

Verena Maier-Kiener

List of Publications by Citations

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59
papers

731
citations

18
h-index

24
g-index

63
ext. papers

948
ext. citations

5.1
avg, IF

4.69
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 59 | Influence of modulus-to-hardness ratio and harmonic parameters on continuous stiffness measurement during nanoindentation. <i>Acta Materialia</i> , 2017 , 134, 167-176 | 8.4 | 57 |
| 58 | Nanoindentation testing as a powerful screening tool for assessing phase stability of nanocrystalline high-entropy alloys. <i>Materials and Design</i> , 2017 , 115, 479-485 | 8.1 | 51 |
| 57 | Advanced Nanoindentation Testing for Studying Strain-Rate Sensitivity and Activation Volume. <i>Jom</i> , 2017 , 69, 2246-2255 | 2.1 | 41 |
| 56 | Deformation in the ϵ Mg17Al12 phase at 250-780°C. <i>Acta Materialia</i> , 2016 , 113, 221-229 | 8.4 | 40 |
| 55 | Grain boundary segregation engineering in as-sintered molybdenum for improved ductility. <i>Scripta Materialia</i> , 2018 , 156, 60-63 | 5.6 | 32 |
| 54 | Insights into the deformation behavior of the CrMnFeCoNi high-entropy alloy revealed by elevated temperature nanoindentation. <i>Journal of Materials Research</i> , 2017 , 32, 2658-2667 | 2.5 | 32 |
| 53 | Anneal hardening and elevated temperature strain rate sensitivity of nanostructured metals: Their relation to intergranular dislocation accommodation. <i>Acta Materialia</i> , 2019 , 165, 409-419 | 8.4 | 31 |
| 52 | Phase Decomposition of a Single-Phase AlTiVNb High-Entropy Alloy after Severe Plastic Deformation and Annealing. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600674 | 3.5 | 27 |
| 51 | Interface dominated mechanical properties of ultra-fine grained and nanoporous Au at elevated temperatures. <i>Acta Materialia</i> , 2016 , 121, 104-116 | 8.4 | 27 |
| 50 | Essential refinements of spherical nanoindentation protocols for the reliable determination of mechanical flow curves. <i>Materials and Design</i> , 2018 , 146, 69-80 | 8.1 | 23 |
| 49 | Dynamic nanoindentation testing: is there an influence on a material's hardness?. <i>Materials Research Letters</i> , 2017 , 5, 486-493 | 7.4 | 23 |
| 48 | Deformation mechanisms during severe plastic deformation of a Cu Ag composite. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2285-2294 | 5.7 | 23 |
| 47 | Rate limiting deformation mechanisms of bcc metals in confined volumes. <i>Acta Materialia</i> , 2019 , 166, 687-701 | 8.4 | 22 |
| 46 | Interplay between sample size and grain size: Single crystalline vs. ultrafine-grained chromium micropillars. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 626-633 | 5.3 | 22 |
| 45 | Dominating deformation mechanisms in ultrafine-grained chromium across length scales and temperatures. <i>Acta Materialia</i> , 2017 , 140, 176-187 | 8.4 | 21 |
| 44 | Elevated temperature mechanical properties of novel ultra-fine grained CuNb composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 296-302 | 5.3 | 20 |
| 43 | Extraction of Flow Behavior and Hall-Petch Parameters Using a Nanoindentation Multiple Sharp Tip Approach. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600669 | 3.5 | 19 |

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| 42 | On the modelling of mixed lubrication of conformal contacts. <i>Tribology International</i> , 2018 , 125, 220-236 | 4.9 | 19 |
| 41 | Thermally activated deformation mechanisms and solid solution softening in W-Re alloys investigated via high temperature nanoindentation. <i>Materials and Design</i> , 2020 , 189, 108499 | 8.1 | 18 |
| 40 | Deformation-induced phase transformation in a Co-Cr-W-Mo alloy studied by high-energy X-ray diffraction during in-situ compression tests. <i>Acta Materialia</i> , 2019 , 164, 272-282 | 8.4 | 15 |
| 39 | Activation volume and energy of bulk metallic glasses determined by nanoindentation. <i>Materials and Design</i> , 2018 , 155, 116-124 | 8.1 | 14 |
| 38 | Deformation behavior of aluminum pillars produced by Xe and Ga focused ion beams: Insights from strain rate jump tests. <i>Materials and Design</i> , 2019 , 181, 107914 | 8.1 | 13 |
| 37 | Influence of crystal orientation and Berkovich tip rotation on the mechanical characterization of grain boundaries in molybdenum. <i>Materials and Design</i> , 2019 , 182, 107998 | 8.1 | 12 |
| 36 | Influence of annealing on microstructure and mechanical properties of ultrafine-grained Ti45Nb. <i>Materials and Design</i> , 2019 , 179, 107864 | 8.1 | 11 |
| 35 | Low temperature deformation of MoSi ₂ and the effect of Ta, Nb and Al as alloying elements. <i>Acta Materialia</i> , 2019 , 181, 385-398 | 8.4 | 11 |
| 34 | Mechanical properties of the magnetocaloric intermetallic LaFe _{11.2} Si _{1.8} alloy at different length scales. <i>Acta Materialia</i> , 2019 , 165, 40-50 | 8.4 | 10 |
| 33 | Bulk metallic dual phase glasses by severe plastic deformation. <i>Intermetallics</i> , 2018 , 94, 172-178 | 3.5 | 8 |
| 32 | Influence of solid solution strengthening on the local mechanical properties of single crystal and ultrafine-grained binary Cu ₃ Al X solid solutions. <i>Journal of Materials Research</i> , 2017 , 32, 4583-4591 | 2.5 | 8 |
| 31 | Grain boundary segregation in Ni-base alloys: a combined atom probe tomography and first principles study. <i>Acta Materialia</i> , 2021 , 221, 117354 | 8.4 | 8 |
| 30 | Disordered interfaces enable high temperature thermal stability and strength in a nanocrystalline aluminum alloy. <i>Acta Materialia</i> , 2021 , 215, 116973 | 8.4 | 7 |
| 29 | Inconel-steel multilayers by liquid dispersed metal powder bed fusion: Microstructure, residual stress and property gradients. <i>Additive Manufacturing</i> , 2020 , 32, 101027 | 6.1 | 6 |
| 28 | Strength ranking for interfaces between a TiN hard coating and microstructural constituents of high speed steel determined by micromechanical testing. <i>Materials and Design</i> , 2021 , 204, 109690 | 8.1 | 6 |
| 27 | Extracting flow curves from nano-sized metal layers in thin film systems. <i>Scripta Materialia</i> , 2017 , 130, 143-147 | 5.6 | 5 |
| 26 | Addressing H-Material Interaction in Fast Diffusion Materials-A Feasibility Study on a Complex Phase Steel. <i>Materials</i> , 2020 , 13, | 3.5 | 5 |
| 25 | Interaction of precipitation, recovery and recrystallization in the Mo-Hf-C alloy MHC studied by multipass compression tests. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 73, 199-203 | 4.1 | 5 |

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| 24 | A Modified Electrochemical Nanoindentation Setup for Probing Hydrogen-Material Interaction Demonstrated on a Nickel-Based Alloy. <i>Jom</i> , 2020 , 72, 2020-2029 | 2.1 | 4 |
| 23 | Microstructural evolution of W-10Re alloys due to thermal cycling at high temperatures and its impact on surface degradation. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 92, 105285 | 4.1 | 4 |
| 22 | High Temperature Flow Behavior of Ultra-Strong Nanoporous Au assessed by Spherical Nanoindentation. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 4 |
| 21 | Effect of Morphological Differences on the Cold Formability of an Isothermally Heat-Treated Advanced High-Strength Steel. <i>Jom</i> , 2018 , 70, 1567-1575 | 2.1 | 3 |
| 20 | Extracting information from noisy data: Strain mapping during dynamic in-situ SEM experiments. <i>Journal of Materials Research</i> , 2021 , 36, 2291-2304 | 2.5 | 3 |
| 19 | Controlling the high temperature deformation behavior and thermal stability of ultra-fine-grained W by re alloying. <i>Journal of Materials Research</i> , 2021 , 36, 2408-2419 | 2.5 | 3 |
| 18 | Hydrogen assisted intergranular cracking of alloy 725: The effect of boron and copper alloying. <i>Corrosion Science</i> , 2022 , 203, 110331 | 6.8 | 3 |
| 17 | Phase Characterization of a Biocompatible Co-Cr-W Alloy Via Correlative Microscopy. <i>Praktische Metallographie/Practical Metallography</i> , 2016 , 53, 450-461 | 0.3 | 2 |
| 16 | Ultralow-temperature superplasticity and its novel mechanism in ultrafine-grained Al alloys. <i>Materials Research Letters</i> , 2021 , 9, 475-482 | 7.4 | 2 |
| 15 | Assessment of grain boundary cohesion of technically pure and boron micro-doped molybdenum via meso-scale three-point-bending experiments. <i>Materials and Design</i> , 2021 , 207, 109848 | 8.1 | 2 |
| 14 | Microstructural Characterization of Molybdenum Grain Boundaries by Micropillar Compression Testing and Atom Probe Tomography. <i>Praktische Metallographie/Practical Metallography</i> , 2019 , 56, 776-786 | 9.3 | 1 |
| 13 | Geometrical model for calculating the effect of surface morphology on total x-ray output of medical x-ray tubes. <i>Medical Physics</i> , 2021 , 48, 1546-1556 | 4.4 | 1 |
| 12 | How the interface type manipulates the thermomechanical response of nanostructured metals: A case study on nickel. <i>Materialia</i> , 2021 , 15, 101020 | 3.2 | 1 |
| 11 | High temperature nanoindentation as a tool to investigate plasticity upon phase transformations demonstrated on Cobalt. <i>Materialia</i> , 2021 , 16, 101084 | 3.2 | 1 |
| 10 | Current trends in nanomechanical testing research. <i>Journal of Materials Research</i> , 2021 , 36, 2133-2136 | 2.5 | 1 |
| 9 | Bending Behavior of Zinc-Coated Hot Stamping Steels. <i>Steel Research International</i> , 2021 , 92, 2100149 | 1.6 | 1 |
| 8 | How grain boundary characteristics influence plasticity close to and above the critical temperature of ultra-fine grained bcc Ta2.5W. <i>Acta Materialia</i> , 2021 , 216, 117110 | 8.4 | 1 |
| 7 | Tuning mechanical properties of ultrafine-grained tungsten by manipulating grain boundary chemistry. <i>Acta Materialia</i> , 2022 , 117939 | 8.4 | 0 |

- 6 Strain-Induced Martensitic Transformation in a Co-Cr-W-Mo Alloy Probed by Nanoindentation. *Minerals, Metals and Materials Series*, **2018**, 247-250 0.3
- 5 Impact of the Microstructure of Refractory Metals on their Mechanical Properties – A Multi-Scale Study. *Praktische Metallographie/Practical Metallography*, **2018**, 55, 603-619 0.3
- 4 Combination of Nanoindentation and Microscopy for the Examination of Aluminum Alloys in Coarse- and Ultrafine-Grained Condition. *Praktische Metallographie/Practical Metallography*, **2019**, 56, 432-442 0.3
- 3 Beryllium – A Challenge for Preparation and Mechanical Characterization. *Praktische Metallographie/Practical Metallography*, **2019**, 56, 624-633 0.3
- 2 The Phase Transformation of Silicon Assessed by an Unloading Contact Pressure Approach. *Jom*, 1 2.1
- 1 30 Years of OliverBharr: Then, Now and the Future of Nanoindentation. *Jom*, 1 2.1