

# Yang Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

468  
citations

1040056

9  
h-index

1199594

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

348  
citing authors

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