-1877	3.3	9
77	Grain size correlation during normal grain growth in one dimension. <i>Scripta Materialia</i> , 2006 , 55, 939-942	5.6	9
76	Determination of crystal symmetry from electron channelling patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1988 , 44, 693-700		9
75	Correlating oriented grain number density of recrystallisation in particle-containing aluminium alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 220-225	3.3	8
74	Microstructural Evolution during Isothermal Annealing of a Cold-Rolled Al-Mn-Fe-Si Alloy with Different Microchemistry States. <i>Materials Science Forum</i> , 2014 , 794-796, 1163-1168	0.4	8
73	Evolution in microstructure and mechanical properties during back-annealing of AlMnFeSi alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1878-1883	3.3	8
72	Work-hardening behaviour of a heat-treatable AA7108 aluminium alloy deformed to intermediate strains by compression. <i>Journal of Materials Science</i> , 2010 , 45, 5323-5331	4.3	8
71	Use of quantitative convergent-beam electron diffraction in materials science. <i>Microscopy Research and Technique</i> , 1999 , 46, 130-45	2.8	8
70	The effect of iron and the precipitation behavior of iron during annealing of a cold deformed commercial purity aluminium alloy. <i>Materials Characterization</i> , 2017 , 129, 18-23	3.9	7
69	Modelling Microstructure and Properties during Annealing of Cold-Rolled Al-Mn-Fe-Si-Alloys with Different Microchemistries. <i>Materials Science Forum</i> , 2014 , 783-786, 57-62	0.4	7
68	Interface energy determination for the fully coherent β 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> , 2013 , 21, 085018	2	7
67	Modelling the Evolution in Microchemistry and its Effects on the Softening Behavior of Cold Rolled AlFeMnSi-Alloys during Annealing. <i>Materials Science Forum</i> , 2013 , 753, 143-146	0.4	7
66	Non-centrosymmetry Effects and Polarity Determination in III-V Semiconductors. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1997 , 53, 366-375		7
65	Effect of Changing Homogenization Treatment on the Particle Structure in Mn-Containing Aluminium Alloys. <i>Materials Science Forum</i> , 2007 , 558-559, 301-306	0.4	7
64	Determination of structure-factor phase invariants and effective structure factors in non-centrosymmetric crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1988 , 44, 558-562		7
63	Isothermal and Non-Isothermal Annealing of Cold-Rolled Al-Mn-Fe-Si Alloys with Different Microchemistry States. <i>Materials Science Forum</i> , 2014 , 783-786, 174-179	0.4	6
62	Anisotropy of Bending Properties in Industrial Heat-Treatable Extruded Aluminium Alloys. <i>Materials Science Forum</i> , 2010 , 638-642, 487-492	0.4	6
61	Texture Evolution of an AA3xxx Alloy after Different Homogenisation Treatments. <i>Materials Science Forum</i> , 2002 , 396-402, 463-468	0.4	6

60	Industrial Verification of Microstructural Models for Thermomechanical Processing by Application to Hot Rolling of AA3104. <i>Materials Science Forum</i> , 2000 , 331-337, 551-556	0.4	6
59	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> , 2020 , 51, 5378-5388	2.3	6
58	Hardening of Al-Mg-Si Alloys and Effect of Particle Structure. <i>Materials Science Forum</i> , 2012 , 706-709, 283-288	0.4	5
57	Electron energy loss spectroscopy of the L _{2,3} edge of phosphorus skutterudites and electronic structure calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	5
56	Coupled FEM and Microstructure Modeling Applied to Rolling and Extrusion of Aluminium Alloys. <i>Materials Science Forum</i> , 2003 , 426-432, 3777-3782	0.4	5
55	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> , 1998 , 57, 1585-1593	3.3	5
54	The embedded-atom model applied to vacancy formation in bulk aluminium and lithium. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 3663-3677	1.8	5
53	Commercial spectrometer modifications for energy filtering of electron diffraction patterns and images. <i>Ultramicroscopy</i> , 1993 , 52, 454-458	3.1	5
52	On the sign ambiguity of triplet phases in nonsystematic many-beam effects in CBED patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1993 , 49, 324-330		5
51	Numerical Modeling of Oxy-Fuel and Air-fuel Burners for Aluminium Melting 1037-1042		5
50	Characterization the Softening Behavior of Cold Rolled AlMnFeSi-Alloys during Conditions of Concurrent Precipitation. <i>Materials Science Forum</i> , 2013 , 753, 231-234	0.4	4
49	The Effect of Deformation on the Work Hardening Behaviour after Aging of Two Commercial Al-Mg-Si Alloys. <i>Materials Science Forum</i> , 2010 , 638-642, 261-266	0.4	4
48	Effect of alloying elements on stage-III work-hardening behaviour of Al ₇₅ Zn ₁₅ Mg ₁₀ (Cu) alloys. <i>International Journal of Materials Research</i> , 2012 , 103, 603-608	0.5	4
47	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> , 1996 , 4, 87-100	2	4
46	Transformation kinetics and microstructure for grain boundary nucleated recrystallization in two dimensions. <i>Acta Materialia</i> , 1997 , 45, 1127-1136	8.4	4
45	The Influence of Processing Conditions on Microchemistry and the Softening Behavior of Cold Rolled Al-Mn-Fe-Si Alloys. <i>Metals</i> , 2016 , 6, 61	2.3	4
44	Revealing abnormal {112̄} twins in commercial purity Ti subjected to split Hopkinson pressure bar. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 513-523	5.7	4
43	Characterization of the Density and Spatial Distribution of Dispersoids in Al-Mg-Si Alloys. <i>Metals</i> , 2019 , 9, 26	2.3	3

42	Modelling the Recrystallization Behaviour during Industrial Processing of Aluminium Alloys. <i>Materials Science Forum</i> , 2012 , 715-716, 543-548	0.4	3
41	Recrystallisation Resistance of Extruded and Cold Rolled Aluminium Alloys with Additions of Hf, Sc and Zr. <i>Materials Science Forum</i> , 2006 , 519-521, 525-530	0.4	3
40	The Effect of Sc on the Extrudability and Recrystallisation Resistance of Al-Mn-Zr-Alloys. <i>Materials Science Forum</i> , 2004 , 467-470, 369-374	0.4	3
39	Modelling the Work Hardening in Cold Rolled and Annealed Aluminium Sheet. <i>Materials Science Forum</i> , 2000 , 331-337, 557-564	0.4	3
38	Analytical filtering of low-angle inelastic scattering contributions to CBED contrast. <i>Ultramicroscopy</i> , 1994 , 55, 268-275	3.1	3
37	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> , 2015 , 82, 012035	0.4	2
36	Twinnability of AlMg alloys: A first-principles interpretation. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 1313-1318	3.3	2
35	Modelling Time-Dependent Nucleation of Recrystallization in Aluminium Alloys. <i>Materials Science Forum</i> , 2013 , 753, 147-152	0.4	2
34	Work- and Age-Hardening Behaviour of a Commercial AA7108 Aluminium Alloy. <i>Materials Science Forum</i> , 2009 , 618-619, 555-558	0.4	2
33	Mobility Driven Abnormal Grain Growth in the Presence of Particles. <i>Materials Science Forum</i> , 2012 , 715-716, 930-935	0.4	2
32	Modelling the Softening Behaviour of Commercial AlMn-Alloys. <i>Materials Science Forum</i> , 2004 , 467-470, 677-682	0.4	2
31	Improved tight-binding parametrization for the simulation of stacking faults in aluminum. <i>Physical Review B</i> , 2003 , 68,	3.3	2
30	Modelling the Evolution of Microstructure and Properties during Deformation of Aluminium. <i>Materials Science Forum</i> , 2002 , 396-402, 315-326	0.4	2
29	The ALFLOW-Model - A Microstructural Approach to Constitutive Plasticity-Modelling of Aluminium Alloys. <i>Materials Science Forum</i> , 2000 , 331-337, 1231-1242	0.4	2
28	Many-parameter refinements from CBED pattern. <i>Micron and Microscopica Acta</i> , 1992 , 23, 137-138		2
27	Orientation Independent and Dependent Subgrain Growth During Iso-Thermal Annealing of High-Purity and Commercial Purity Aluminium. <i>Metals</i> , 2019 , 9, 1032	2.3	2
26	Recovery Kinetics in High Purity and Commercial Purity Aluminium Alloys. <i>Materials Science Forum</i> , 2013 , 753, 235-238	0.4	1
25	Matrix Coherency Strain and Hardening of Al-Mg-Si. <i>Materials Science Forum</i> , 2010 , 638-642, 229-234	0.4	1

24	3D Crystal Plasticity Modelling of Complex Microstructures in Extruded Products 2011 ,		1
23	Combined Effect of Deformation and Precipitation on Tensile Properties of an Al-Mg-Si Alloy. <i>Materials Science Forum</i> , 2012 , 706-709, 351-356	0.4	1
22	Effect of simultaneous deformation and artificial ageing on the mechanical properties of an AlMgSi alloy. <i>International Journal of Materials Research</i> , 2012 , 103, 962-971	0.5	1
21	Solute and Second Phase Evolution during Industrial Processing of AA3103. <i>Materials Science Forum</i> , 2007 , 539-543, 281-286	0.4	1
20	Computer Simulations of Kinetics and Texture of Recrystallisation by a 3-D Potts Monte Carlo Model. <i>Materials Science Forum</i> , 2007 , 558-559, 1069-1074	0.4	1
19	Development of Aluminium Alloys with Ultimate Recrystallisation Resistance. <i>Materials Science Forum</i> , 2007 , 539-543, 167-172	0.4	1
18	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> , 1999 , 55, 188-196		1
17	Determination of symmetry elements from selected area channeling patterns. <i>Ultramicroscopy</i> , 1985 , 17, 178	3.1	1
16	Evolution in Microchemistry and Its Effect on Deformation and Annealing Behavior of an AlMnFeSi-Alloy1837-1842		
15	Modelling the Work Hardening Behaviour of AlMgMn Alloys. <i>Materials Science Forum</i> , 2010 , 638-642, 285-290	0.4	0
14	Dynamic strain ageing in an AlMg alloy at different strain rates and temperatures: Experiments and constitutive modelling. <i>International Journal of Plasticity</i> , 2022 , 151, 103215	7.6	0
13	The Influence of Microchemistry and Processing Conditions on the Softening Behavior of Cold-Rolled Al-Mn-Fe-Si Alloys 2015 , 153-162		
12	Recrystallization behaviour of AA6063 extrusions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 89, 012057	0.4	
11	Hardening of Al-Mg-Si Alloys and Effective Particle Size in Microstructural Models. <i>Materials Science Forum</i> , 2014 , 783-786, 252-257	0.4	
10	On the Recrystallization Kinetics of 3D Potts Monte Carlo Simulations. <i>Materials Science Forum</i> , 2012 , 715-716, 959-964	0.4	
9	Deformation and Recrystallization Behaviour of a Homogenised and a Heterogenised Al-Mg-Si Alloy. <i>Materials Science Forum</i> , 2006 , 519-521, 1611-1616	0.4	
8	On the Validation of the Monte Carlo Technique in Simulation of Grain Growth in Small, Two-Dimensional Systems. <i>Materials Science Forum</i> , 2007 , 558-559, 1087-1092	0.4	
7	Multiple plasmon scattering contributions to CBED contrast. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1995 , 53, 132-133		

- 6 The Influence of Microchemistry and Processing Conditions on the Softening Behavior of Cold-Rolled Al-Mn-Fe-Si Alloys **2015**, 157-162
- 5 Evolution in Microchemistry and its Effects on Deformation and Annealing Behavior of an AlMnFeSi Alloy **2012**, 1837-1842
- 4 Orientation Dependent Subgrain Growth During Isothermal Annealing of High-Purity Aluminum **2012**, 1713-1718
- 3 Modeling of Work-Hardening in an Age-Hardenable AA7108 Aluminum Alloy **2012**, 1785-1790
- 2 Numerical Modeling of Oxy-Fuel and Air-Fuel Burners for Aluminium Melting **2012**, 1037-1042
- 1 Modeling of Work-Hardening in an Age-hardenable AA7108 Aluminum Alloy **2012**, 1785-1790