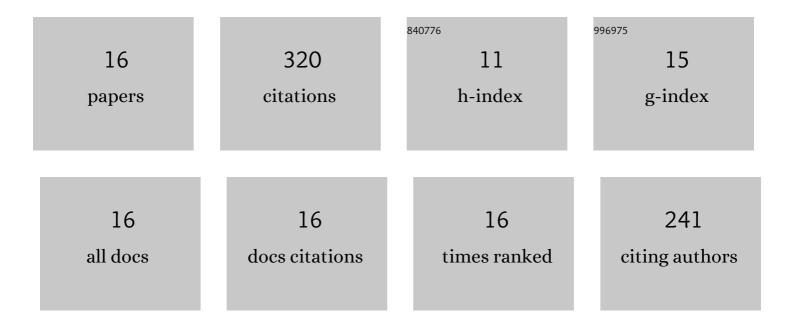
## Ulrike Cihak-Bayr

List of Publications by Year in descending order

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HIDIKE CIHAK-RAVD

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