

Fabian PÃ¶hl

List of Publications by Year in descending order

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17
papers

336
citations

840776

11
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888059

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18
docs citations

18
times ranked

337
citing authors

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