

# Gunther Richter

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8894204/publications.pdf>

Version: 2024-02-01

20  
papers

1,030  
citations

933447

10  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-dispersive X-ray micro Laue diffraction on a bent gold nanowire. Journal of Applied Crystallography, 2021, 54, 80-86.	4.5	5
2	Synthesis of magnetic Fe and Co nano-whiskers and platelets via physical vapor deposition. Materials and Design, 2021, 208, 109914.	7.0	6
3	Plastic Forming of Metals at the Nanoscale: Interdiffusion-Induced Bending of Bimetallic Nanowhiskers. ACS Nano, 2020, 14, 11691-11699.	14.6	3
4	First stages of plasticity in three-point bent Au nanowires detected by in situ Laue microdiffraction. Applied Physics Letters, 2020, 116, 243101.	3.3	1
5	Crystallography of $\text{Fe}_{4\text{N}}$ formation in single-crystalline $\text{Fe}$ whiskers. Journal of Applied Crystallography, 2020, 53, 865-879.	4.5	5
6	Engineering of hollow AlAu <sub>2</sub> nanoparticles on sapphire by solid state dewetting and oxidation of Al. Materials and Design, 2019, 165, 107557.	7.0	10
7	In Situ Coherent X-ray Diffraction during Three-Point Bending of a Au Nanowire: Visualization and Quantification. Quantum Beam Science, 2018, 2, 24.	1.2	7
8	Three-point bending behavior of a Au nanowire studied by <i>in-situ</i> Laue micro-diffraction. Journal of Applied Physics, 2018, 124, .	2.5	5
9	<i>In situ</i> Bragg coherent X-ray diffraction during tensile testing of an individual Au nanowire. Journal of Applied Crystallography, 2018, 51, 781-788.	4.5	11
10	KB scanning of X-ray beam for Laue microdiffraction on accelero-phobic samples: application to <i>in situ</i> mechanically loaded nanowires. Journal of Synchrotron Radiation, 2016, 23, 1395-1400.	2.4	10
11	Formation of hollow gold-silver nanoparticles through the surface diffusion induced bulk intermixing. Acta Materialia, 2016, 117, 188-196.	7.9	11
12	<i>In situ</i> bending of an Au nanowire monitored by micro Laue diffraction. Journal of Applied Crystallography, 2015, 48, 291-296.	4.5	34
13	Measuring surface dislocation nucleation in defect-scarce nanostructures. Nature Materials, 2015, 14, 707-713.	27.5	155
14	The kinetics of hollowing of Ag@Au core-shell nanowhiskers controlled by short-circuit diffusion. Acta Materialia, 2015, 82, 145-154.	7.9	6
15	Surface dislocation nucleation controlled deformation of Au nanowires. Applied Physics Letters, 2014, 105, .	3.3	57
16	Reversible cyclic deformation mechanism of gold nanowires by twinning-detwinning transition evidenced from in situ TEM. Nature Communications, 2014, 5, 3033.	12.8	137
17	Concentration and Strain Fields inside a Ag/Au Core-Shell Nanowire Studied by Coherent X-ray Diffraction. Nano Letters, 2013, 13, 1883-1889.	9.1	23
18	Existence of two twinning-mediated plastic deformation modes in Au nanowhiskers. Acta Materialia, 2012, 60, 3985-3993.	7.9	127

#	ARTICLE	IF	CITATIONS
19	Fabrication of freestanding gold nanotubes. Scripta Materialia, 2010, 63, 933-936.	5.2	11
20	Ultrahigh Strength Single Crystalline Nanowhiskers Grown by Physical Vapor Deposition. Nano Letters, 2009, 9, 3048-3052.	9.1	406