

Ulrike Cihak-Bayr

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

320
citations

840776

11
h-index

996975

15
g-index

16
all docs

16
docs citations

16
times ranked

241
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An analysis method for atomistic abrasion simulations featuring rough surfaces and multiple abrasive particles. <i>Computer Physics Communications</i> , 2014, 185, 2456-2466. | 7.5 | 43 |
| 2 | Experimental simulation of high temperature sliding contact of hot rolled steel. <i>Tribology International</i> , 2016, 93, 745-754. | 5.9 | 33 |
| 3 | Thermostat Influence on the Structural Development and Material Removal during Abrasion of Nanocrystalline Ferrite. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13713-13725. | 8.0 | 33 |
| 4 | Unraveling and Mapping the Mechanisms for Near-Surface Microstructure Evolution in CuNi Alloys under Sliding. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32197-32208. | 8.0 | 32 |
| 5 | Characterization of residual stresses in turbine discs by neutron and high-energy X-ray diffraction and comparison to finite element modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 437, 75-82. | 5.6 | 29 |
| 6 | Characterisation of orange peel on highly polished steel surfaces. <i>Surface Engineering</i> , 2015, 31, 519-525. | 2.2 | 25 |
| 7 | Wear of different material pairings for the cylinder liner " piston ring contact. <i>Industrial Lubrication and Tribology</i> , 2018, 70, 687-699. | 1.3 | 25 |
| 8 | High plastically deformed sub-surface tribozones in sliding experiments. <i>Wear</i> , 2014, 309, 11-20. | 3.1 | 20 |
| 9 | Evolution of topography and material removal during nanoscale grinding. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 465308. | 2.8 | 19 |
| 10 | Methods for atomistic abrasion simulations of laterally periodic polycrystalline substrates with fractal surfaces. <i>Computer Physics Communications</i> , 2017, 212, 100-112. | 7.5 | 17 |
| 11 | Interfacial Microstructure Evolution Due to Strain Path Changes in Sliding Contacts. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24288-24301. | 8.0 | 14 |
| 12 | Examination of undisturbed acoustic emission generated by experimentally modelled two-body abrasive wear events. <i>Tribology International</i> , 2020, 141, 105912. | 5.9 | 11 |
| 13 | Characterization of Residual Stresses in Compressor Discs for Aeroengines. <i>Advanced Engineering Materials</i> , 2006, 8, 1088-1092. | 3.5 | 9 |
| 14 | Primary calibration by reciprocity method of high-frequency acoustic-emission piezoelectric transducers. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 3557-3562. | 1.1 | 4 |
| 15 | Diffraction-Based Residual Stress Analysis Applied to Problems in the Aircraft Industry. <i>Advanced Engineering Materials</i> , 2007, 9, 627-638. | 3.5 | 3 |
| 16 | Characterization of Residual Stresses in 718 Turbine Discs by Neutron Diffraction and Finite Element Modelling. <i>Advanced Materials Research</i> , 0, 278, 102-107. | 0.3 | 3 |