

Rajwinder Singh

List of Publications by Year in descending order

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14
papers

152
citations

1307594

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1199594

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docs citations

14
times ranked

152
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of stable stacking fault energy and crystal orientation on fracture behaviour of thin metallic single crystals. <i>Philosophical Magazine</i> , 2021, 101, 929-963.	1.6	1
2	On the transition of fracture toughness in metallic materials with thickness: An atomistic viewpoint. <i>Computational Materials Science</i> , 2020, 171, 109268.	3.0	8
3	In-situ investigations of hydrogen influenced crack initiation and propagation under tensile and low cycle fatigue loadings in RPV steel. <i>Journal of Nuclear Materials</i> , 2020, 529, 151912.	2.7	19
4	Effect of microstructural features on short fatigue crack growth behaviour in SA508 Grade 3 Class I low alloy steel. <i>International Journal of Pressure Vessels and Piping</i> , 2020, 185, 104136.	2.6	10
5	Quantitative assessment of morphology and sub-cellular changes in macrophages and trophoblasts during inflammation. <i>Biomedical Optics Express</i> , 2020, 11, 3733.	2.9	7
6	Hydrogen induced blister cracking and mechanical failure in X65 pipeline steels. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22039-22049.	7.1	48
7	Effect of hydrogen on short crack propagation in SA508 Grade 3 Class I low alloy steel under cyclic loading. <i>Procedia Structural Integrity</i> , 2019, 14, 930-936.	0.8	4
8	Role of stress triaxiality on ductile versus brittle fracture in pre-cracked FCC single crystals: an atomistic study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 055007.	2.0	12
9	Role of prior austenite grain boundaries in short fatigue crack growth in hydrogen charged RPV steel. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 171, 242-252.	2.6	16
10	Crystal Orientation Effect on SIF in Single Crystals: A Study Based on Coupled Framework of XFEM and Crystal Plasticity Model. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 457-471.	0.4	1
11	Tracking hydrogen embrittlement using short fatigue crack behavior of metals. <i>Procedia Structural Integrity</i> , 2018, 13, 1427-1432.	0.8	4
12	Multi-modal chip-based fluorescence and quantitative phase microscopy for studying inflammation in macrophages. <i>Optics Express</i> , 2018, 26, 19864.	3.4	18
13	On the transition of short cracks into long fatigue cracks in reactor pressure vessel steels. <i>MATEC Web of Conferences</i> , 2018, 165, 13001.	0.2	4
14	Crack growth analysis of room temperature rolled (RTR) 6351 Al alloys by XFEM. <i>International Journal of Microstructure and Materials Properties</i> , 2015, 10, 239.	0.1	0