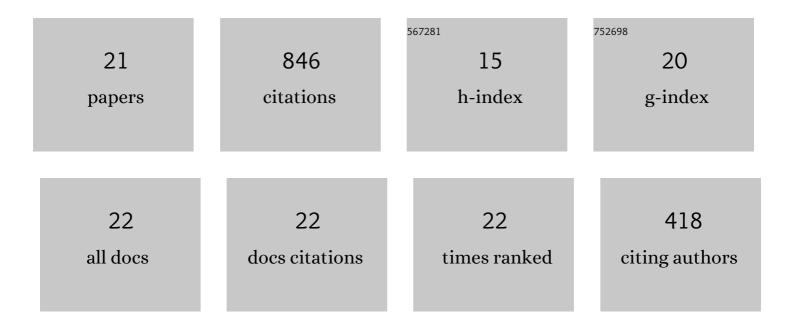
## Matthias Kuntz

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1051027/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	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
2	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
3	Low temperature bainitic ferrite: Evidence of carbon super-saturation and tetragonality. Acta Materialia, 2015, 91, 162-173.	7.9	94
4	Analyzing the scale of the bainitic ferrite plates by XRD, SEM and TEM. Materials Characterization, 2016, 122, 83-89.	4.4	73
5	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
6	Nanostructured steel industrialisation: Plausible reality. Materials Science and Technology, 2014, 30, 1071-1078.	1.6	67
7	Tensile Response of Two Nanoscale Bainite Composite-Like Structures. Jom, 2015, 67, 2223-2235.	1.9	48
8	Ductility of Nanostructured Bainite. Metals, 2016, 6, 302.	2.3	34
9	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
10	A Constitutive Relationship between Fatigue Limit and Microstructure in Nanostructured Bainitic Steels. Materials, 2016, 9, 831.	2.9	25
11	Tensile Ductility of Nanostructured Bainitic Steels: Influence of Retained Austenite Stability. Metals, 2017, 7, 31.	2.3	25
12	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
13	Low-Temperature Bainite: A Thermal Stability Study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2026-2036.	2.2	22
14	Ultrasonic fatigue testing on notched and smooth specimens of ultrafine-grained steel. Materials & Design, 2012, 37, 515-520.	5.1	20
15	Retained Austenite Destabilization during Tempering of Low-Temperature Bainite. Applied Sciences (Switzerland), 2020, 10, 8901.	2.5	18
16	Inverse Method to Determine Fatigue Properties of Materials by Combining Cyclic Indentation and Numerical Simulation. Materials, 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. Metals, 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. Applied Sciences (Switzerland), 2020, 10, 5395.	2.5	6

MATTHIAS KUNTZ

#	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