Sven Erik Offerman

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5342581/publications.pdf Version: 2024-02-01

		687363	501196
33	1,514	13	28
papers	citations	h-index	g-index
33	33	33	1124
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Thermal stability of retained austenite in TRIP steels studied by synchrotron X-ray diffraction during cooling. Acta Materialia, 2005, 53, 5439-5447.	7.9	460
2	Grain Nucleation and Growth During Phase Transformations. Science, 2002, 298, 1003-1005.	12.6	339
3	Characterization of individual retained austenite grains and their stability in low-alloyed TRIP steels. Acta Materialia, 2007, 55, 6713-6723.	7.9	226
4	The effect of aluminium and phosphorus on the stability of individual austenite grains in TRIP steels. Acta Materialia, 2009, 57, 533-543.	7.9	80
5	Ferrite/pearlite band formation in hot rolled medium carbon steel. Materials Science and Technology, 2002, 18, 297-303.	1.6	74
6	In-situ study of pearlite nucleation and growth during isothermal austenite decomposition in nearly eutectoid steel. Acta Materialia, 2003, 51, 3927-3938.	7.9	58
7	Austenite Nucleation and Growth Observed on the Level of Individual Grains by Three-Dimensional X-Ray Diffraction Microscopy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 583-591.	2.2	49
8	Solid-state phase transformations involving solute partitioning: modeling and measuring on the level of individual grains. Acta Materialia, 2004, 52, 4757-4766.	7.9	46
9	Barrier-free heterogeneous grain nucleation in polycrystalline materials: The austenite to ferrite phase transformation in steel. Acta Materialia, 2007, 55, 4489-4498.	7.9	31
10	High temperature SANS experiments on Nb(C,N) and MnS precipitates in HSLA steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 1883-1891.	2.2	19
11	In situ observations on the mechanical stability ofÂaustenite in TRIP-steel. European Physical Journal Special Topics, 2003, 104, 499-502.	0.2	15
12	3DXRD Characterization and Modeling of Solid-State Transformation Processes. MRS Bulletin, 2008, 33, 621-629.	3.5	14
13	Preferential Nucleation during Polymorphic Transformations. Scientific Reports, 2016, 6, 30860.	3.3	13
14	Effect of Ti on Evolution of Microstructure and Hardness of Martensitic Fe–C–Mn Steel during Tempering. ISIJ International, 2014, 54, 2890-2899.	1.4	12
15	Neutron depolarization study of the austenite/pearlite phase transformation in steel. Applied Physics A: Materials Science and Processing, 2002, 74, s1052-s1054.	2.3	9
16	A Comparison between Ultra-high-strength and Conventional High-strength Fastener Steels: Mechanical Properties at Elevated Temperature and Microstructural Mechanisms. ISIJ International, 2016, 56, 1874-1883.	1.4	9
17	Effect of Silicon, Manganese and Heating Rate on the Ferrite Recrystallization Kinetics. ISIJ International, 2020, 60, 1312-1323.	1.4	9
18	MATERIALS SCIENCE: Microstructures in 4D. Science, 2004, 305, 190-191.	12.6	7

#	Article	IF	CITATIONS
19	Modelling the Evolution of Multiple Hardening Mechanisms during Tempering of Fe–C–Mn–Ti Martensite. ISIJ International, 2015, 55, 884-893.	1.4	7
20	CFD modelling of the off-gas system of HIsarna iron making process. Part 1: model development using detailed reaction mechanism for post-combustion of CO–H ₂ mixture and carbon particles. Ironmaking and Steelmaking, 2022, 49, 828-844.	2.1	6
21	High-temperature magnetisation measurements on the pearlite transformation kinetics in nearly eutectoid steel. Journal of Magnetism and Magnetic Materials, 2004, 268, 40-48.	2.3	5
22	Cluster formation of pearlite colonies during the austenite/pearlite phase transformation in eutectoid steel. Physica B: Condensed Matter, 2003, 335, 99-103.	2.7	4
23	In Situ Phase Transformation Studies on a Transformation Induced Plasticity Steel Under Simulated Weld Thermal Cycles Using Synchrotron Diffraction. , 2010, , 133-148.		4
24	CFD modelling of the off-gas system HIsarna iron making process part 2: reflux chamber geometry modification and effects on flow behaviour. Ironmaking and Steelmaking, 2022, 49, 783-794.	2.1	4
25	SANS experiments on Nb(C, N) and MnS precipitates in HSLA steel. Applied Physics A: Materials Science and Processing, 2002, 74, s978-s980.	2.3	3
26	Grain Nucleation and Growth of Individual Austenite and Ferrite Grains Studied by 3DXRD Microscopy at the ESRF. , 2010, , 41-75.		3
27	Furnace for in situ and simultaneous studies of nano-precipitates and phase transformations in steels by SANS and neutron diffraction. Review of Scientific Instruments, 2020, 91, 123903.	1.3	3
28	Zinc Vaporization and Self-reduction Behavior of Industrial Waste Residues for Recycling to the HIsarna Furnace. Journal of Sustainable Metallurgy, 2022, 8, 658-672.	2.3	2
29	Synchrotron diffraction analysis of retained austenite in welded transformation induced plasticity (TRIP) steels. Science and Technology of Welding and Joining, 2012, 17, 146-154.	3.1	1
30	Influence of dislocations on the apparent elastic constants in single metallic crystallites: an analytical approach. Materialia, 2021, 20, 101178.	2.7	1
31	Experimental and Discrete Element Method Analysis of Galvanized Steel Scrap Particles Along and After an Inclined Chute. Steel Research International, 0, , 2200075.	1.8	1
32	Nucleation Kinetics of the \hat{I}^3 -Phase in a Binary Mg-Al Alloy. , 2013, , 259-262.		0
33	In Situ Synchrotron Diffraction Studies on the Formation, Decomposition and Stabilisation of Austenite in TRIP Steels During Simulated Weld Thermal Cycles. , 2014, , 71-88.		0