Fabian PÃ¶hl

List of Publications by Year
in descending order

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17	336	840776 11	888059 17
papers	citations	h-index	g-index

18	18	18	337
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Local deformation and transformation behavior of retained austenite in 18CrNiMo7-6 after high-carbon carburizing treatment. Materials Characterization, 2020, 167, 110446.	4.4	8
2	Orientation-Dependent Deformation Behavior of 316L Steel Manufactured by Laser Metal Deposition and Casting under Local Scratch and Indentation Load. Materials, 2020, 13, 1765.	2.9	8
3	Cavitation erosion resistance of 316L austenitic steel processed by selective laser melting (SLM). Additive Manufacturing, 2019, 29, 100786.	3.0	18
4	Pop-in behavior and elastic-to-plastic transition of polycrystalline pure iron during sharp nanoindentation. Scientific Reports, 2019, 9, 15350.	3.3	69
5	Deformation behavior and dominant abrasion micro mechanisms of tempering steel with varying carbon content under controlled scratch testing. Wear, 2019, 422-423, 212-222.	3.1	13
6	Microstructural Analysis of Powder Metallurgy Tool Steels in the Context of Abrasive Wear Behavior: A New Computerized Approach to Stereology. Journal of Materials Engineering and Performance, 2019, 28, 2919-2936.	2.5	15
7	Determination of unique plastic properties from sharp indentation. International Journal of Solids and Structures, 2019, 171, 174-180.	2.7	21
8	A Methodology for Inverse Determination of Stress-strain Curves Based on Spherical Indentation. Experimental Techniques, 2018, 42, 343-353.	1.5	4
9	Micro-Magnetic and Microstructural Characterization of Wear Progress on Case-Hardened 16MnCr5 Gear Wheels. Materials, 2018, 11, 2290.	2.9	17
10	Numerical simulation of the deformation behavior of metallic materials under cavitation induced load in the incubation period. Wear, 2017, 376-377, 1138-1146.	3.1	6
11	Effect of matrix and hard phase properties on the scratch and compound behavior of wear resistant metallic materials containing coarse hard phases. Wear, 2017, 376-377, 947-957.	3.1	11
12	Correlation between cavitation erosion resistance and cyclic mechanical properties of different metallic materials. Journal of Physics: Conference Series, 2017, 843, 012037.	0.4	3
13	Detection of the indentation-size-effect (ISE) and surface hardening by analysis of the loading curvature C. International Journal of Solids and Structures, 2016, 84, 160-166.	2.7	19
14	Influence of crystallographic orientation on cavitation erosion resistance of high interstitial CrMnCN austenitic stainless steels. Tribology International, 2016, 95, 66-75.	5.9	35
15	Evaluation of cavitation-induced pressure loads applied to material surfaces by finite-element-assisted pit analysis and numerical investigation of the elasto-plastic deformation of metallic materials. Wear, 2015, 330-331, 618-628.	3.1	49
16	Indentation of self-similar indenters: An FEM-assisted energy-based analysis. Journal of the Mechanics and Physics of Solids, 2014, 66, 32-41.	4.8	25
17	Finite element method-assisted acquisition of the matrix influence on the indentation results of an embedded hard phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 822-828.	5.6	14