

# Olaf Engler

## List of Publications by Citations

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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.

108  
papers

2,441  
citations

25  
h-index

46  
g-index

112  
ext. papers

2,683  
ext. citations

2.4  
avg, IF

5.3  
L-index

#	Paper	IF	Citations
108	Texture control by thermomechanical processing of AA6xxx AlMgSi sheet alloys for automotive applications – review. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 336, 249-262	5.3	285
107	Introduction to Texture Analysis		266
106	Introduction to Texture Analysis		143
105	Alloy-dependent rolling texture simulation of aluminium alloys with a grain-interaction model. <i>Acta Materialia</i> , <b>2005</b> , 53, 2241-2257	8.4	106
104	Evolution of the cube texture in high purity aluminum capacitor foils by continuous recrystallization and subsequent grain growth. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 271, 371-381	5.3	74
103	Control of second-phase particles in the Al-Mg-Mn alloy AA 5083. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 689, 998-1010	5.7	73
102	On the origin of the R orientation in the recrystallization textures of aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1999</b> , 30, 1517-1527	2.3	71
101	Through-process simulation of texture and properties during the thermomechanical processing of aluminium sheets. <i>Acta Materialia</i> , <b>2007</b> , 55, 5449-5463	8.4	58
100	An EBSD local texture study on the nucleation of recrystallization at shear bands in the alloy Al-3%Mg. <i>Scripta Materialia</i> , <b>2001</b> , 44, 229-236	5.6	58
99	Impact of homogenization on particles in the AlMgMn alloy AA 5454 [Experiment and simulation. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 560, 111-122	5.7	51
98	Simulation of earing profiles from texture data by means of a visco-plastic self-consistent polycrystal plasticity approach. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 373, 350-362	5.3	48
97	Effect of Through-Thickness Macro and Micro-Texture Gradients on Ridging of 17%Cr Ferritic Stainless Steel Sheet. <i>Steel Research International</i> , <b>2005</b> , 76, 797-806	1.6	48
96	Effect of natural ageing and pre-straining on strength and anisotropy in aluminium alloy AA 6016. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 65-74	5.3	45
95	Polycrystal-plasticity simulation of six and eight ears in deep-drawn aluminum cups. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 452-453, 640-651	5.3	45
94	Control of texture and earing in aluminium alloy AA 3105 sheet for packaging applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 538, 69-80	5.3	43
93	Development of intermetallic particles during solidification and homogenization of two AA 5xxx series Al-Mg alloys with different Mg contents. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 669-681	5.7	43
92	Impact of homogenization on microchemistry and recrystallization of the AlBeMn alloy AA 8006. <i>Materials Characterization</i> , <b>2013</b> , 79, 60-75	3.9	42

91	Crystal-plasticity simulation of the correlation of microtexture and roping in AA 6xxx AlMgSi sheet alloys for automotive applications. <i>Acta Materialia</i> , <b>2012</b> , 60, 5217-5232	8.4	38
90	Texture and anisotropy in the AlMg alloy AA 5005 [Part II: Correlation of texture and anisotropic properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 618, 663-671	5.3	37
89	Flexible rolling of aluminium alloy sheet Process optimization and control of materials properties. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 229, 139-148	5.3	35
88	Crystal-plasticity analysis of ridging in ferritic stainless steel sheets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 3127-3139	2.3	35
87	Recrystallization Textures and Plastic Anisotropy in Al-Mg-Si Sheet Alloys. <i>Materials Science Forum</i> , <b>1996</b> , 217-222, 479-486	0.4	31
86	Effect of primary recrystallization texture on abnormal grain growth in an aluminum alloy. <i>Scripta Materialia</i> , <b>2007</b> , 57, 325-327	5.6	30
85	Plastic anisotropy and texture evolution during tensile testing of extruded aluminium profiles. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2005</b> , 13, 783-795	2	27
84	Characterization of second-phase particles in two aluminium foil alloys. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 660, 276-288	5.7	25
83	A new approach in texture research: local orientation determination with EBSP. <i>Steel Research = Archiv Für Das Eisenhüttenwesen</i> , <b>1992</b> , 63, 413-418		25
82	On the Correlation of Texture and Ridging in AA6016 Automotive Alloys. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 345-350	0.4	23
81	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
80	On the Influence of Dispersoids on the Particle Stimulated Nucleation of Recrystallization in an Al-Fe-Si Model Alloy. <i>Materials Science Forum</i> , <b>1998</b> , 273-275, 483-488	0.4	23
79	Texture-based design of a convoluted cut-edge for earing-free beverage cans. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1278-1284	5.3	22
78	Influence of copper additions on materials properties and corrosion behaviour of AlMg alloy sheet. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 710, 650-662	5.7	21
77	Control of recrystallisation texture and texture-related properties in industrial production of aluminium sheet. <i>International Journal of Materials Research</i> , <b>2009</b> , 100, 564-575	0.5	20
76	Effect of Texture Components on the Lankford Parameters in Ferritic Stainless Steel Sheets. <i>ISIJ International</i> , <b>2012</b> , 52, 522-529	1.7	19
75	Texture and anisotropy in the AlMg alloy AA 5005 [Part I: Texture evolution during rolling and recrystallization. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 618, 654-662	5.3	18
74	Modelling of ductile failure in aluminium sheet forming simulation. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 163-182	2	18

73	Recrystallization Modeling of AA8XXX Alloys with Cellular Automata Considering Recovering Kinetics. <i>Advanced Engineering Materials</i> , <b>2010</b> , 12, 131-140	3.5	17
72	Evolution of through-thickness texture gradients in various steel sheets. <i>Metals and Materials International</i> , <b>1999</b> , 5, 437-443		17
71	Bendability enhancement of an age-hardenable aluminum alloy: Part I Relationship between microstructure, plastic deformation and fracture. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 753, 179-191	5.3	16
70	Analysis of Earing in Deep Drawn Cups <b>2010</b> ,		16
69	Orientation relationship between Al <sub>6</sub> Mn precipitates and the Al matrix during continuous recrystallization in Al-0.3%Mn. <i>Journal of Applied Crystallography</i> , <b>1999</b> , 32, 1105-1118	3.8	16
68	Statistics, Evaluation and Representation of Single Grain Orientation Measurements. <i>Materials Science Forum</i> , <b>1994</b> , 157-162, 259-274	0.4	16
67	Thermodynamics based modelling of the precipitation kinetics in commercial aluminium alloys. <i>Computational Materials Science</i> , <b>2014</b> , 81, 410-417	3.2	15
66	Bendability enhancement of an age-hardenable aluminum alloy: Part II Multiscale numerical modeling of shear banding and fracture. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 754, 161-177	5.3	14
65	Evaluation of constitutive models for textured aluminium alloys using plane-strain tension and shear tests. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 227-241	2	14
64	Evolution of strain states and textures during roll-cladding in STS/Al/STS sheets. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 5371-5374	4.3	14
63	Influence of solution treatment on the microstructure and crystallographic texture of cold rolled and recrystallised low carbon steel. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , <b>1995</b> , 66, 353-359		14
62	Effect of strain paths on development of shear textures during rolling in aluminum sheets. <i>Metals and Materials International</i> , <b>2010</b> , 16, 851-856	2.4	13
61	Texture and anisotropy in cold rolled and recovery annealed AA 5182 sheets. <i>Materials Science and Technology</i> , <b>2015</b> , 31, 1058-1065	1.5	12
60	Impact of chromium on the microchemistry evolution during solidification and homogenization of the Al-Mg alloy AA 5052. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 744, 561-573	5.7	12
59	Correlation of Texture and Plastic Anisotropy in the Al-Mg Alloy AA 5005. <i>Solid State Phenomena</i> , <b>2005</b> , 105, 277-284	0.4	12
58	Evolution of Texture and Microstructure in AA3004 Sheets during Continuous Confined Strip Shearing Deformation and Subsequent Annealing. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 475-480	0.4	12
57	Quantitative Analysis of Micro-Textures during Recrystallization in an Interstitial-Free Steel. <i>Steel Research International</i> , <b>2012</b> , 83, 919-926	1.6	11
56	Through-process modelling of the impact of intermediate annealing on texture evolution in aluminium alloy AA 5182. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2003</b> , 11, 863-882		11

55	Investigation of the Nucleation of Recrystallization in an Al-Cu Single Crystal by Means of EBSP. <i>Materials Science Forum</i> , <b>1993</b> , 113-115, 127-132	0.4	11
54	Rolling Texture Development in Cu-Mn-Alloys. <i>Materials Science Forum</i> , <b>1994</b> , 157-162, 679-684	0.4	11
53	Effect of deformation routes on the evolution of strain states and texture during asymmetrical cold rolling and subsequent annealing in interstitial-free steel. <i>International Journal of Materials Research</i> , <b>2010</b> , 101, 1029-1036	0.5	10
52	Modelling of Recrystallisation Kinetics and Texture during the Thermo-Mechanical Processing of Aluminium Sheets. <i>Materials Science Forum</i> , <b>2005</b> , 495-497, 555-566	0.4	10
51	Influence of a solution treatment on the evolution of through-thickness texture gradients in dry cold rolled and recrystallized low carbon steel. <i>Steel Research = Archiv Für Das Eisenhüttenwesen</i> , <b>2000</b> , 71, 239-248		10
50	The Effect of Precipitates on Texture Development. <i>Materials Science Forum</i> , <b>1994</b> , 157-162, 1501-1506	0.4	10
49	Modeling of Texture and Texture-Related Properties during the Thermo-Mechanical Processing of Aluminum Sheets. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 3655-3660	0.4	9
48	Formation of Recrystallization Textures and Plastic Anisotropy in Al-Mg-Si Alloys. <i>Materials Science Forum</i> , <b>1994</b> , 157-162, 939-944	0.4	9
47	A simple ductile failure model with application to AA5182 aluminium sheet forming. <i>International Journal of Material Forming</i> , <b>2014</b> , 7, 289-304	2	8
46	Effect of strain rate and dynamic strain ageing on work-hardening for aluminium alloy AA5182-O. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 1035-1041	0.5	7
45	Rolling and Annealing Texture in Twin Roll Cast Commercial Purity Aluminium. <i>Materials Science Forum</i> , <b>1994</b> , 157-162, 913-918	0.4	7
44	Effect of r-value and texture on plastic deformation and necking behavior in interstitial-free steel sheets. <i>Metals and Materials International</i> , <b>2017</b> , 23, 26-34	2.4	6
43	Control of texture and earing in aluminium alloy AA 8011A-H14 closure stock. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 775, 138965	5.3	6
42	Modelling of Microstructure and Texture and the Resulting Properties during the Thermo-Mechanical Processing of Aluminium Sheets. <i>Materials Science Forum</i> , <b>2006</b> , 519-521, 1563-1568	0.4	6
41	Simulation of Rolling and Recrystallization Textures in Aluminium Alloy Sheets. <i>Materials Science Forum</i> , <b>2007</b> , 550, 23-34	0.4	6
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	A modified processing route for high strength Al-Mg-Si aluminum conductors based on twin-roll cast strip. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 278, 116463	5.3	6
38	Taylor-Type Homogenization Methods for Texture and Anisotropy <b>2005</b> , 459-472		5

37	Formation of Shear Texture and Ultra-fine Grains in Warm Rolled AA 3004 Sheets. <i>Materials Science Forum</i> , <b>2002</b> , 408-412, 1453-1458	0.4	5
36	Effect of Strain Paths on the Evolution of Texture and Work Hardening in AA 5052 Sheets during Continuous Confined Strip Shearing Deformation. <i>Materials Science Forum</i> , <b>2002</b> , 408-412, 1495-1500	0.4	5
35	Influence of the Rolling Temperature on the Texture Gradient in an Al-Mg-Si Alloy. <i>Materials Science Forum</i> , <b>1994</b> , 157-162, 673-678	0.4	5
34	Modelling the Combined Effect of Room Temperature Storage and Cold Deformation on the Age-Hardening Behaviour of Al-Mg-Si Alloys-Part 1. <i>Materials Science Forum</i> , <b>2014</b> , 794-796, 670-675	0.4	4
33	Simulation-Based Design of 5xxx Series Alloys with Improved Resistivity against Intergranular Corrosion for Automotive Applications. <i>Materials Science Forum</i> , <b>2014</b> , 794-796, 622-627	0.4	4
32	Temper rolling to control texture and earing in aluminium alloy AA 5050A. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 288, 116910	5.3	4
31	A Combined TEM and Atom Probe Approach to Analyse the Early Stages of Age Hardening in AA 6016. <i>Materials Science Forum</i> , <b>2016</b> , 877, 231-236	0.4	3
30	Modelling the Combined Effect of Room Temperature Storage and Cold Deformation on the Age-Hardening Behaviour of Al-Mg-Si Alloys-Part 2. <i>Materials Science Forum</i> , <b>2014</b> , 794-796, 722-727	0.4	3
29	Effect of texture on grain growth in an interstitial-free steel sheet. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 1423-1433	0.5	3
28	Property Control in Production of Aluminum Sheet by Use of Simulation <b>2005</b> , 705-725		3
27	Evolution of Texture and Microstructure during Repeated Shear Deformation in Aluminum 1100 Alloy Sheets. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 447-452	0.4	3
26	Behaviour of Statistical Texture Parameters Applied to Single Grain Orientation Measurements in Recrystallized Al-Mn. <i>Materials Science Forum</i> , <b>1994</b> , 157-162, 933-938	0.4	3
25	Microstructure and texture of aluminium alloys for autobody applications. <i>Materiaux Et Techniques</i> , <b>2002</b> , 90, 71-78	0.6	3
24	Accuracy analysis of earing compensation procedures. <i>International Journal of Solids and Structures</i> , <b>2020</b> , 191-192, 418-433	3.1	3
23	A virtual materials testing approach to calibrate anisotropic yield functions for the simulation of earing during deep drawing of aluminium alloy sheet. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 818, 141389	5.3	3
22	Statistical Model of Precipitation Kinetics for Recycled Commercial Aluminum Alloys <b>449-456</b>		3
21	Accuracy assessment of analytical earing models. <i>European Journal of Mechanics, A/Solids</i> , <b>2019</b> , 78, 103839	3.9	2
20	Crystal-Plasticity Simulation of the Evolution of the Matt Surface in Pack Rolling of Aluminium Foil. <i>Materials Science Forum</i> , <b>2014</b> , 794-796, 553-558	0.4	2



19	Modelling Time-Dependent Nucleation of Recrystallization in Aluminium Alloys. <i>Materials Science Forum</i> , <b>2013</b> , 753, 147-152	0.4	2
18	The Influence of Homogenisation Heat Treatment on Microstructure Development in Al-Mg-Mn Alloy AA5454. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 351-356	0.4	2
17	Methodology for Quantification of the Roping Phenomena in 6xxx Automotive Car Body Sheet Alloys. <i>Materials Science Forum</i> , <b>2014</b> , 794-796, 45-50	0.4	1
16	Advanced modelling of failure mechanisms in aluminium sheet forming simulation. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 355-358	2	1
15	Texture Analysis for Determining the Rate Controlling Process in the Transient and Steady State Regions of Superplastic Flow. <i>Materials Science Forum</i> , <b>2011</b> , 702-703, 360-365	0.4	1
14	Efficient and Robust Prediction of Localized Necking in Sheet Metals <b>2011</b> ,		1
13	Simulation of Recrystallization and Recrystallization Textures in Aluminium Alloys. <i>Materials Science Forum</i> , <b>2012</b> , 715-716, 399-406	0.4	1
12	Texture Evolution during Roll-Cladding of a Composite of Five Plies of Ferritic Stainless Steel and Aluminium Sheets. <i>Materials Science Forum</i> , <b>2005</b> , 495-497, 1681-1686	0.4	1
11	Effect of precipitation state on plastic anisotropy in sheets of the age-hardenable aluminium alloys AA 6016 and AA 7021. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 830, 142324	5.3	1
10	Simulation of Microstructure and Texture Evolution in Aluminum Sheet <b>2009</b> , 510-521		1
9	Microchemistry-dependent simulation of yield stress and flow stress in non-heat treatable Al sheet alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2020</b> , 28, 035010	2	1
8	Evolution of micro-chemistry during solidification and homogenisation of AA 3xxx aluminium-manganese alloys. <i>Materials Science and Technology</i> , <b>2021</b> , 37, 893-908	1.5	1
7	Effect of Natural Ageing on Strength and Anisotropy in Aluminium Alloy AA 6005C. <i>Materials Science Forum</i> , <b>2016</b> , 877, 688-694	0.4	1
6	Characterization and statistical modeling of the precipitation kinetics in the commercial aluminum alloy AA5182. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1369, 1		0
5	Quantification of roping in aluminium sheet alloys for car body applications by combining 3D surface measurements with Fourier analysis. <i>International Journal of Materials Research</i> , <b>2015</b> , 106, 248-257	0.5	1
4	Ductile Failure Modelling in AA5182 Aluminium Alloy Sheet Forming. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 47-62	0.4	
3	On the Impact of Thermo-Mechanical Processing on Texture and the Resultant Anisotropy of Aluminium Sheet. <i>Materials Science Forum</i> , <b>2011</b> , 702-703, 427-434	0.4	
2	Modeling of Rolling and Recrystallization Textures in the Production of Aluminum Sheets. <i>Materials Science Forum</i> , <b>2002</b> , 408-412, 1407-1412	0.4	

- 1 Temper rolling to control texture and earing in aluminium alloy AA 5050A. *MATEC Web of Conferences*, **2020**, 326, 05002

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