

Juergen R Hirsch

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.

75 papers	3,683 citations	20 h-index	60 g-index
78 ext. papers	4,086 ext. citations	2 avg, IF	6.05 L-index

#	Paper	IF	Citations
75	Texture Development in Aluminum Alloys with High Magnesium Content. <i>Metals</i> , 2022 , 12, 723	2.3	0
74	The Casting Rate Impact on the Microstructure in AlMgBi Alloy with Silicon Excess and Small Zr, Sc Additives. <i>Metals</i> , 2021 , 11, 2056	2.3	1
73	Influence of the Small Sc and Zr Additions on the As-Cast Microstructure of AlMgBi Alloys with Excess Silicon. <i>Metals</i> , 2021 , 11, 1797	2.3	1
72	Investigation of the Intermetallic Compounds Fragmentation Impact on the Formation of Texture during the as Cast Structure Thermomechanical Treatment of Aluminum Alloys. <i>Metals</i> , 2021 , 11, 507	2.3	4
71	Influence of Mg Content on Texture Development during Hot Plain-Strain Deformation of Aluminum Alloys. <i>Metals</i> , 2021 , 11, 865	2.3	4
70	Impact of Zener-Hollomon parameter on substructure and texture evolution during thermomechanical treatment of iron-containing wrought aluminium alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 893-906	3.3	4
69	Study of recrystallization kinetics in AA5182 aluminium alloy after deformation of the as-cast structure. <i>Materials Research Express</i> , 2019 , 6, 066552	1.7	6
68	Bendability enhancement of an age-hardenable aluminum alloy: Part II Multiscale numerical modeling of shear banding and fracture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 161-177	5.3	14
67	Neural-network analysis of socio-medical data to identify predictors of undiagnosed hepatitis C virus infections in Germany (DETECT). <i>Journal of Translational Medicine</i> , 2019 , 17, 94	8.5	6
66	Bendability enhancement of an age-hardenable aluminum alloy: Part I Relationship between microstructure, plastic deformation and fracture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 753, 179-191	5.3	16
65	Study of the recrystallization behaviour of the aluminium 1565ch alloy during hot rolling of the as cast structures. <i>Materials Research Express</i> , 2019 , 6, 076524	1.7	3
64	Specific Features of Microstructural Evolution During Hot Rolling of the As-Cast Magnesium-Rich Aluminum Alloys with Added Transition Metal Elements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5782-5799	2.3	6
63	Development of the new fast approach for calculation of texture evolution during hot deformation of aluminum alloys. <i>Procedia Manufacturing</i> , 2019 , 37, 492-499	1.5	3
62	Deformation banding in a precipitation hardened aluminum alloy during simple shear deformation. <i>Scripta Materialia</i> , 2019 , 162, 300-305	5.6	10
61	Influence of Local Inhomogeneity of Thermomechanical Treatment Conditions on Microstructure Evolution in Aluminum Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6780-6799	1.6	10
60	Corrosion of Materials after Advanced Surface Processing, Joining, and Welding. <i>International Journal of Corrosion</i> , 2018 , 2018, 1-3	2	7
59	Development of New Fast Algorithms for Calculation of Texture Evolution during Hot Continuous Rolling of AlBe Alloys. <i>Steel Research International</i> , 2017 , 88, 1700053	1.6	11

58	Effect of Dispersoids on Long-Term Stable Electrical Aluminium Connections. <i>Materials Science Forum</i> , 2016 , 877, 409-415	0.4	2
57	Recent development in aluminium for automotive applications. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 1995-2002	3.3	372
56	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> , 2014 , 794-796, 670-675	0.4	4
55	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> , 2014 , 794-796, 722-727	0.4	3
54	Superior light metals by texture engineering: Optimized aluminum and magnesium alloys for automotive applications. <i>Acta Materialia</i> , 2013 , 61, 818-843	8.4	716
53	The kinetics of clustering in AlMgSi alloys studied by Monte Carlo simulation. <i>International Journal of Materials Research</i> , 2012 , 103, 980-986	0.5	14
52	The Effect of Cu and Cr on Clustering and Precipitation in Al-Mg-Si Alloys 2012 , 1125-1130		1
51	Advances in Integrated Computational Materials Engineering ICME 2012 , 311-318		
50	Textures in Industrial Processes and Products. <i>Materials Science Forum</i> , 2011 , 702-703, 18-25	0.4	8
49	History of ICME in the European Aluminium Industry 2011 , 203-210		6
48	Aluminium sheet fabrication and processing 2011 , 719-746		8
47	Aluminium in Innovative Light-Weight Car Design. <i>Materials Transactions</i> , 2011 , 52, 818-824	1.3	272
46	Recrystallization Modeling of AA8XXX Alloys with Cellular Automata Considering Recovering Kinetics. <i>Advanced Engineering Materials</i> , 2010 , 12, 131-140	3.5	17
45	Control of recrystallisation texture and texture-related properties in industrial production of aluminium sheet. <i>International Journal of Materials Research</i> , 2009 , 100, 564-575	0.5	20
44	Koordinatenmesstechnik als Schlüsseltechnologie der Fertigungsmesstechnik Coordinate Metrology as a Key Technology in Production Measurement. <i>TM Technisches Messen</i> , 2009 , 76, 73-82	0.7	1
43	Simulation of Microstructure and Texture Evolution in Aluminum Sheet 2009 , 510-521		1
42	Hot Formability and Texture Formation in Al Alloys. <i>Materials Science Forum</i> , 2008 , 604-605, 259-266	0.4	3
41	Through-process simulation of texture and properties during the thermomechanical processing of aluminium sheets. <i>Acta Materialia</i> , 2007 , 55, 5449-5463	8.4	58

40	Polycrystal-plasticity simulation of six and eight ears in deep-drawn aluminum cups. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 640-651	5.3	45
39	AluMATTER, a New Interactive e-Learning Tool. <i>Materials Science Forum</i> , 2006 , 519-521, 1209-1214	0.4	1
38	Through Process Modelling. <i>Materials Science Forum</i> , 2006 , 519-521, 15-24	0.4	11
37	AluMATTER, a New Interactive E-Learning Tool. <i>Materials Science Forum</i> , 2005 , 495-497, 615-622	0.4	
36	Texture Evolution and Earing in Aluminium Can Sheet. <i>Materials Science Forum</i> , 2005 , 495-497, 1565-1570.	0.4	13
35	Property Control in Production of Aluminum Sheet by Use of Simulation 2005 , 705-725		3
34	Thermomechanical Control in Aluminium Sheet Production. <i>Materials Science Forum</i> , 2003 , 426-432, 185-194	0.4	4
33	Texture control by thermomechanical processing of AA6xxx Al-Mg-Si sheet alloys for automotive applications – a review. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 336, 249-262	5.3	285
32	A Statistical Model for Precipitation - Applications to Commercial Al-Mn-Mg-Fe-Si Alloys. <i>Materials Science Forum</i> , 2002 , 396-402, 637-642	0.4	16
31	Advances in Industrial Aluminium Research and Development. <i>Materials Science Forum</i> , 2002 , 396-402, 1721-1730	0.4	5
30	A Texture Component Crystal Plasticity Finite Element Method for Scalable Large Strain Anisotropy Simulations. <i>Materials Science Forum</i> , 2002 , 408-412, 257-262	0.4	2
29	Practical Application of Modeling in the Industrial Sheet Production. <i>Materials Science Forum</i> , 2000 , 331-337, 421-430	0.4	7
28	Aluminium Alloys for Automotive Application. <i>Materials Science Forum</i> , 1997 , 242, 33-50	0.4	95
27	On the role of texture development in the forming limits of sheet metals. <i>International Journal of Mechanical Sciences</i> , 1996 , 38, 1117-1126	5.5	45
26	Recrystallization Textures and Plastic Anisotropy in Al-Mg-Si Sheet Alloys. <i>Materials Science Forum</i> , 1996 , 217-222, 479-486	0.4	31
25	Earing and Texture Evolution in Al Can-Sheet. <i>Materials Science Forum</i> , 1996 , 217-222, 641-646	0.4	10
24	Texture development in Al-1.8 wt% Cu depending on the precipitation state-II. Recrystallization textures. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 121-138		39
23	On the Effect of Grain Orientation on Deformation Texture. <i>Materials Science Forum</i> , 1994 , 157-162, 1777-1782	0.4	2

22	Formation of Recrystallization Textures and Plastic Anisotropy in Al-Mg-Si Alloys. <i>Materials Science Forum</i> , 1994 , 157-162, 939-944	0.4	9
21	Influence of the Rolling Temperature on the Texture Gradient in an Al-Mg-Si Alloy. <i>Materials Science Forum</i> , 1994 , 157-162, 673-678	0.4	5
20	Texture Evolution during Deep Drawing in Aluminium Sheet. <i>Materials Science Forum</i> , 1994 , 157-162, 1979-1984	0.4	4
19	Effect of pretreatment and texture on recovery and recrystallisation in Al _{0.5} Mg _{0.7} Mn alloy. <i>Materials Science and Technology</i> , 1994 , 10, 771-782	1.5	24
18	Application of nondestructive techniques for the prediction of elastic anisotropy of a textured polycrystalline material. <i>Journal of Nondestructive Evaluation</i> , 1993 , 12, 79-95	2.1	
17	Crystallography-based prediction of plastic anisotropy of polycrystalline materials. <i>Journal of Nondestructive Evaluation</i> , 1993 , 12, 97-107	2.1	
16	Evaluation of mechanical properties for fundamental studies in structural superplasticity. <i>Journal of Materials Science</i> , 1991 , 26, 5301-5308	4.3	5
15	Superplasticity-dislocation creep interactions in a coarse grained Al-Cu-Zr alloy. <i>Journal of Materials Science</i> , 1991 , 26, 5309-5317	4.3	15
14	The Effect of Textures on Shape Memory Behaviour. <i>Materials Science Forum</i> , 1991 , 56-58, 487-492	0.4	26
13	Correlation of deformation texture and microstructure. <i>Materials Science and Technology</i> , 1990 , 6, 1048-1057	1.5	28
12	Texture development in Al 1.8wt% Cu depending on the precipitation state□ Rolling textures. <i>Acta Metallurgica</i> , 1989 , 37, 2743-2753		83
11	Overview no. 76. <i>Acta Metallurgica</i> , 1988 , 36, 2863-2882		518
10	Overview No. 76. <i>Acta Metallurgica</i> , 1988 , 36, 2905-2927		273
9	Overview no. 76. <i>Acta Metallurgica</i> , 1988 , 36, 2883-2904		291
8	Description and Presentation Methods for Textures. <i>Textures and Microstructures</i> , 1988 , 8, 131-151		8
7	Rolling and recrystallization textures in directionally solidified aluminium. <i>Acta Metallurgica</i> , 1987 , 35, 427-438		77
6	Deformation processes in hot worked copper and brass. <i>Acta Metallurgica</i> , 1986 , 34, 2247-2257		23
5	The application of quantitative texture analysis for investigating continuous and discontinuous recrystallization processes of Al-0.01 Fe. <i>Acta Metallurgica</i> , 1985 , 33, 1927-1938		64

- 4 Rolling and Recrystallization Textures in Copper-Germanium Alloys. *International Journal of Materials Research*, **1984**, 75, 113-123 0.5 3
- 3 Anisotropie bei Federbildern aus Kupferlegierungen. *Materialwissenschaft Und Werkstofftechnik*, **1981**, 12, 256-262 0.9
- 2 Crystallographic Textures and a Magnifying Glass to Investigate Materials 387-402
- 1 Specific of the Recrystallization Driving Force Calculation on the early Stages of Thermomechanical Treatment of Aluminum Alloys. *Materials Science Forum*, 1037, 273-280 0.4 0