

# Arun Raina

## List of Publications by Year in descending order

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19  
papers

627  
citations

1163065

8  
h-index

1199563

12  
g-index

19  
all docs

19  
docs citations

19  
times ranked

641  
citing authors

#	ARTICLE	IF	CITATIONS
1	Volume dependent fracture energy and brittle to quasi-brittle transition in intermetallic alloys. <i>Engineering Fracture Mechanics</i> , 2022, 264, 108312.	4.3	4
2	Porosity analysis in SiC/SiC ceramic matrix composites. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000202.	0.2	0
3	Analysis of thermal desorption of hydrogen in metallic alloys. <i>Acta Materialia</i> , 2018, 144, 777-785.	7.9	27
4	Effects of anisotropy and regime of diffusion on the measurement of lattice diffusion coefficient of hydrogen in metals. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170677.	2.1	2
5	Analysis of electro-permeation of hydrogen in metallic alloys. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160409.	3.4	12
6	A phase-field model for chemo-mechanical induced fracture in lithium-ion battery electrode particles. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 106, 683-711.	2.8	114
7	Phase field modeling of ductile fracture at finite strains: A variational gradient-extended plasticity-damage theory. <i>International Journal of Plasticity</i> , 2016, 84, 1-32.	8.8	258
8	A phase-field model for fracture in biological tissues. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 479-496.	2.8	72
9	Rupture in soft biological tissues modeled by a phase-field method. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015, 15, 103-104.	0.2	0
10	Ductile failure with gradient plasticity coupled to the phase-field fracture at finite strains. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015, 15, 271-272.	0.2	0
11	A micromechanical model with strong discontinuities for failure in nonwovens at finite deformations. <i>International Journal of Solids and Structures</i> , 2015, 75-76, 247-259.	2.7	17
12	Failure in anisotropic nonwoven materials at finite deformation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014, 14, 377-378.	0.2	0
13	A homogenization approach for nonwoven materials based on fiber undulations and reorientation. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 65, 12-34.	4.8	57
14	A strong discontinuity approach on multiple levels to model solids at failure. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 253, 558-583.	6.6	57
15	Modeling reorientation phenomena in nonwoven materials with random fiber network microstructure. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2013, 13, 249-250.	0.2	0
16	Modeling quasi-static crack growth with the embedded finite element method on multiple levels. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2012, 12, 135-136.	0.2	0
17	A strong discontinuity based adaptive refinement approach for the modeling of crack branching. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 171-172.	0.2	1
18	Modeling crack micro-branching using finite elements with embedded strong discontinuities. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2010, 10, 681-684.	0.2	4

#	ARTICLE	IF	CITATIONS
19	Size-Dependent Fracture Characteristics of Intermetallic Alloys. Experimental Mechanics, 0, , 1.	2.0	2