

Yang Chen

List of Publications by Year in descending order

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13
papers

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citations

1040056

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1199594

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13
docs citations

13
times ranked

348
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing plating-induced cracking in lithium-anode solid-electrolyte cells. <i>Nature Materials</i> , 2021, 20, 1121-1129.	27.5	221
2	A FFT solver for variational phase-field modeling of brittle fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 349, 167-190.	6.6	62
3	Analysis of the damage initiation in a SiC/SiC composite tube from a direct comparison between large-scale numerical simulation and synchrotron X-ray micro-computed tomography. <i>International Journal of Solids and Structures</i> , 2019, 161, 111-126.	2.7	51
4	In situ X-ray tomography characterisation of 3D deformation of C/C-SiC composites loaded under tension. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106390.	7.6	22
5	In situ investigation of failure in 3D braided SiCf/SiC composites under flexural loading. <i>Composite Structures</i> , 2021, 270, 114067.	5.8	19
6	3D Detection and Quantitative Characterization of Cracks in a Ceramic Matrix Composite Tube Using X-Ray Computed Tomography. <i>Experimental Mechanics</i> , 2020, 60, 409-424.	2.0	17
7	Crack initiation and propagation in braided SiC/SiC composite tubes: Effect of braiding angle. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4403-4418.	5.7	17
8	Assessment of the fracture toughness of neutron-irradiated nuclear graphite by 3D analysis of the crack displacement field. <i>Carbon</i> , 2021, 171, 882-893.	10.3	17
9	FFT phase-field model combined with cohesive composite voxels for fracture of composite materials with interfaces. <i>Computational Mechanics</i> , 2021, 68, 433-457.	4.0	15
10	Crack propagation in fine grained graphites under mode I and mixed-mode loading, as observed in situ by microtomography. <i>Carbon</i> , 2022, 193, 356-367.	10.3	8
11	Fast Fourier transform solver for damage modeling of composite materials. <i>JMST Advances</i> , 2019, 1, 49-55.	1.9	7
12	Effect of irradiation swelling on the mechanical properties of unidirectional SiC/SiC composites: A numerical investigation at microstructural level. <i>Journal of Nuclear Materials</i> , 2022, 569, 153918.	2.7	7
13	Influence of voids presence on mechanical properties of 3D textile composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 406, 012006.	0.6	5