

Gunther Richter

List of Publications by Year in descending order

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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 | Ultra-high Strength Single Crystalline Nanowhiskers Grown by Physical Vapor Deposition. Nano Letters, 2009, 9, 3048-3052. | 9.1 | 406 |
| 2 | Measuring surface dislocation nucleation in defect-scarce nanostructures. Nature Materials, 2015, 14, 707-713. | 27.5 | 155 |
| 3 | Reversible cyclic deformation mechanism of gold nanowires by twinning-detwinning transition evidenced from in situ TEM. Nature Communications, 2014, 5, 3033. | 12.8 | 137 |
| 4 | Existence of two twinning-mediated plastic deformation modes in Au nanowhiskers. Acta Materialia, 2012, 60, 3985-3993. | 7.9 | 127 |
| 5 | Surface dislocation nucleation controlled deformation of Au nanowires. Applied Physics Letters, 2014, 105, . | 3.3 | 57 |
| 6 | In situ bending of an Au nanowire monitored by micro Laue diffraction. Journal of Applied Crystallography, 2015, 48, 291-296. | 4.5 | 34 |
| 7 | 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 |
| 8 | Fabrication of freestanding gold nanotubes. Scripta Materialia, 2010, 63, 933-936. | 5.2 | 11 |
| 9 | Formation of hollow gold-silver nanoparticles through the surface diffusion induced bulk intermixing. Acta Materialia, 2016, 117, 188-196. | 7.9 | 11 |
| 10 | In situ Bragg coherent X-ray diffraction during tensile testing of an individual Au nanowire. Journal of Applied Crystallography, 2018, 51, 781-788. | 4.5 | 11 |
| 11 | KB scanning of X-ray beam for Laue microdiffraction on accelerophobic samples: application to in situ mechanically loaded nanowires. Journal of Synchrotron Radiation, 2016, 23, 1395-1400. | 2.4 | 10 |
| 12 | Engineering of hollow AlAu ₂ nanoparticles on sapphire by solid state dewetting and oxidation of Al. Materials and Design, 2019, 165, 107557. | 7.0 | 10 |
| 13 | 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 |
| 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 | Synthesis of magnetic Fe and Co nano-whiskers and platelets via physical vapor deposition. Materials and Design, 2021, 208, 109914. | 7.0 | 6 |
| 16 | Three-point bending behavior of a Au nanowire studied by in-situ Laue micro-diffraction. Journal of Applied Physics, 2018, 124, . | 2.5 | 5 |
| 17 | Energy-dispersive X-ray micro Laue diffraction on a bent gold nanowire. Journal of Applied Crystallography, 2021, 54, 80-86. | 4.5 | 5 |
| 18 | Crystallography of Fe ₄ N formation in single-crystalline Fe whiskers. Journal of Applied Crystallography, 2020, 53, 865-879. | 4.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Plastic Forming of Metals at the Nanoscale: Interdiffusion-Induced Bending of Bimetallic Nanowhiskers. ACS Nano, 2020, 14, 11691-11699. | 14.6 | 3 |
| 20 | 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 |