Qingguo Fei

List of Publications by Year
in descending order

66 papers	1,113 citations	430874 18 h-index	477307 29 g-index
67 all docs	67 docs citations	67 times ranked	665 citing authors

#	ARTICLE	IF	CITATIONS
1	Drop-weight impact behavior of honeycomb sandwich panels under a spherical impactor. Composite Structures, 2017, 168, 633-645.	5.8	100
2	In–plane dynamic crushing behavior and energy absorption of honeycombs with a novel type of multi-cells. Thin-Walled Structures, 2017, 117, 199-210.	5.3	73
3	Numerical and analytical investigation on crushing of fractal-like honeycombs with self-similar hierarchy. Composite Structures, 2018, 192, 289-299.	5.8	57
4	Energy absorption in the axial crushing of hierarchical circular tubes. International Journal of Mechanical Sciences, 2020, 171, 105403.	6.7	55
5	Effect of bird geometry and impact orientation in bird striking on a rotary jet-engine fan analysis using SPH method. Aerospace Science and Technology, 2016, 54, 320-329.	4.8	49
6	Crushing of vertex-based hierarchical honeycombs with triangular substructures. Thin-Walled Structures, 2020, 146, 106436.	5.3	49
7	An approach on identification of equivalent properties of honeycomb core using experimental modal data. Finite Elements in Analysis and Design, 2014, 90, 84-92.	3.2	43
8	Prediction of uncertain elastic parameters of a braided composite. Composite Structures, 2015, 126, 123-131.	5.8	35
9	Structural health monitoring oriented stability and dynamic analysis of a long-span transmission tower-line system. Engineering Failure Analysis, 2012, 20, 80-87.	4.0	30
10	Computational evaluation of the effects of void on the transverse tensile strengths of unidirectional composites considering thermal residual stress. Composite Structures, 2019, 227, 111287.	5.8	30
11	Quasi-static combined compression-shear crushing of honeycombs: An experimental study. Materials and Design, 2019, 167, 107632.	7.0	28
12	Structural Health Monitoring-Oriented Finite-Element Model for a Large Transmission Tower. International Journal of Civil Engineering, 2018, 16, 79-92.	2.0	26
13	Modified micro-mechanics based multiscale model for progressive failure prediction of 2D twill woven composites. Chinese Journal of Aeronautics, 2020, 33, 2070-2087.	5.3	25
14	Vibro-acoustic analysis under stationary and non-stationary random excitations with KLE/FEM/BEM. Aerospace Science and Technology, 2017, 66, 203-215.	4.8	24
15	Substructure-based model updating using residual flexibility mixed-boundary method. Journal of Mechanical Science and Technology, 2017, 31, 759-769.	1.5	23
16	Reformulation of elemental modal strain energy method based on strain modes for structural damage detection. Advances in Structural Engineering, 2017, 20, 896-905.	2.4	23
17	Determination of thermo-elastic parameters for dynamical modeling of 2.5D C/SiC braided composites. Journal of Mechanical Science and Technology, 2018, 32, 231-243.	1.5	22
18	Dynamic sensitivity-based finite element model updating for nonlinear structures using time-domain responses. International Journal of Mechanical Sciences, 2020, 184, 105788.	6.7	20

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19	Non-stationary random vibration analysis of multi degree systems using auto-covariance orthogonal decomposition. Journal of Sound and Vibration, 2016, 372, 147-167.	3.9	17
20	Uncertainty propagation of the energy flow in vibro-acoustic system with fuzzy parameters. Aerospace Science and Technology, 2019, 94, 105367.	4.8	17
21	Utilization of modal stress approach in random-vibration fatigue evaluation. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 2603-2615.	1.3	15
22	Nonstationary Random Vibration Analysis of Wing with Geometric Nonlinearity Under Correlated Excitation. Journal of Aircraft, 2018, 55, 2078-2091.	2.4	15
23	Experimental and numerical investigation on static and dynamic characteristics for curvilinearly stiffened plates using DST–BK model. International Journal of Mechanical Sciences, 2020, 169, 105286.	6.7	15
24	Non-stationary random vibration analysis of structures under multiple correlated normal random excitations. Journal of Sound and Vibration, 2017, 400, 481-507.	3.9	14
25	Removing mass loading effects of multi-transducers using Sherman-Morrison-Woodbury formula in modal test. Aerospace Science and Technology, 2019, 93, 105241.	4.8	14
26	Prediction of Statistical Energy Analysis Parameters in Thermal Environment. Journal of Spacecraft and Rockets, 2019, 56, 687-694.	1.9	14
27	Frequency-dependent random fatigue of panel-type structures made of ceramic matrix composites. Acta Mechanica Solida Sinica, 2017, 30, 165-173.	1.9	13
28	Using Sherman–Morrison theory to remove the coupled effects of multi-transducers in vibration test. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 1364-1376.	1.3	13
29	Statistical Energy Analysis for the Vibro-Acoustic System with Interval Parameters. Journal of Aircraft, 2019, 56, 1869-1879.	2.4	13
30	The dynamic bending analysis of plates under thermal load using an efficient wave-based method. Thin-Walled Structures, 2020, 149, 106421.	5.3	13
31	Identify the stochastic dynamic load on a complex uncertain structural system. Mechanical Systems and Signal Processing, 2021, 147, 107114.	8.0	13
32	A sensitivity-based nonlinear finite element model updating method for nonlinear engineering structures. Applied Mathematical Modelling, 2021, 100, 632-655.	4.2	13
33	Analytical sensitivity analysis of flexible aircraft with the unsteady vortex-lattice aerodynamic theory. Aerospace Science and Technology, 2020, 99, 105612.	4.8	12
34	Nonlinear system identification of a double-well Duffing oscillator with position-dependent friction. Nonlinear Dynamics, 2022, 108, 2993-3008.	5.2	12
35	Transverse Properties Prediction of Polymer Composites at High Strain Rates Based on Unit Cell Model. Journal of Aerospace Engineering, 2018, 31, .	1.4	11
36	Novel statistical analysis method for determining shear strength of C/C composite pin. Ceramics International, 2020, 46, 5262-5270.	4.8	11

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37	An efficient wave based method for the mid-frequency transverse vibration analysis of a thermal beam with interval uncertainties. Aerospace Science and Technology, 2021, 110, 106438.	4.8	11
38	Evaluation of opening-hole shapes for rivet connection of a composite plate. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 3810-3817.	2.1	10
39	Modal energy analysis for mechanical systems excited by spatially correlated loads. Mechanical Systems and Signal Processing, 2018, 111, 362-375.	8.0	10
40	Prediction of the transient energy response for complex vibro-acoustic systems. Journal of Mechanical Science and Technology, 2019, 33, 495-504.	1.5	10
41	Thermal buckling and dynamic characteristics of composite plates under pressure load. Journal of Mechanical Science and Technology, 2020, 34, 3117-3125.	1.5	10
42	An efficient transient analysis method for time-varying structures based on statistical energy analysis. Mechanics Research Communications, 2018, 91, 93-99.	1.8	9
43	Free vibration analysis of composite panels considering correlations of spatially distributed uncertain parameters. Applied Mathematical Modelling, 2021, 98, 747-757.	4.2	8
44	Simulation study on damage localization of a beam using evidence theory. Procedia Engineering, 2009, 1, 147-150.	1.2	7
45	A Dimensionless Quotient for Determining Coupling Strength in Modal Energy Analysis. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.6	7
46	Dynamic shear fracture behaviors and "pseudo-plastic"constitutive model of carbon/carbon composite pins. International Journal of Mechanical Sciences, 2020, 187, 105903.	6.7	7
47	Distributed Dynamic Load Identification on Irregular Planar Structures Using Subregion Interpolation. Journal of Aircraft, 2021, 58, 288-299.	2.4	7
48	Modal Strain Based Method for Dynamic Design of Plate-Like Structures. Shock and Vibration, 2016, 2016, 1-10.	0.6	6
49	Evaluating deformation modes of sandwich serpentine structures for high stretchability. Thin-Walled Structures, 2020, 157, 107087.	5.3	6
50	Dynamic Out-of-Plane Compressive Failure Mechanism of Carbon/Carbon Composite: Strain Rate Effect on the Defect Propagation and Microstructure Failure. Journal of Engineering Materials and Technology, Transactions of the ASME, 2021, 143, .	1.4	6
51	Strain-Rate-Dependent In-Plane Compressive Properties of 3D Fine Weave Pierced C/C Composite: Failure Mechanism and Constitutive Model. Acta Mechanica Solida Sinica, 2022, 35, 63-78.	1.9	6
52	Investigation of thermal effects on the steady-state vibrations of a rectangular plate–cavity system subjected to harmonic loading and static temperature loads using a Wave Based Method. Wave Motion, 2021, 104, 102748.	2.0	6
53	Dynamic design of stiffeners for a typical panel using topology optimization and finite element analysis. Advances in Mechanical Engineering, 2015, 7, 168781401557246.	1.6	4
54	On Tracking Aeroelastic Modes in Stability Analysis Using Left and Right Eigenvectors. AIAA Journal, 2019, 57, 4447-4457.	2.6	4

#	Article	IF	Citations
55	Maintaining Specific Natural Frequency of Damped System despite Mass Modification. International Journal of Aerospace Engineering, 2019, 2019, 1-11.	0.9	3
56	High Temperature Deformation Field Measurement Using 3D Digital Image Correlation Method. , 2020, , .		3
57	Transient Energy Response Analysis of Vibro-Acoustic Systems with Fuzzy Uncertainty. Journal of Aircraft, 2021, 58, 210-215.	2.4	3
58	Fatigue Life of a 2.5D C/SiC Composite Under Tensionâ€"Tension Cyclic Loading: Experimental Investigation and Sensitivity Analysis. Acta Mechanica Solida Sinica, 2021, 34, 645-657.	1.9	3
59	Multi-camera based full-field 3D displacement measurement using digital image correlation. , 2020, , .		3
60	Vibro-acoustic coupled analysis excited by correlated turbulent boundary layer. Journal of Vibroengineering, 2016, 18, 3225-3241.	1.0	2
61	Model Updating of a Stitched Sandwich Panel Based on Multistage Parameter Selection. Mathematical Problems in Engineering, 2019, 2019, 1-15.	1.1	1
62	An Efficient Dynamic Modeling Technique for a Central Tie Rod Rotor. International Journal of Aerospace Engineering, 2021, 2021, 1-11.	0.9	1
63	Prediction of Transient Statistical Energy Response for Two-Subsystem Models Considering Interval Uncertainty. Journal of Verification, Validation and Uncertainty Quantification, 2019, 4, .	0.4	1
64	Identify the spatially-correlated random fluctuating pressure on structure from strain data. Aerospace Science and Technology, 2021, 119, 107182.	4.8	1
65	Removing adverse effect of measurement process in flotation method. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 2842-2848.	1.3	1
66	Study on Vibration Fatigue Life of Vehicle Radar. , 2019, , .		0