

# Matthias Kuntz

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

846  
citations

567281

15  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

418  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensile behaviour of a nanocrystalline bainitic steel containing 3wt% silicon. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 549, 185-192.	5.6	168
2	Evaluation of potential of high Si high C steel nanostructured bainite for wear and fatigue applications. <i>Materials Science and Technology</i> , 2013, 29, 1166-1173.	1.6	96
3	Low temperature bainitic ferrite: Evidence of carbon super-saturation and tetragonality. <i>Acta Materialia</i> , 2015, 91, 162-173.	7.9	94
4	Analyzing the scale of the bainitic ferrite plates by XRD, SEM and TEM. <i>Materials Characterization</i> , 2016, 122, 83-89.	4.4	73
5	On the role of microstructure in governing the fatigue behaviour of nanostructured bainitic steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 630, 71-77.	5.6	70
6	Nanostructured steel industrialisation: Plausible reality. <i>Materials Science and Technology</i> , 2014, 30, 1071-1078.	1.6	67
7	Tensile Response of Two Nanoscale Bainite Composite-Like Structures. <i>Jom</i> , 2015, 67, 2223-2235.	1.9	48
8	Ductility of Nanostructured Bainite. <i>Metals</i> , 2016, 6, 302.	2.3	34
9	Induced martensitic transformation during tensile test in nanostructured bainitic steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 662, 169-177.	5.6	30
10	A Constitutive Relationship between Fatigue Limit and Microstructure in Nanostructured Bainitic Steels. <i>Materials</i> , 2016, 9, 831.	2.9	25
11	Tensile Ductility of Nanostructured Bainitic Steels: Influence of Retained Austenite Stability. <i>Metals</i> , 2017, 7, 31.	2.3	25
12	Annealing-induced Hardening in a Nanostructured Low-carbon Steel Prepared by Using Dynamic Plastic Deformation. <i>Journal of Materials Science and Technology</i> , 2014, 30, 731-735.	10.7	22
13	Low-Temperature Bainite: A Thermal Stability Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2026-2036.	2.2	22
14	Ultrasonic fatigue testing on notched and smooth specimens of ultrafine-grained steel. <i>Materials &amp; Design</i> , 2012, 37, 515-520.	5.1	20
15	Retained Austenite Destabilization during Tempering of Low-Temperature Bainite. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8901.	2.5	18
16	Inverse Method to Determine Fatigue Properties of Materials by Combining Cyclic Indentation and Numerical Simulation. <i>Materials</i> , 2020, 13, 3126.	2.9	8
17	A New Systematic Approach Based on Dilatometric Analysis to Track Bainite Transformation Kinetics and the Influence of the Prior Austenite Grain Size. <i>Metals</i> , 2021, 11, 324.	2.3	8
18	Investigation of Size Effects Due to Different Cooling Rates of As-Quenched Martensite Microstructures in a Low-Alloy Steel. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5395.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Effect of Tensile Strength and Microstructure on Notch-fatigue Properties of Ultrafine-grained Steels. ISIJ International, 2012, 52, 910-914.	1.4	5
20	Simulation of martensitic microstructures in a low-alloy steel. Archive of Applied Mechanics, 2021, 91, 1641-1668.	2.2	4
21	Correlation of Fatigue Limit and Crack Growth Threshold Value to the Nanobainitic Microstructure. Solid State Phenomena, 0, 258, 314-317.	0.3	2