Matthias Kuntz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1051027/publications.pdf

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21	846	567281	752698
papers	citations	15	20
		h-index	g-index

22	22	22	418
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of martensitic microstructures in a low-alloy steel. Archive of Applied Mechanics, 2021, 91, 1641-1668.	2.2	4
2	A New Systematic Approach Based on Dilatometric Analysis to Track Bainite Transformation Kinetics and the Influence of the Prior Austenite Grain Size. Metals, 2021, 11, 324.	2.3	8
3	Inverse Method to Determine Fatigue Properties of Materials by Combining Cyclic Indentation and Numerical Simulation. Materials, 2020, 13, 3126.	2.9	8
4	Investigation of Size Effects Due to Different Cooling Rates of As-Quenched Martensite Microstructures in a Low-Alloy Steel. Applied Sciences (Switzerland), 2020, 10, 5395.	2.5	6
5	Retained Austenite Destabilization during Tempering of Low-Temperature Bainite. Applied Sciences (Switzerland), 2020, 10, 8901.	2.5	18
6	Low-Temperature Bainite: A Thermal Stability Study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2026-2036.	2.2	22
7	Tensile Ductility of Nanostructured Bainitic Steels: Influence of Retained Austenite Stability. Metals, 2017, 7, 31.	2.3	25
8	A Constitutive Relationship between Fatigue Limit and Microstructure in Nanostructured Bainitic Steels. Materials, 2016, 9, 831.	2.9	25
9	Ductility of Nanostructured Bainite. Metals, 2016, 6, 302.	2.3	34
10	Induced martensitic transformation during tensile test in nanostructured bainitic steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 169-177.	5.6	30
11	Analyzing the scale of the bainitic ferrite plates by XRD, SEM and TEM. Materials Characterization, 2016, 122, 83-89.	4.4	73
12	Low temperature bainitic ferrite: Evidence of carbon super-saturation and tetragonality. Acta Materialia, 2015, 91, 162-173.	7.9	94
13	On the role of microstructure in governing the fatigue behaviour of nanostructured bainitic steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 71-77.	5.6	70
14	Tensile Response of Two Nanoscale Bainite Composite-Like Structures. Jom, 2015, 67, 2223-2235.	1.9	48
15	Annealing-induced Hardening in a Nanostructured Low-carbon Steel Prepared by Using Dynamic Plastic Deformation. Journal of Materials Science and Technology, 2014, 30, 731-735.	10.7	22
16	Nanostructured steel industrialisation: Plausible reality. Materials Science and Technology, 2014, 30, 1071-1078.	1.6	67
17	Evaluation of potential of high Si high C steel nanostructured bainite for wear and fatigue applications. Materials Science and Technology, 2013, 29, 1166-1173.	1.6	96
18	Ultrasonic fatigue testing on notched and smooth specimens of ultrafine-grained steel. Materials & Design, 2012, 37, 515-520.	5.1	20

#	Article	IF	Citations
19	Tensile behaviour of a nanocrystalline bainitic steel containing 3wt% silicon. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 549, 185-192.	5.6	168
20	Effect of Tensile Strength and Microstructure on Notch-fatigue Properties of Ultrafine-grained Steels. ISIJ International, 2012, 52, 910-914.	1.4	5
21	Correlation of Fatigue Limit and Crack Growth Threshold Value to the Nanobainitic Microstructure. Solid State Phenomena, 0, 258, 314-317.	0.3	2