

# Yingdong Song

## List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Synergetic effect of coating properties and fibrous architecture on stress evolution in plain-woven ceramic matrix composites. <i>Composite Interfaces</i> , 2022, 29, 141-159.	2.3	2
2	Micromechanical Analysis of SiC/Ti6Al4V Composite Under Complex Stress State. <i>Applied Composite Materials</i> , 2022, 29, 1083-1104.	2.5	4
3	A new compilation method of general standard test load spectrum for aircraft engine. <i>International Journal of Turbo and Jet Engines</i> , 2022, .	0.7	1
4	Strain localization and crack initiation behavior of a PM Ni-based superalloy: SEM&DIC characterization and crystal plasticity simulation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 1635-1651.	3.4	8
5	Stress Rupture Life Prediction Method for Notched Specimens Based on Minimum Average Von Mises Equivalent Stress. <i>Metals</i> , 2022, 12, 68.	2.3	4
6	Modeling the Effect of Oxidation on the Creep Behavior of SiC/PyC/SiC Mini-composites Under Wet Oxygen Atmosphere. <i>Applied Composite Materials</i> , 2021, 28, 297-319.	2.5	4
7	Prediction of stress&strain response of unidirectional ceramic matrix composites under arbitrary loading and unloading. <i>Advances in Applied Ceramics</i> , 2021, 120, 84-94.	1.1	0
8	Towards a comprehensive understanding of distortion in additive manufacturing based on assumption of constraining force. <i>Virtual and Physical Prototyping</i> , 2021, 16, S85-S97.	10.4	20
9	In situ investigation of tensile behavior of C f /SiC mini composites. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1677-1690.	2.1	1
10	The Constitutive Model of a Unidirectional SiC Fiber-Reinforced Titanium Matrix Composite During Spectrum Loading. <i>Applied Composite Materials</i> , 2021, 28, 1019-1037.	2.5	2
11	Size Effect of Strength for SiC/SiC Composites: Experimental Study and Theoretical Analysis. <i>Applied Composite Materials</i> , 2021, 28, 1381.	2.5	0
12	A Progressive Oxidative Damage Model of C/SiC Composites under Stressed Oxidation Environments. <i>Applied Composite Materials</i> , 2021, 28, 1609.	2.5	0
13	Simulating the corrosion and microstructure evolution of SiCf/PyC/SiCm composites in a humid oxygen environment. <i>Composite Interfaces</i> , 2021, 28, 1081-1107.	2.3	6
14	XFEM analysis of crack propagation in fiber-reinforced ceramic matrix composites with different interphase thicknesses. <i>Composite Interfaces</i> , 2020, 27, 327-340.	2.3	13
15	Simulation of tension-compression hysteresis loop of an unidirectionally SiC fiber-reinforced titanium matrix composite. <i>Composite Interfaces</i> , 2020, 27, 795-813.	2.3	9
16	A model for predicting residual stiffness of unidirectional SiC/SiC composite under stress oxidation environment. <i>Composite Interfaces</i> , 2020, 27, 753-775.	2.3	1
17	Modeling the effect of oxidation on the residual tensile strength of SiC/C/SiC minicomposites in stressed oxidizing environments. <i>Journal of Materials Science</i> , 2020, 55, 3388-3407.	3.7	8
18	Prediction model of matrix crack density in ceramic matrix composites under arbitrary matrix stress distribution. <i>Mechanics of Advanced Materials and Structures</i> , 2020, , 1-8.	2.6	3

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19	Thermal Stress Analysis of Environmental Barrier Coatings Considering Interfacial Roughness. Coatings, 2020, 10, 947.	2.6	6
20	Modeling Thermal Expansion Behavior of 2.5 D C/SiC Composites in Air Oxidizing Environments between 400 Å°C and 800 Å°C. Applied Composite Materials, 2020, 27, 861-875.	2.5	1
21	A new creep model and its application in the evaluation of creep properties of a titanium alloy at 500 Å°C. Journal of Mechanical Science and Technology, 2020, 34, 2317-2326.	1.5	6
22	Modeling the Failure Time and Residual Strength of C/SiC Composites under Stress-Oxidation Environment. Transactions of the Indian Ceramic Society, 2020, 79, 212-220.	1.0	3
23	Multiscale acoustic emission of C/SiC mini-composites and damage identification using pattern recognition. Science and Engineering of Composite Materials, 2020, 27, 148-162.	1.4	6
24	An investigation of small fatigue crack behavior in titanium alloy TC4 under different stress levels. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5567-5578.	1.3	5
25	Fatigue Hysteresis Loops Simulation of SiCf /Ti Composites under Two-Stage Cyclic Loading. Applied Composite Materials, 2019, 26, 1041-1057.	2.5	6
26	Strength properties and its dispersion of 2.5D-C/SiC composites. Mechanics Based Design of Structures and Machines, 2019, 47, 283-301.	4.7	3
27	Fatigue strength predictions of FOD dents using $\hat{\sigma}$ K threshold methods considering residual stresses. Journal of Mechanical Science and Technology, 2019, 33, 213-224.	1.5	4
28	Axial Tensile Failure Analysis of SiCf/Ti Composite Based on Continuum Cohesive Zone Model. Journal of Materials Engineering and Performance, 2019, 28, 956-966.	2.5	4
29	In-Plane shear damage behaviours of 2D needled C/SiC composites. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 454-465.	3.4	8
30	In Situ Strength Model for Continuous Fibers and Multi-Scale Modeling the Fracture of C/SiC Composites. Applied Composite Materials, 2019, 26, 357-370.	2.5	12
31	Failure Modeling of SiC/SiC Mini-Composites in Air Oxidizing Environments. Applied Composite Materials, 2018, 25, 1441-1454.	2.5	5
32	Parameters Identification of Interface Friction Model for Ceramic Matrix Composites Based on Stress-Strain Response. Applied Composite Materials, 2018, 25, 1057-1073.	2.5	4
33	A New Adaptive Response Surface Model for Reliability Analysis of 2.5D C/SiC Composite Turbine Blade. Applied Composite Materials, 2018, 25, 1075-1091.	2.5	2
34	Transverse Tensile Properties of 3 Dimension-4 Directional Braided Cf/SiC Composite Based on Double-Scale Model. Applied Composite Materials, 2018, 25, 1001-1019.	2.5	5
35	Comparative study of small crack growth behavior between specimens with and without machining-induced residual stress of alloy GH4169. Journal of Mechanical Science and Technology, 2018, 32, 5251-5261.	1.5	10
36	Micro-XCT-based finite element method for predicting the elastic modulus of needle carbon-fiber-reinforced ceramic matrix composites. Science and Engineering of Composite Materials, 2017, 24, 1-11.	1.4	5

#	ARTICLE	IF	CITATIONS
37	Fatigue Hysteresis Behavior of 2.5D Woven C/SiC Composites: Theory and Experiments. Applied Composite Materials, 2017, 24, 1387-1403.	2.5	6
38	Simulation of Degraded Properties of 2D plain Woven C/SiC Composites under Preloading Oxidation Atmosphere. Applied Composite Materials, 2017, 24, 1287-1307.	2.5	5
39	Effect of notch geometry on the fatigue strength and critical distance of TC4 titanium alloy. Journal of Mechanical Science and Technology, 2017, 31, 4727-4737.	1.5	18
40	Design Optimization Method for Composite Components Based on Moment Reliability-Sensitivity Criteria. International Journal of Turbo and Jet Engines, 2017, 34, .	0.7	3
41	Tensile properties of 3-Dimension-4-directional braided Cf/SiC composite based on double-scale model. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1271-1279.	1.0	1
42	Numerical Modeling of Oxidized 2D C/SiC Composites in Air Environments Below 900°C: Microstructure and Elastic Properties. Applied Composite Materials, 2016, 23, 761-781.	2.5	2
43	Simulation of Mechanical Behaviors of Ceramic Composites Under Stress-Oxidation Environment While Considering the Effect of Matrix Cracks. Applied Composite Materials, 2016, 23, 477-494.	2.5	13
44	Effect of the stress level on the fatigue strengthening behavior of 2D needled C/SiC CMCs at room temperature. Materials and Design, 2016, 89, 432-438.	7.0	28
45	Elastic modulus prediction of three-dimension-4 directional braided Cf/SiC composite based on double-scale model. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 500-508.	1.0	8
46	Distribution of slip regions on the fiber-matrix interface of ceramic matrix composites under arbitrary loading. Journal of Reinforced Plastics and Composites, 2015, 34, 1713-1723.	3.1	18
47	Micro-XCT-based finite element method for prediction of elastic modulus of plane woven carbon fiber-reinforced ceramic matrix composites. Journal of Composite Materials, 2015, 49, 3373-3385.	2.4	17
48	Verification and prediction of residual strength of C/SiC composites under non-stress oxidation. Journal of Materials Science, 2014, 49, 8192-8203.	3.7	10
49	Moment methods for C/SiC woven composite components reliability and sensitivity analysis. Science and Engineering of Composite Materials, 2014, 21, 121-128.	1.4	1
50	Effect of matrix cracking on hysteresis behavior of cross-ply ceramic matrix composites. Journal of Composite Materials, 2014, 48, 1505-1530.	2.4	30
51	Optimization and Reliability Analysis of 2.5D C/SiC Composites Turbine Stator Vane. Applied Composite Materials, 2014, 21, 789-803.	2.5	8
52	Analytical model of elastic modulus and coefficient of thermal expansion for 2.5D C/SiC composite. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 494-499.	1.0	9
53	Estimate Interface Shear Stress of Woven Ceramic Matrix Composites from Hysteresis Loops. Applied Composite Materials, 2013, 20, 993-1005.	2.5	46
54	An Approach to Estimate Interface Shear Stress of Ceramic Matrix Composites from Hysteresis Loops. Applied Composite Materials, 2010, 17, 309-328.	2.5	66

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55	Mechanical Modeling of Transverse Constitutive Relationship of Yarns in Plain-woven SiC/SiC Composites at the Mesoscale. Applied Composite Materials, 0, , 1.	2.5	0
56	An investigation of the nonlinear creep damage accumulation of different materials: Application of a novel damage model. Fatigue and Fracture of Engineering Materials and Structures, 0, , .	3.4	5