Gaylord Guillonneau

List of Publications by Year
in descending order

14	312	933447 10	1058476 14
papers	citations	h-index	g-index

16	16	16	336
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanomechanical testing at high strain rates: New instrumentation for nanoindentation and microcompression. Materials and Design, 2018, 148, 39-48.	7.0	65
2	Determination of mechanical properties by nanoindentation independently of indentation depth measurement. Journal of Materials Research, 2012, 27, 2551-2560.	2.6	53
3	Brittle to ductile transition of tribomaterial in relation to wear response at high temperatures. Wear, 2017, 392-393, 60-68.	3.1	47
4	Comparison of In Situ Micromechanical Strain-Rate Sensitivity Measurement Techniques. Jom, 2015, 67, 1684-1693.	1.9	35
5	Microstructural and micromechanical investigations of surface strengthening mechanisms induced by repeated impacts on pure iron. Materials and Design, 2018, 147, 56-64.	7.0	21
6	In situ characterization of AA1050 recrystallization kinetics using high temperature nanoindentation testing. Materials and Design, 2018, 152, 22-29.	7.0	18
7	The formation of a cobalt-based glaze layer at high temperature: A layered structure. Wear, 2019, 440-441, 203101.	3.1	16
8	Indentation creep vs. indentation relaxation: A matter of strain rate definition?. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 781, 139246.	5.6	15
9	High temperature impact testing of a thin hard coating using a novel high-frequency in situ micromechanical device. Surface and Coatings Technology, 2018, 333, 178-186.	4.8	11
10	Theoretical and experimental analysis of indentation relaxation test. Journal of Materials Research, 2017, 32, 2286-2296.	2.6	10
11	High-Temperature Scanning Indentation: A new method to investigate in situ metallurgical evolution along temperature ramps. Journal of Materials Research, 2021, 36, 2383-2396.	2.6	10
12	Determination of the true projected contact area by in situ indentation testing. Journal of Materials Research, 2019, 34, 2859-2868.	2.6	7
13	Real-time high-temperature scanning indentation: Probing physical changes in thin-film metallic glasses. Applied Materials Today, 2021, 24, 101126.	4.3	2
14	Plastic Flow Under Shear-Compression at the Micron Scale-Application on Amorphous Silica at High Strain Rate. Jom, 2022, 74, 2231-2237.	1.9	0