

Wenfeng Hao

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,135
citations

471477

17
h-index

454934

30
g-index

68
all docs

68
docs citations

68
times ranked

845
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Preparation and characterization of 3D printed continuous carbon fiber reinforced thermosetting composites. <i>Polymer Testing</i> , 2018, 65, 29-34. | 4.8 | 224 |
| 2 | Experimental investigation on deformation and strength of carbon/epoxy laminated curved beams. <i>Polymer Testing</i> , 2012, 31, 520-526. | 4.8 | 99 |
| 3 | Effect of process parameters on mechanical properties of 3D printed PLA lattice structures. <i>Composites Part C: Open Access</i> , 2020, 3, 100076. | 3.2 | 48 |
| 4 | Acoustic emission monitoring of damage progression in 3D braiding composite shafts during torsional tests. <i>Composite Structures</i> , 2019, 208, 141-149. | 5.8 | 45 |
| 5 | Detection and monitoring of delamination in composite laminates using ultrasonic guided wave. <i>Composite Structures</i> , 2019, 225, 111161. | 5.8 | 43 |
| 6 | Clustering of AE signals collected during torsional tests of 3D braiding composite shafts using PCA and FCM. <i>Composites Part B: Engineering</i> , 2019, 161, 547-554. | 12.0 | 38 |
| 7 | Computational analysis of fatigue behavior of 3D 4-directional braided composites based on unit cell approach. <i>Advances in Engineering Software</i> , 2015, 82, 38-52. | 3.8 | 30 |
| 8 | Oxidation mechanism of ZrB ₂ /SiC ceramics based on phase-field model. <i>Composites Science and Technology</i> , 2012, 72, 1196-1202. | 7.8 | 29 |
| 9 | Experimental study on the fiber pull-out of composites using digital gradient sensing technique. <i>Polymer Testing</i> , 2015, 41, 239-244. | 4.8 | 29 |
| 10 | Experimental study on interaction between matrix crack and fiber bundles using optical caustic method. <i>Engineering Fracture Mechanics</i> , 2015, 134, 354-367. | 4.3 | 27 |
| 11 | State-of-charge and state-of-health estimation for lithium-ion battery using the direct wave signals of guided wave. <i>Journal of Energy Storage</i> , 2021, 39, 102657. | 8.1 | 27 |
| 12 | Effect of impact damage on the curved beam interlaminar strength of carbon/epoxy laminates. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 1189-1200. | 2.6 | 24 |
| 13 | Characterization of impact fatigue damage in CFRP composites using nonlinear acoustic resonance method. <i>Composite Structures</i> , 2020, 253, 112804. | 5.8 | 22 |
| 14 | A Unit-Cell Model for Predicting the Elastic Constants of 3D Four Directional Cylindrical Braided Composite Shafts. <i>Applied Composite Materials</i> , 2018, 25, 619-633. | 2.5 | 20 |
| 15 | Experimental study on the torsion behavior of a 3D 4-directionally braided composite shaft using DIC and AE. <i>Polymer Testing</i> , 2018, 72, 122-131. | 4.8 | 20 |
| 16 | Preparation and Mechanical Properties of Microcapsule-Based Self-Healing Cementitious Composites. <i>Materials</i> , 2021, 14, 4866. | 2.9 | 20 |
| 17 | Experimental characterization of contact angle and surface energy on aramid fibers. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 1012-1022. | 2.6 | 19 |
| 18 | Study on the torsion behavior of 3-D braided composite shafts. <i>Composite Structures</i> , 2019, 229, 111384. | 5.8 | 19 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Inversion and decoupling of thermo-mechanical deformation in anisotropic materials using the virtual fields method. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130124. | 2.1 | 18 |
| 20 | Displacement field denoising for high-temperature digital image correlation using principal component analysis. Mechanics of Advanced Materials and Structures, 2017, 24, 830-839. | 2.6 | 17 |
| 21 | HHT-based AE characteristics of 3D braiding composite shafts. Polymer Testing, 2019, 79, 106019. | 4.8 | 15 |
| 22 | Acoustic emission characterization of tensile damage in 3D braiding composite shafts. Polymer Testing, 2020, 81, 106176. | 4.8 | 15 |
| 23 | Influencing Factors on the Healing Performance of Microcapsule Self-Healing Concrete. Materials, 2021, 14, 4139. | 2.9 | 15 |
| 24 | Non-destructive evaluation of uneven coating thickness based on active long pulse thermography. NDT and E International, 2022, 130, 102672. | 3.7 | 15 |
| 25 | Study on crack-inclusion interaction using digital gradient sensing method. Mechanics of Advanced Materials and Structures, 2016, 23, 845-852. | 2.6 | 14 |
| 26 | Improving the interlaminar fracture toughness of carbon fiber/epoxy composites using clustered microcapsules. Polymer Testing, 2020, 87, 106562. | 4.8 | 14 |
| 27 | Investigation of dynamic mode I matrix crack-fiber bundle interaction in composites using caustics. Composites Part B: Engineering, 2016, 92, 395-404. | 12.0 | 12 |
| 28 | Distortion correction of a microscopy lens system for deformation measurements based on speckle pattern and grating. Optics and Lasers in Engineering, 2020, 124, 105804. | 3.8 | 12 |
| 29 | Localization and characterization of delamination in laminates using the local wavenumber method. Composite Structures, 2020, 238, 111972. | 5.8 | 12 |
| 30 | Study on mechanical properties and failure mechanism of 18650 Lithium-ion battery using digital image correlation and acoustic emission. Journal of Energy Storage, 2021, 41, 102894. | 8.1 | 12 |
| 31 | Study on the effect of inclusion shape on crack-inclusion interaction using digital gradient sensing method. Journal of Adhesion Science and Technology, 2015, 29, 2021-2034. | 2.6 | 11 |
| 32 | Eigenfunction virtual fields method for thermo-mechanical parameters identification of composite materials. Polymer Testing, 2016, 50, 224-234. | 4.8 | 11 |
| 33 | Photoelastic analysis of matrix crack-tilted fiber bundle interaction. Polymer Testing, 2016, 51, 101-108. | 4.8 | 11 |
| 34 | Computational Analysis of Torsional Bulking Behavior of 3D 4-Directional Braided Composites Shafts. Applied Composite Materials, 2018, 25, 163-176. | 2.5 | 11 |
| 35 | Stress field at V-notch tip in polymer materials using digital gradient sensing. Mechanics of Advanced Materials and Structures, 2017, 24, 350-356. | 2.6 | 10 |
| 36 | Damage analysis of cylindrical lithium-ion cells under three-points bending using acoustic emission. Journal of Power Sources, 2019, 444, 227323. | 7.8 | 9 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Nondestructive analysis of debonding in composite/rubber/rubber structure using ultrasonic pulse-echo method. <i>Nondestructive Testing and Evaluation</i> , 2020, , 1-13. | 2.1 | 9 |
| 38 | Investigation of damage identification for glass curtain wall based on Hilbert-Huang transform and transmissibility function. <i>International Journal of Modelling, Identification and Control</i> , 2011, 13, 38. | 0.2 | 8 |
| 39 | Mixed mode dynamic crack-fiber bundle interaction using caustics. <i>Polymer Testing</i> , 2016, 55, 230-237. | 4.8 | 7 |
| 40 | Interfacial toughness evaluation of thermal barrier coatings by bending test. <i>Theoretical and Applied Mechanics Letters</i> , 2018, 8, 3-6. | 2.8 | 7 |
| 41 | Acoustic emission analysis of 18,650 lithium-ion battery under bending based on factor analysis and the fuzzy clustering method. <i>Engineering Failure Analysis</i> , 2020, 117, 104800. | 4.0 | 7 |
| 42 | Characterizing thermo-mechanical behavior of superalloy using the eigenfunction virtual fields method. <i>Advances in Engineering Software</i> , 2016, 93, 22-29. | 3.8 | 6 |
| 43 | Experimental study on the matrix crack-fiber interaction using photoelasticity method. <i>Fibers and Polymers</i> , 2015, 16, 2028-2033. | 2.1 | 5 |
| 44 | Comparison of the Fatigue Crack Propagation Behavior of Two Different Forms of PMMA Using Two-Stage Zone Model. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 493-501. | 2.5 | 5 |
| 45 | Creep life evaluation of aluminum conductor composite core utilized in high voltage electric transmission. <i>Polymer Testing</i> , 2017, 63, 573-581. | 4.8 | 5 |
| 46 | Dynamic caustics in unidirectional fiber-reinforced composites with mode I cracks: Experiment and numerical simulation. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 286-294. | 2.6 | 5 |
| 47 | Numerical Study on the Tensile Behavior of 3D Four Directional Cylindrical Braided Composite Shafts. <i>Applied Composite Materials</i> , 2018, 25, 1103-1114. | 2.5 | 5 |
| 48 | Guided wave imaging of thin lithium-ion pouch cell using scanning laser Doppler vibrometer. <i>Ionics</i> , 2021, 27, 643-650. | 2.4 | 5 |
| 49 | Effects of Strength and Distribution of SiC on the Mechanical Properties of SiCp/Al Composites. <i>Materials</i> , 2022, 15, 1288. | 2.9 | 5 |
| 50 | Evaluation of the state of charge of lithium-ion batteries using ultrasonic guided waves and artificial neural network. <i>Ionics</i> , 2022, 28, 3277-3288. | 2.4 | 5 |
| 51 | Prediction of the Mechanical Properties of Titanium Alloy Castings Based on a Back-Propagation Neural Network. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8040-8047. | 2.5 | 4 |
| 52 | Buckle-driven delamination of thermal barrier coatings on a polynomial curved substrate. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 055026. | 2.0 | 3 |
| 53 | Study of matrix crack-tilted fiber bundle interaction using caustics and finite element method. <i>Review of Scientific Instruments</i> , 2016, 87, 023109. | 1.3 | 3 |
| 54 | Effect of cell form on residual stress of SiC-reinforced GH4738 composites. <i>Composites Part C: Open Access</i> , 2020, 2, 100030. | 3.2 | 3 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Estimating self-healing capability of carbon fiber/epoxy composites using ultrasonic guided wave. <i>Polymer Testing</i> , 2021, 96, 107121. | 4.8 | 3 |
| 56 | Photoelastic Investigation of Interaction Between Matrix Crack and Different Shapes of Inclusions. <i>Journal of Testing and Evaluation</i> , 2016, 44, 2352-2360. | 0.7 | 3 |
| 57 | Study of the interaction of matrix crack with inclusions of different shapes using the method of caustic. <i>Archive of Applied Mechanics</i> , 2017, 87, 1427-1438. | 2.2 | 2 |
| 58 | Analytical investigation of thermomechanical stresses in graded interphase between the fiber and the matrix. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 1239-1246. | 2.6 | 2 |
| 59 | Numerical simulation of residual stresses in hot isostatic pressed SiC/GH4738 composites. <i>Composites Part C: Open Access</i> , 2020, 3, 100046. | 3.2 | 2 |
| 60 | Effect of randomly distributed fibers on residual stress of SiC/GH4738 composites. <i>Composites Part C: Open Access</i> , 2021, 4, 100101. | 3.2 | 2 |
| 61 | Experimental Study on the Forming Limit of GH605 Superalloy Sheet Using Digital Image Correlation. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1420-1429. | 2.5 | 2 |
| 62 | Effects of Crack Width and Healing Time on Healing Performance of Microcapsule-Based Self-Healing Concrete. <i>Journal of Testing and Evaluation</i> , 2022, 50, 2043-2053. | 0.7 | 2 |
| 63 | Monitoring Damage Progression in Tensile Tested SiCp/Al Composites Using Acoustic Emission. <i>Frontiers in Materials</i> , 0, 9, . | 2.4 | 2 |
| 64 | Study on the Fracture Toughness of 3D Printed Engineering Plastics. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 2889-2895. | 2.5 | 1 |
| 65 | Investigation of Thermal Residual Stresses in Co-Cured Aluminum/Composite Hybrid Shaft Using Finite Element Method. <i>Applied Mechanics and Materials</i> , 0, 703, 68-72. | 0.2 | 0 |
| 66 | Courseware Fabrication of Flue Gas Desulfurization of Limestone-gypsum for Multimedia Teaching. , 0, , . | | 0 |
| 67 | Study on Compressive Properties of Self-Healing Cement Paste Using Acoustic Emission and Digital Image Correlation. <i>Journal of Testing and Evaluation</i> , 2022, 50, 2732-2750. | 0.7 | 0 |