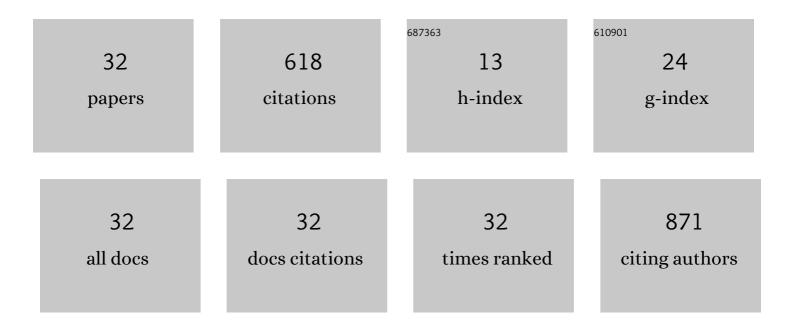
Weihua Xie

List of Publications by Year in descending order

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<u> \λ/ειμιιλ Χιε</u>

#	Article	IF	CITATIONS
1	Flexible Normalâ€Tangential Force Sensor with Opposite Resistance Responding for Highly Sensitive Artificial Skin. Advanced Functional Materials, 2018, 28, 1707503.	14.9	167
2	Enhanced Piezocapacitive Effect in CaCu ₃ Ti ₄ O ₁₂ –Polydimethylsiloxane Composited Sponge for Ultrasensitive Flexible Capacitive Sensor. ACS Applied Nano Materials, 2018, 1, 274-283.	5.0	54
3	High-temperature high-velocity impact on honeycomb sandwich panels. Composites Part B: Engineering, 2018, 138, 1-11.	12.0	33
4	Topology optimisations for integrated thermal protection systems considering thermo-mechanical constraints. Applied Thermal Engineering, 2019, 150, 995-1001.	6.0	31
5	High velocity impact tests on high temperature carbon-carbon composites. Composites Part B: Engineering, 2016, 98, 30-38.	12.0	28
6	Carbon Nanotubeâ€Modified Fabric for Wearable Smart Electronicâ€skin with Exclusive Normalâ€Tangential Force Sensing Ability. Advanced Materials Technologies, 2019, 4, 1800680.	5.8	28
7	Perforation of needle-punched carbon-carbon composites during high-temperature and high-velocity ballistic impacts. Composite Structures, 2020, 245, 112224.	5.8	27
8	Structure Redesign of the Integrated Thermal Protection System and Fuzzy Performance Evaluation. AIAA Journal, 2016, 54, 3598-3607.	2.6	25
9	Impact and blast performance enhancement in bio-inspired helicoidal structures: A numerical study. Journal of the Mechanics and Physics of Solids, 2020, 142, 104025.	4.8	25
10	Global sensitivity analysis of low-velocity impact response of bio-inspired helicoidal laminates. International Journal of Mechanical Sciences, 2020, 187, 106110.	6.7	21
11	Effective mitigation of the thermal short and expansion mismatch effects of an integrated thermal protection system through topology optimization. Composites Part B: Engineering, 2017, 118, 149-157.	12.0	18
12	Analysis and simulation of fracture behavior in naturally occurring Bouligand structures. Acta Biomaterialia, 2021, 135, 473-482.	8.3	15
13	Crack-driving force and toughening mechanism in crustacean-inspired helicoidal structures. International Journal of Solids and Structures, 2021, 208-209, 107-118.	2.7	14
14	ZrB2-CNTs Nanocomposites Fabricated by Spark Plasma Sintering. Materials, 2016, 9, 967.	2.9	13
15	GWFMM model for bi-modulus orthotropic materials: Application to mechanical analysis of 4D-C/C composites. Composite Structures, 2016, 150, 132-138.	5.8	13
16	Comparative Study of Structural Efficiencies of Typical Thermal Protection Concepts. AIAA Journal, 2017, 55, 2476-2480.	2.6	13
17	Development and validation of an anisotropic damage constitutive model for C/SiC composite. Ceramics International, 2018, 44, 22880-22889.	4.8	13
18	Predictive models and experiments for high-velocity and high-temperature impacts in Inconel-alloy panels. Materials and Design, 2019, 182, 108032.	7.0	11

Weihua Xie

#	Article	IF	CITATIONS
19	Uncertainty quantification method for mechanical behavior of C/SiC composite and its experimental validation. Composite Structures, 2019, 230, 111516.	5.8	11
20	The role of ply angle in interlaminar delamination properties of CFRP laminates. Mechanics of Materials, 2021, 160, 103928.	3.2	11
21	The damage-induced bi-modulus characteristic of C/SiC materials and experimental validation. Ceramics International, 2017, 43, 9171-9177.	4.8	10
22	Continuous gradient ceramic/polymer composite for application in large temperature gradient connection by a polymer-derived ceramic route. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105799.	7.6	10
23	Multi-fidelity uncertainty quantification method with application to nonlinear structural response analysis. Applied Mathematical Modelling, 2019, 75, 853-864.	4.2	6
24	Measurement of the Elastic Modulus and Residual Stress of Thermal Barrier Coatings Using a Digital Image Correlation Technique. Coatings, 2021, 11, 245.	2.6	5
25	Fabrication and Thermal Structural Characteristics of Ultra-high Temperature Ceramic Struts in Scramjets. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 375-380.	1.0	4
26	The connection technology based on high temperature silica fiber optic sensor. , 2012, , .		3
27	Measurement of the high-temperature strain of UHTC materials using chemical composition gratings. Measurement Science and Technology, 2016, 27, 055101.	2.6	3
28	The response of high-temperature optical fiber sensor applied to different materials. , 2013, , .		2
29	Numerical study on aerodynamic heat of hypersonic flight. Thermal Science, 2016, 20, 939-944.	1.1	2
30	Application of CCG Sensors to a High-Temperature Structure Subjected to Thermo-Mechanical Load. Sensors, 2016, 16, 1686.	3.8	1
31	Measurement of highâ€ŧemperature strains in superalloy and carbon/carbon composites using chemical composition gratings. Strain, 2017, 53, e12218.	2.4	1
32	Uncertainty Characterization Methods for Sparsely Sampled Quantity: A Tradeoff Analysis Considering Propagation. AIAA Journal, 2020, 58, 3129-3138.	2.6	0