Chunwang He

List of Publications by Year
in descending order

13 papers	423 citations	933447 10 h-index	1125743 13 g-index
13 all docs	13 docs citations	13 times ranked	199 citing authors

#	Article	IF	Citations
1	A multiscale elasto-plastic damage model for the nonlinear behavior of 3D braided composites. Composites Science and Technology, 2019, 171, 21-33.	7.8	105
2	A coupled elastic-plastic damage model for the mechanical behavior of three-dimensional (3D) braided composites. Composites Science and Technology, 2018, 157, 86-98.	7.8	90
3	A hierarchical multiscale model for the elastic-plastic damage behavior of 3D braided composites at high temperature. Composites Science and Technology, 2020, 196, 108230.	7.8	66
4	A data-driven self-consistent clustering analysis for the progressive damage behavior of 3D braided composites. Composite Structures, 2020, 249, 112471.	5.8	32
5	A constitutive model for elastoplastic-damage coupling effect of unidirectional fiber-reinforced polymer matrix composites. Composites Part A: Applied Science and Manufacturing, 2020, 130, 105736.	7.6	24
6	Yield and failure theory for unidirectional polymer-matrix composites. Composites Part B: Engineering, 2019, 164, 612-619.	12.0	23
7	The effects of fiber radius and fiber shape deviations and of matrix void content on the strengths and failure mechanisms of UD composites by computational micromechanics. Composites Science and Technology, 2022, 218, 109139.	7.8	18
8	From microscale to mesoscale: The non-linear behavior prediction of 3D braided composites based on the SCA2 concurrent multiscale simulation. Composites Science and Technology, 2021, 213, 108947.	7.8	16
9	A damage-induced short-circuit diffusion model applied to the oxidation calculation of ceramic matrix composites (CMCs). Composites Part A: Applied Science and Manufacturing, 2019, 127, 105621.	7.6	12
10	Effect of thermal residual stress on the tensile properties and damage process of C/SiC composites at high temperatures. Ceramics International, 2022, 48, 3109-3124.	4.8	11
11	A concurrent three-scale scheme FE-SCA^2 for the nonlinear mechanical behavior of braided composites. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114827.	6.6	11
12	Concurrent n-scale modeling for non-orthogonal woven composite. Computational Mechanics, 2022, 70, 853-866.	4.0	11
13	Progressive damage and failure analysis of three-dimensional braided composites under multiaxial loadings. International Journal of Solids and Structures, 2022, 254-255, 111853.	2.7	4