

Rajwinder Singh

List of Publications by Year in descending order

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14
papers

152
citations

1307594

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h-index

1199594

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g-index

14
all docs

14
docs citations

14
times ranked

152
citing authors

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