Jalaj Kumar

List of Publications by Year
in descending order

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25	255	1040056	996975
papers	citations	9	15
		h-index	g-index

25	25	25	212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of cyclic heat treatment and swaging on mechanical properties of the tungsten heavy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 656, 256-265.	5.6	42
2	Stress triaxiality effect on fracture behavior of IMI-834 titanium alloy: A micromechanics approach. Materials & Design, 2009, 30, 1118-1123.	5.1	22
3	Characterization of fracture and deformation mechanism in a high strength beta titanium alloy Ti-10-2-3 using EBSD technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 623, 49-58.	5.6	22
4	Acoustic Emission During Tensile Deformation of Smooth and Notched Specimens of Near Alpha Titanium Alloy. Research in Nondestructive Evaluation, 2012, 23, 17-31.	1.1	19
5	Acoustic emission studies for characterization of fatigue crack growth behavior in HSLA steel. Nondestructive Testing and Evaluation, 2016, 31, 77-96.	2.1	15
6	Creep-fatigue damage simulation at multiple length scales for an aeroengine titanium alloy. International Journal of Fatigue, 2018, 116, 505-512.	5.7	14
7	A polygonal FEM and continuum damage mechanics based framework for stochastic simulation of fatigue life scatter in duplex microstructure titanium alloys. Mechanics of Materials, 2021, 163, 104071.	3.2	14
8	Thermographic studies on IMI-834 titanium alloy during tensile loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 496, 303-307.	5.6	12
9	Evolution of Damage in Near Î± IMI-834 Titanium Alloy Under Monotonic Loading Condition: A Continuum Damage Mechanics Approach. Journal of Engineering Materials and Technology, Transactions of the ASME, 2009, 131, .	1.4	10
10	Microtexture Analysis and Modeling of Ambient Fatigue and Creep-Fatigue Damages in Ti-6Al-4V Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 648-658.	2.2	10
11	High-temperature low cycle fatigue damage assessment in near alpha IMI-834 titanium alloy. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 131-138.	3.4	8
12	Simulation of elevated temperature fatigue damage evolution using the finite element method for near alpha titanium alloy. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 466-474.	3.4	8
13	A Microstructure Based Elasto-Plastic Polygonal FEM and CDM Approach to Evaluate LCF Life in Titanium Alloys. International Journal of Mechanical Sciences, 2022, 225, 107356.	6.7	8
14	Damage micromechanisms in IMI-834 titanium alloy: Stress triaxiality effects. Transactions of the Indian Institute of Metals, 2008, 61, 415-417.	1.5	7
15	Analysis and Modeling of Thermal Signatures for Fatigue Damage Characterization in Tiâ€“6Alâ€“4V Titanium Alloy. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	7
16	Creepâ€“Fatigue Interactions in Ti-6Al-4V Alloy at Ambient Temperature. Transactions of the Indian Institute of Metals, 2016, 69, 349-352.	1.5	7
17	Acoustic Emission Study on Effect of Stress Triaxiality on Damage Micromechanisms in Near Alpha Titanium Alloy. Journal of Nondestructive Evaluation, 2009, 28, 85-90.	2.4	6
18	Observation of Etch-Pits and LAGB Configurations During Ambient Creep of Ti-6Al-4V Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2560-2565.	2.2	6

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19	Creep-fatigue damage modeling in Ti-6Al-4V alloy: A mechanistic approach. International Journal of Fatigue, 2017, 98, 62-67.	5.7	6
20	Damage Assessment of 2.5D C/SiC Ceramic Matrix Composite: Effect of Fibre Off-Axis Orientation. Transactions of the Indian Institute of Metals, 2020, 73, 999-1006.	1.5	5
21	Ambient and high temperature in situ damage evolution in nickel based IN 718 super alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4009-4013.	5.6	4
22	Strain rate effect on deformation kinetics: Infrared radiation thermography application. Materials Science and Technology, 2011, 27, 132-135.	1.6	1
23	Failure of Locking Wires of an Aeroengine Component: Attributed Primarily to Over-twisting and Secondarily to Engine Vibration and Improper Material Selection. Journal of Failure Analysis and Prevention, 2019, 19, 890-902.	0.9	1
24	Variability in Fatigue Life of Near-Î± Titanium Alloy IMI 834. Transactions of the Indian Institute of Metals, 2021, 74, 979-989.	1.5	1
25	Monitoring of Elastoplastic Fracture Behavior of HSLA Steel Using Acoustic Emission Testing. Materials Evaluation, 2021, 79, 383-390.	0.2	0