

B Holmedal

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6517457/b-holmedal-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

82

papers

1,599

citations

21

h-index

38

g-index

82

ext. papers

1,810

ext. citations

3.4

avg, IF

5.02

L-index

#	Paper	IF	Citations
82	Strengthening mechanisms in solid solution aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 1999-2006	2.3	281
81	Diffusion of a chemically reactive species from a stretching sheet. <i>International Journal of Heat and Mass Transfer</i> , 1994 , 37, 659-664	4.9	146
80	Multi-level modelling of mechanical anisotropy of commercial pure aluminium plate: Crystal plasticity models, advanced yield functions and parameter identification. <i>International Journal of Plasticity</i> , 2015 , 66, 3-30	7.6	99
79	Evaluation of identification methods for YLD2004-18p. <i>International Journal of Plasticity</i> , 2008 , 24, 2248-2277	7.7	58
78	Strain-path change induced transients in flow stress, work hardening and r-values in aluminum. <i>International Journal of Plasticity</i> , 2015 , 69, 1-20	7.6	56
77	A crystal plasticity model for strain-path changes in metals. <i>International Journal of Plasticity</i> , 2008 , 24, 1360-1379	7.6	49
76	Modeling over-ageing in Al-Mg-Si alloys by a multi-phase CALPHAD-coupled Kampmann-Wagner Numerical model. <i>Acta Materialia</i> , 2017 , 122, 178-186	8.4	48
75	Warm forming simulation of AlMg sheet. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 5636-5645	5.5	40
74	Layer continuity in accumulative roll bonding of dissimilar material combinations. <i>Materials & Design</i> , 2013 , 52, 905-915		37
73	A combined isotropic, kinematic and distortional hardening model for aluminum and steels under complex strain-path changes. <i>International Journal of Plasticity</i> , 2018 , 101, 156-169	7.6	35
72	Modelling grain boundary strengthening in ultra-fine grained aluminum alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 178-182	5.3	35
71	Precipitation of Non-spherical Particles in Aluminum Alloys Part II: Numerical Simulation and Experimental Characterization During Aging Treatment of an Al-Mg-Si Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 589-599	2.3	33
70	Influence of dispersoids on microstructure evolution and work hardening of aluminium alloys during tension and cold rolling. <i>Philosophical Magazine</i> , 2013 , 93, 2995-3011	1.6	31
69	Precipitation of Non-Spherical Particles in Aluminum Alloys Part I: Generalization of the Kampmann-Wagner Numerical Model. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 581-588	2.3	27
68	Review of the Taylor ambiguity and the relationship between rate-independent and rate-dependent full-constraints Taylor models. <i>International Journal of Plasticity</i> , 2014 , 55, 152-181	7.6	27
67	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
66	Sub-structure strengthening and work hardening of an ultra-fine grained aluminium-magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 483-484, 51-53	5.3	26

65	Modeling strain-path changes in aluminum and steel. <i>International Journal of Solids and Structures</i> , 2017 , 117, 123-136	3.1	25
64	A physically-based constitutive model applied to AA6082 aluminium alloy at large strains, high strain rates and elevated temperatures. <i>Materials and Design</i> , 2016 , 103, 391-405	8.1	25
63	Through thickness variations of deformation texture in round profile extrusions of 6063-type aluminium alloy: Experiments, FEM and crystal plasticity modelling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 722, 20-29	5.3	24
62	Modelling the plastic anisotropy of aluminum alloy 3103 sheets by polycrystal plasticity. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 075015	2	24
61	The effect of silicon on the strengthening and work hardening of aluminum at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 563, 147-151	5.3	21
60	Modelling work hardening of aluminium alloys containing dispersoids. <i>Philosophical Magazine</i> , 2013 , 93, 3142-3153	1.6	21
59	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
58	Experimental characterization and modeling of aluminum alloy AA3103 for complex single and double strain-path changes. <i>International Journal of Plasticity</i> , 2019 , 112, 158-171	7.6	21
57	Assessment of advanced Taylor models, the Taylor factor and yield-surface exponent for FCC metals. <i>International Journal of Plasticity</i> , 2019 , 114, 144-160	7.6	21
56	A robust and efficient substepping scheme for the explicit numerical integration of a rate-dependent crystal plasticity model. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 99, 239-262	2.4	19
55	Large strain work hardening of aluminum alloys and the effect of mg in solid solution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 2007-2013	2.3	19
54	Work Hardening Behaviour of Heat-Treatable Al-Mg-Si-Alloys. <i>Materials Science Forum</i> , 2006 , 519-521, 1901-1906	0.4	17
53	The effect of boundary spacing on substructure strengthening. <i>Materials Science and Technology</i> , 2004 , 20, 1377-1382	1.5	17
52	Nano-scale characterisation of sheared η precipitates in a deformed Al-Mg-Si alloy. <i>Scientific Reports</i> , 2019 , 9, 17446	4.9	17
51	Comparison of the influence of Si and Fe in 99.999% purity aluminum and in commercial-purity aluminum. <i>Scripta Materialia</i> , 2012 , 67, 217-220	5.6	16
50	Additional relaxations in the Alamel texture model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 349-354	5.3	16
49	Multi-component solid solution and cluster hardening of AlMnSi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 153-157	5.3	14
48	Tensile bond strength of cold roll bonded aluminium sheets. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 955-960	5.3	14

47	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
46	Bauschinger effect modelled by yield surface distortions. <i>International Journal of Plasticity</i> , 2019 , 123, 86-100	7.6	13
45	On the formulation of the mechanical threshold stress model. <i>Acta Materialia</i> , 2007 , 55, 2739-2746	8.4	13
44	Strength contributions from precipitates. <i>Philosophical Magazine Letters</i> , 2015 , 95, 594-601	1	11
43	MAGNETOHYDRODYNAMIC MELTING FLOW FROM A HORIZONTAL ROTATING DISK. <i>Mathematical Models and Methods in Applied Sciences</i> , 1993 , 03, 373-393	3.5	11
42	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
41	Characterizing Hardening on Annealing of Cold-Rolled Aluminum AA3103 Strips. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 1597-1608	2.3	9
40	Influence of dispersoids on grain subdivision and texture evolution in aluminium alloys during cold rolling. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 2072-2078	3.3	8
39	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
38	Planform selection in Rayleigh-Bénard convection between finite slabs. <i>Journal of Fluid Mechanics</i> , 2005 , 537, 255	3.7	8
37	Precipitation and strengthening modeling for disk-shaped particles in aluminum alloys: Size distribution considered. <i>Materialia</i> , 2018 , 4, 431-443	3.2	8
36	Modelling and experimental validation of microstructure evolution during the cooling stage of homogenization heat treatment of AlMgBi alloys. <i>Materialia</i> , 2018 , 4, 70-80	3.2	7
35	Anisotropy of Bending Properties in Industrial Heat-Treatable Extruded Aluminium Alloys. <i>Materials Science Forum</i> , 2010 , 638-642, 487-492	0.4	6
34	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
33	Influence of thermomechanical processing sequence on properties of AA6082-IF steel cold roll bonded composite sheet. <i>Procedia Manufacturing</i> , 2018 , 15, 152-160	1.5	5
32	On the basic relation between mean free slip length and work hardening of metals. <i>Philosophical Magazine</i> , 2015 , 95, 2817-2830	1.6	4
31	Relationship between Al-Ni intermetallic Phases and Bond Strength in Roll Bonded Steel-Aluminum Composites with Nickel Interlayers. <i>Metals</i> , 2019 , 9, 827	2.3	4
30	An explicit integration scheme for hypo-elastic viscoplastic crystal plasticity. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 2401-2407	3.3	4

29	Effect of alloying elements on stage-III work-hardening behaviour of Al ₇₅ Mg ₂₅ (Cu) alloys. <i>International Journal of Materials Research</i> , 2012 , 103, 603-608	0.5	4
28	Stability of squares and rolls in Rayleigh-Bénard convection in an infinite-Prandtl-number fluid between slabs. <i>Journal of Fluid Mechanics</i> , 2005 , 537, 271	3.7	4
27	Characterisation and Modelling of Work Hardening in Al-Mg and Al-Mn Alloys. <i>Materials Science Forum</i> , 2002 , 396-402, 1145-1150	0.4	4
26	Spin and vorticity with vanishing rigid-body rotation during shear in continuum mechanics. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 137, 103835	5	4
25	Regularized Yield Surfaces for Crystal Plasticity of Metals. <i>Crystals</i> , 2020 , 10, 1076	2.3	4
24	Influence of Stacking Sequence and Intermediate Layer Thickness in AA6082-IF Steel Tri-Layered Cold Roll Bonded Composite Sheets. <i>Key Engineering Materials</i> , 2018 , 767, 316-322	0.4	3
23	Modelling the Recrystallization Behaviour during Industrial Processing of Aluminium Alloys. <i>Materials Science Forum</i> , 2012 , 715-716, 543-548	0.4	3
22	COMPUTATION OF THE INLET WALL JET IN A RECTANGULAR ENCLOSURE. <i>International Journal of Computational Fluid Dynamics</i> , 1993 , 1, 217-232	1.2	3
21	On the criterion for compensation to avoid elastic-plastic transients during strain rate change tests. <i>Acta Materialia</i> , 2013 , 61, 653-659	8.4	2
20	A new tribological system test for integrated hot forming and die quenching of aluminium alloy sheets 2017 ,		2
19	Coupled FEM and Alamel-type Polycrystal Plasticity Modelling Applied to Extrusion of Aluminium Alloys. <i>Materials Today: Proceedings</i> , 2015 , 2, 4898-4903	1.4	2
18	Work- and Age-Hardening Behaviour of a Commercial AA7108 Aluminium Alloy. <i>Materials Science Forum</i> , 2009 , 618-619, 555-558	0.4	2
17	Modelling the Evolution of Microstructure and Properties during Deformation of Aluminium. <i>Materials Science Forum</i> , 2002 , 396-402, 315-326	0.4	2
16	Use of Plane-Strain Tension and Shear Tests to Evaluate Yield Surfaces for AA1050 Aluminium Sheet. <i>Materials Science Forum</i> , 2014 , 794-796, 596-601	0.4	1
15	3D Crystal Plasticity Modelling of Complex Microstructures in Extruded Products 2011 ,		1
14	Characterization and Modelling of the Microstructure and Texture Evolution in AlMgSi-Extrusions. <i>Materials Science Forum</i> , 2016 , 879, 1239-1244	0.4	1
13	Modelling of Strain-Path Transients in Commercially Pure Aluminium. <i>Materials Science Forum</i> , 2016 , 877, 662-667	0.4	1
12	The Effect of Elastic Strain and Small Plastic Deformation on Tensile Strength of a Lean AlMgSi Alloy. <i>Metals</i> , 2019 , 9, 1276	2.3	1

11	Modelling the Work Hardening Behaviour of AlMgMn Alloys. <i>Materials Science Forum</i> , 2010 , 638-642, 285-290	0.4	○
10	A robust algorithm for rate-independent crystal plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114831	5.7	○
9	Stability of rolls in finite-amplitude Rayleigh-Bénard convection in a high-Prandtl-number fluid between a perfectly conducting boundary and a slab of finite thickness and finite conductivity. <i>European Journal of Mechanics, B/Fluids</i> , 2012 , 34, 115-120	2.4	
8	Recrystallization behaviour of AA6063 extrusions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 89, 012057	0.4	
7	Permanent effect of a cryogenic spill on fracture properties of structural steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 102, 012004	0.4	
6	The Effect of Boundary Structure on the Mechanical Properties of Aluminium Alloys. <i>Materials Science Forum</i> , 2006 , 519-521, 63-70	0.4	
5	Crystal Plasticity Calculations of Mechanical Anisotropy of Aluminium Compared to Experiments and to Yield Criterion Fittings 2012 , 915-920		
4	Modeling of Work-Hardening in an Age-Hardenable AA7108 Aluminum Alloy 2012 , 1785-1790		
3	Effect of Si Addition on Solid Solution Hardening of Al-Mn Alloys 2012 , 1825-1829		
2	Modeling of Transients as a Response to Changes in Strain path of Commercially Pure Aluminium 2012 , 849-854		
1	Threshold Deformation for Exhibiting the Hardening on Annealing Behaviour in AA3103 Alloy 2012 , 1873-1878		