John Jonas

List of Publications by Citations

341 papers	17,810 citations	65 h-index	124 g-index
341 ext. papers	19,344 ext. citations	3.4 avg, IF	6.68 L-index

#	Paper	IF	Citations
341	Current issues in recrystallization: a review. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 238, 219-274	5.3	1602
340	Dynamic and post-dynamic recrystallization under hot, cold and severe plastic deformation conditions. *Progress in Materials Science*, **2014**, 60, 130-207	42.2	1385
339	Overview no. 35 Dynamic recrystallization: Mechanical and microstructural considerations. *Acta Metallurgica*, **1984**, 32, 189-209		867
338	A one-parameter approach to determining the critical conditions for the initiation of dynamic recrystallization. *Acta Materialia*, **1996**, 44, 127-136	8.4	682
337	The relation between macroscopic and microscopic strain hardening in F.C.C. polycrystals. *Acta Metallurgica*, **1984**, 32, 1637-1653		425
336	The Avrami kinetics of dynamic recrystallization. *Acta Materialia*, **2009**, 57, 2748-2756	8.4	387
335	Twinning and texture development in two Mg alloys subjected to loading along three different strain paths. *Acta Materialia*, **2007**, 55, 3899-3910	8.4	384
334	Cold rolling and annealing textures in low carbon and extra low carbon steels. *International Materials Reviews*, **1994**, 39, 129-172	16.1	371
333	Initiation of Dynamic Recrystallization in Constant Strain Rate Hot Deformation. *ISIJ International*, **2003**, 43, 684-691	1.7	321
332	Axial stresses and texture development during the torsion testing of Al, Cu and □Fe. *Acta Metallurgica*, **1984**, 32, 2077-2089		290
331	Hot ductility of steels and its relationship to the problem of transverse cracking during continuous casting. *International Materials Reviews*, **1991**, 36, 187-220	16.1	274
330	Influence of {10-12} extension twinning on the flow behavior of AZ31 Mg alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 445-446, 302-309	5.3	252
329	Theory of torsion texture development. *Acta Metallurgica*, **1984**, 32, 211-226		242
328	The role of strain accommodation during the variant selection of primary twins in magnesium. *Acta Materialia*, **2011**, 59, 2046-2056	8.4	241
327	Twinning-induced softening in polycrystalline AM30 Mg alloy at moderate temperatures. *Scripta Materialia*, **2006**, 54, 771-775	5.6	232
326	Effect of rate sensitivity on the stability of torsion textures. *Acta Metallurgica*, **1988**, 36, 3077-3091		213
325	Modelling the effect of deformation-induced vacancies on segregation and precipitation. *Acta Metallurgica Et Materialia*, **1994**, 42, 133-141		173

324	Relation between axial stresses and texture development during torsion testing: A simplified theory. *Acta Metallurgica*, **1985**, 33, 705-717		173
323	Plastic stability in tension and compression. *Acta Metallurgica*, **1976**, 24, 911-918		169
322	Predicting the Critical Stress for Initiation of Dynamic Recrystallization. *ISIJ International*, **2006**, 46, 1679-1684		157
321	Variant selection of primary, secondary and tertiary twins in a deformed Mg alloy. *Acta Materialia*, **2012**, 60, 2043-2053	8.4	154
320	Variant selection during secondary twinning in Mg-3%Al. *Acta Materialia*, **2010**, 58, 3970-3983	8.4	152
319	Dynamic precipitation and solute hardening in A V microalloyed steel and two Nb steels containing high levels of Mn. *Acta Metallurgica*, **1981**, 29, 111-121		145
318	Effect of initial grain size on dynamic recrystallization of copper. *Metal Science*, **1983**, 17, 609-616		141
317	Transformation Textures in Steels.. *ISIJ International*, **1994**, 34, 927-942	1.7	135
316	Stress response and persistence characteristics of the ideal orientations of shear textures. *Acta Metallurgica*, **1989**, 37, 2197-2210		131
315	Mathematical modeling of the hot strip rolling of microalloyed Nb, multiply-alloyed Cr-Mo, and plain C-Mn steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2000**, 31, 511-530	2.3	118
314	Effect of vanadium and molybdenum addition on high temperature recovery, recrystallization and precipitation behavior of niobium-based microalloyed steels. *Acta Metallurgica*, **1983**, 31, 161-174		116
313	DEFORMATION OF ALUMINIUM AT HIGH TEMPERATURES AND STRAIN RATES. *Canadian Journal of Physics*, **1967**, 45, 1225-1234	1.1	115
312	Equivalent strain in large deformation torsion testing : Theoretical and practical considerations. *Journal of the Mechanics and Physics of Solids*, **1982**, 30, 75-90	5	109
311	Yield surfaces for textured polycrystals— Crystallographic approach. *Acta Metallurgica*, **1987**, 35, 439-451		107
310	A mechanical interpretation of the activation energy of high temperature deformation in two phase materials. *Acta Materialia*, **1996**, 44, 1665-1672	8.4	104
309	Influence of Ferrite Rolling Temperature on Microstructure and Texture in Deformed Low C and IF Steels.. *ISIJ International*, **1997**, 37, 697-705	1.7	103
308	Critical Strain for Dynamic Recrystallization in Variable Strain Rate Hot Deformation. *ISIJ International*, **2003**, 43, 692-700	1.7	98
307	The Dynamic, Static and Metadynamic Recrystallization of a Nb-microalloyed Steel.. *ISIJ International*, **2001**, 41, 63-69	1.7	96

306	Texture development during the torsion testing of □ron and two IF steels. *Acta Materialia*, **1996**, 44, 4273-4288	8.4	89
305	Recovery and recrystallization of polycrystalline nickel after hot working. *Acta Metallurgica*, **1988**, 36, 1781-1790		89
304	Recovery and recrystallization of polycrystalline copper after hot working. *Acta Metallurgica*, **1979**, 27, 1633-1648		89
303	The development of strain-rate gradients. *Acta Metallurgica*, **1979**, 27, 419-432		88
302	Initiation and accommodation of primary twins in high-purity titanium. *Acta Materialia*, **2014**, 71, 293-305	8.4	86
301	Spreadsheet Modelling of Grain Size Evolution during Rod Rolling.. *ISIJ International*, **1996**, 36, 720-728	1.7	82
300	Dynamic transformation of deformed austenite at temperatures above the Ae3. *Progress in Materials Science*, **2016**, 82, 151-233	42.2	82
299	Evolution of microstructure and microtexture during the hot deformation of Mg□% Al. *Acta Materialia*, **2010**, 58, 4253-4266	8.4	80
298	Kinetics and Critical Conditions for the Initiation of Dynamic Recrystallization in 304 Stainless Steel. *ISIJ International*, **2004**, 44, 1581-1589	1.7	79
297	The non-equilibrium segregation of boron on original and moving austenite grain boundaries. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2002**, 335, 49-61	5.3	76
296	Modeling Texture Change during the Recrystallization of an IF Steel.. *ISIJ International*, **1994**, 34, 435-442	1.7	75
295	Plastic instability and flow localization in shear at high rates of deformation. *Acta Metallurgica*, **1984**, 32, 1347-1354		75
294	The dynamic transformation of deformed austenite at temperatures above the Ae3. *Acta Materialia* , **2013**, 61, 2348-2362	8.4	74
293	Effect of dynamic recrystallization on microstruvctural evolution during strip rolling.. *ISIJ International*, **1990**, 30, 216-225	1.7	74
292	Dynamic recrystallization□cientific curiosity or industrial tool?. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1994**, 184, 155-165	5.3	72
291	Grain boundary segregation of boron during continuous cooling. *Acta Metallurgica*, **1989**, 37, 147-161		71
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285	Influence of Ferrite Rolling Temperature on Grain Size and Texture in Annealed Low C and IF Steels.. *ISIJ International*, **1997**, 37, 706-714	1.7	68
284	Effect of temperature and hydrogen concentration on the lattice parameter of beta titanium. *Materials Research Bulletin*, **2001**, 36, 1431-1440	5.1	68
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282	Softening and Flow Stress Behaviour of Nb Microalloyed Steels during Hot Rolling Simulation.. *ISIJ International*, **1995**, 35, 1523-1531	1.7	68
281	Dynamic precipitation and solute hardening in a titanium microalloyed steel containing three levels of manganese. *Acta Metallurgica*, **1984**, 32, 591-601		68
280	Dynamic recrystallization during the transient deformation of a vanadium microalloyed steel. *Acta Metallurgica*, **1983**, 31, 631-641		67
279	Evolution of recrystallization texture in a 0.78 wt.% Cr extra-low-carbon steel after warm and cold rolling. *Acta Materialia*, **2011**, 59, 4847-4865	8.4	66
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265	Representation of misorientations in Rodrigues–Frank space: application to the Bain, Kurdjumov–Sachs, Nishiyama–Wassermann and Pitsch orientation relationships in the Gibeon meteorite. *Acta Materialia*, **2005**, 53, 1179-1190	8.4	53
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260	Flow stress and substructural change during the transient deformation of Armco iron and silicon steel. *Acta Metallurgica*, **1971**, 19, 1053-1061		50
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257	Observations of the Gibeon meteorite and the inverse Greninger–Troiano orientation relationship. *Journal of Applied Crystallography*, **2006**, 39, 72-81	3.8	45
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247	Orientation dependence of the martensite transformation in a quenched and partitioned steel subjected to uniaxial tension. *Journal of Applied Crystallography*, **2014**, 47, 1261-1266	3.8	38
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245	Predictions of forming limit diagrams using crystal plasticity models. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1998**, 257, 128-133	5.3	37
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