Jana Hornikova

List of Publications by Year
in descending order

32	167	1307594 7	1199594 12
papers	citations	h-index	g-index

32	32	32	140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temperature Dependence of Fracture Characteristics of Variously Heat-Treated Grades of Ultra-High-Strength Steel: Experimental and Modelling. Materials, 2021, 14, 5875.	2.9	2
2	Determination of Ramberg-Osgood approximation for estimation of low-temperature fracture toughness. AIP Conference Proceedings, 2020, , .	0.4	1
3	Fatigue Life of 7475-T7351 Aluminum After Local Severe Plastic Deformation Caused by Machining. Materials, 2019, 12, 3605.	2.9	9
4	Local and equivalent stress intensity factors for tortuous cracks under remote mode II loading. Theoretical and Applied Fracture Mechanics, 2019, 101, 35-45.	4.7	5
5	Grain boundary segregation of elements of groups 14 and 15 and its consequences for intergranular cohesion of ferritic iron. Journal of Materials Science, 2017, 52, 5822-5834.	3.7	11
6	Analysis of powder steel material, laser sintering technology and machining on surface parameters and fatigue. Materialwissenschaft Und Werkstofftechnik, 2017, 48, 820-830.	0.9	1
7	Determination of local stress intensity factors at microstructurally tortuous crack fronts under remote mode II loading. Procedia Structural Integrity, 2017, 7, 254-261.	0.8	0
8	A Fractographic Study of Bending/Torsion Fatigue Failure in Metallic Materials with Protective Surface Layers. Advances in Materials Science and Engineering, 2016, 2016, 1-6.	1.8	3
9	On the segregation behavior of tin and antimony at grain boundaries of polycrystalline bcc iron. Applied Surface Science, 2016, 363, 140-144.	6.1	15
10	Analysis of fatigue crack propagation under mixed mode II+III in ARMCO iron. International Journal of Fatigue, 2015, 76, 47-52.	5.7	22
11	Modeling Load-displacement Curve and Pop-in Effect in Nanoindentation Tests. , 2014, 3, 1111-1116.		2
12	Description of Fatigue Crack Growth under Modes II, III and II+III in Terms of J-integral. , 2014, 3, 835-840.		5
13	K-calibration of special specimens for mode II, III and II+III crack growth. Engineering Fracture Mechanics, 2013, 110, 430-437.	4.3	8
14	Fatigue life of cast Inconel 713LC with/without protective diffusion coating under bending, torsion and their combination. Engineering Fracture Mechanics, 2013, 110, 459-467.	4.3	21
15	Comparison of fatigue criteria for combined bending-torsion loading of nitrided and virgin specimens. Strength of Materials, 2008, 40, 64-66.	0.5	4
16	Multiscale modelling of nanoindentation test in copper crystal. Engineering Fracture Mechanics, 2008, 75, 3755-3762.	4.3	9
17	Onset of Microplasticity in Copper Crystal during Nanoindentation. Key Engineering Materials, 2007, 348-349, 801-804.	0.4	2
18	Computation of Effective Fatigue Thresholds Based on a New Concept of Crack Closure. Key Engineering Materials, 2006, 324-325, 803-806.	0.4	1

#	Article	IF	Citations
19	On the Crack Tip Shielding in Particle Reinforced Composites. Materials Science Forum, 2005, 482, 311-314.	0.3	1
20	Statistical approach to roughnessâ€induced shielding effects. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 141-157.	3.4	25
21	Assessment of Extrinsic Crack Tip Shielding in Austenitic Steel near Fatigue Threshold. Key Engineering Materials, 0, 385-387, 49-52.	0.4	3
22	Linear-Elastic and Elastoplastic Mode II and III Crack Tip Stress-Strain Fields in Cylindrical Specimens with Circumferential Crack. Key Engineering Materials, 0, 417-418, 321-324.	0.4	2
23	Stress Intensity Factors for Surface Semi-Elliptical Crack in Cylindrical Specimen under Combined Torsion and Axial Compression. Key Engineering Materials, 0, 452-453, 673-676.	0.4	0
24	Geometrical Shielding Produced by Intergranular Crack-Tip Branching in Feâ€“Vâ€“P Alloy. Key Engineering Materials, 0, 465, 574-577.	0.4	0
25	Comparison of Solutions of Stress Field Based on Hertzian and Combined Numerical-Crystallographic Approaches Beneath Nanoindenter. Key Engineering Materials, 0, 488-489, 395-398.	0.4	1
26	Bending Fatigue Behaviour of Diffusion and Thermal Barrier Coating Systems. Key Engineering Materials, 0, 592-593, 716-719.	0.4	1
27	Specimens for Simultaneous Mode II, III and II+III Fatigue Crack Propagation: Elasto-Plastic Solution of Crack Tip Stress-Strain Field. Advanced Materials Research, 0, 891-892, 1585-1590.	0.3	6
28	Description of Fatigue Crack Propagation under Mixed-Mode II+III in Terms of J-Integral. Key Engineering Materials, 0, 627, 145-148.	0.4	1
29	Numerical Fracture Analysis of Compact Tension Shear (CTS) Specimens with Tortuous Crack Fronts. Key Engineering Materials, 0, 665, 77-80.	0.4	1
30	Stress Intensity Factors for Cracks Emanating from a Notch under Shear-Mode Loading. Key Engineering Materials, 0, 774, 48-53.	0.4	2
31	Stress Intensity Factors for Rough Cracks Loaded in Mode II. Solid State Phenomena, 0, 258, 310-313.	0.3	3
32	Analysis of Roughness-Induced Crack-Tip Shielding in Terms of Size Ratio Effect. , 0, , 491-491-15.		0