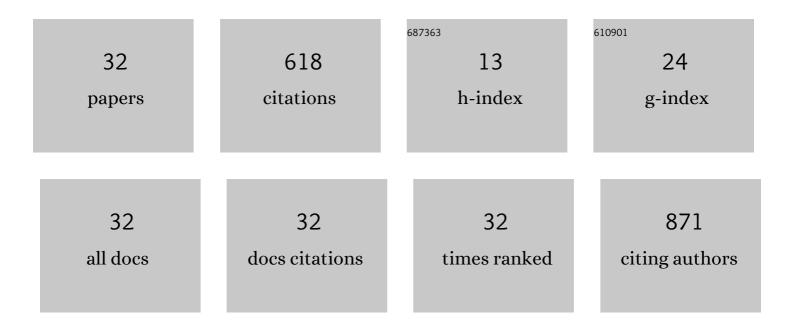
## Weihua Xie

List of Publications by Year in descending order

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Μειμια Χιε

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Crack-driving force and toughening mechanism in crustacean-inspired helicoidal structures.<br>International Journal of Solids and Structures, 2021, 208-209, 107-118.   | 2.7  | 14        |
| 2  | Measurement of the Elastic Modulus and Residual Stress of Thermal Barrier Coatings Using a Digital<br>Image Correlation Technique. Coatings, 2021, 11, 245.   | 2.6  | 5         |
| 3  | The role of ply angle in interlaminar delamination properties of CFRP laminates. Mechanics of Materials, 2021, 160, 103928.   | 3.2  | 11        |
| 4  | Analysis and simulation of fracture behavior in naturally occurring Bouligand structures. Acta<br>Biomaterialia, 2021, 135, 473-482.  | 8.3  | 15        |
| 5  | Global sensitivity analysis of low-velocity impact response of bio-inspired helicoidal laminates.<br>International Journal of Mechanical Sciences, 2020, 187, 106110.   | 6.7  | 21        |
| 6  | Uncertainty Characterization Methods for Sparsely Sampled Quantity: A Tradeoff Analysis<br>Considering Propagation. AIAA Journal, 2020, 58, 3129-3138.  | 2.6  | 0         |
| 7  | Continuous gradient ceramic/polymer composite for application in large temperature gradient<br>connection by a polymer-derived ceramic route. Composites Part A: Applied Science and<br>Manufacturing, 2020, 132, 105799.       | 7.6  | 10        |
| 8  | Perforation of needle-punched carbon-carbon composites during high-temperature and high-velocity ballistic impacts. Composite Structures, 2020, 245, 112224.  | 5.8  | 27        |
| 9  | Impact and blast performance enhancement in bio-inspired helicoidal structures: A numerical study.<br>Journal of the Mechanics and Physics of Solids, 2020, 142, 104025.  | 4.8  | 25        |
| 10 | Predictive models and experiments for high-velocity and high-temperature impacts in Inconel-alloy panels. Materials and Design, 2019, 182, 108032.  | 7.0  | 11        |
| 11 | Multi-fidelity uncertainty quantification method with application to nonlinear structural response analysis. Applied Mathematical Modelling, 2019, 75, 853-864.   | 4.2  | 6         |
| 12 | Uncertainty quantification method for mechanical behavior of C/SiC composite and its experimental validation. Composite Structures, 2019, 230, 111516.  | 5.8  | 11        |
| 13 | Topology optimisations for integrated thermal protection systems considering thermo-mechanical constraints. Applied Thermal Engineering, 2019, 150, 995-1001.   | 6.0  | 31        |
| 14 | Carbon Nanotubeâ€Modified Fabric for Wearable Smart Electronicâ€skin with Exclusive Normalâ€Tangential<br>Force Sensing Ability. Advanced Materials Technologies, 2019, 4, 1800680.   | 5.8  | 28        |
| 15 | Flexible Normalâ€Tangential Force Sensor with Opposite Resistance Responding for Highly Sensitive<br>Artificial Skin. Advanced Functional Materials, 2018, 28, 1707503.   | 14.9 | 167       |
| 16 | Enhanced Piezocapacitive Effect in<br>CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> –Polydimethylsiloxane Composited Sponge for<br>Ultrasensitive Flexible Capacitive Sensor. ACS Applied Nano Materials, 2018, 1, 274-283. | 5.0  | 54        |
| 17 | Fabrication and Thermal Structural Characteristics of Ultra-high Temperature Ceramic Struts in<br>Scramjets. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 375-380.                              | 1.0  | 4         |
| 18 | High-temperature high-velocity impact on honeycomb sandwich panels. Composites Part B:<br>Engineering, 2018, 138, 1-11.   | 12.0 | 33        |

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|----|--|------|-----------|
| 19 | Development and validation of an anisotropic damage constitutive model for C/SiC composite.<br>Ceramics International, 2018, 44, 22880-22889.  | 4.8  | 13        |
| 20 | 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        |
| 21 | The damage-induced bi-modulus characteristic of C/SiC materials and experimental validation.<br>Ceramics International, 2017, 43, 9171-9177.   | 4.8  | 10        |
| 22 | Comparative Study of Structural Efficiencies of Typical Thermal Protection Concepts. AIAA Journal, 2017, 55, 2476-2480.  | 2.6  | 13        |
| 23 | Measurement of highâ€ŧemperature strains in superalloy and carbon/carbon composites using chemical composition gratings. Strain, 2017, 53, e12218.   | 2.4  | 1         |
| 24 | ZrB2-CNTs Nanocomposites Fabricated by Spark Plasma Sintering. Materials, 2016, 9, 967.  | 2.9  | 13        |
| 25 | Application of CCG Sensors to a High-Temperature Structure Subjected to Thermo-Mechanical Load.<br>Sensors, 2016, 16, 1686.  | 3.8  | 1         |
| 26 | Structure Redesign of the Integrated Thermal Protection System and Fuzzy Performance Evaluation.<br>AIAA Journal, 2016, 54, 3598-3607.   | 2.6  | 25        |
| 27 | Measurement of the high-temperature strain of UHTC materials using chemical composition gratings.<br>Measurement Science and Technology, 2016, 27, 055101.   | 2.6  | 3         |
| 28 | High velocity impact tests on high temperature carbon-carbon composites. Composites Part B:<br>Engineering, 2016, 98, 30-38.   | 12.0 | 28        |
| 29 | 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        |
| 30 | Numerical study on aerodynamic heat of hypersonic flight. Thermal Science, 2016, 20, 939-944.  | 1.1  | 2         |
| 31 | The response of high-temperature optical fiber sensor applied to different materials. , 2013, , .  |      | 2         |
| 32 | The connection technology based on high temperature silica fiber optic sensor. , 2012, , .   |      | 3         |