Qingkai Han

List of Publications by Year
in descending order

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20 papers	671 citations	623734 14 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	285 citing authors

#	Article	IF	Citations
1	Vibration studies of rotating cylindrical shells with arbitrary edges using characteristic orthogonal polynomials in the Rayleighâ€“Ritz method. International Journal of Mechanical Sciences, 2013, 68, 180-189.	6.7	124
2	Vibration and damping analysis of the bladed disk with damping hard coating on blades. Aerospace Science and Technology, 2016, 58, 248-257.	4.8	68
3	Nonlinear vibration analysis of fiber reinforced composite cylindrical shells with partial constrained layer damping treatment. Thin-Walled Structures, 2020, 157, 107000.	5.3	56
4	Traveling wave analysis of rotating cross-ply laminated cylindrical shells with arbitrary boundaries conditions via Rayleighâ€“Ritz method. Composite Structures, 2015, 133, 1101-1115.	5.8	48
5	Vibration reduction of the blisk by damping hard coating and its intentional mistuning design. Aerospace Science and Technology, 2019, 84, 1049-1058.	4.8	46
6	Vibration and damping analysis of cylindrical shell treated with viscoelastic damping materials under elastic boundary conditions via a unified Rayleigh-Ritz method. International Journal of Mechanical Sciences, 2020, 165, 105158.	6.7	46
7	Vibration and damping study of multifunctional grille composite sandwich plates with an IMAS design approach. Composites Part B: Engineering, 2021, 223, 109078.	12.0	44
8	Modeling of amplitude-dependent damping characteristics of fiber reinforced composite thin plate. Applied Mathematical Modelling, 2020, 80, 394-407.	4.2	36
9	A new nonlinear vibration model of fiber-reinforced composite thin plate with amplitude-dependent property. Nonlinear Dynamics, 2018, 94, 2219-2241.	5.2	34
10	An iterative method for identification of temperature and amplitude dependent material parameters of fiber-reinforced polymer composites. International Journal of Mechanical Sciences, 2020, 184, 105818.	6.7	34
11	Vibro-impact response of FRP sandwich plates with a foam core reinforced by chopped fiber rods. Composites Part B: Engineering, 2022, 242, 110077.	12.0	30
12	Vibration suppression effect of porous graphene platelet coating on fiber reinforced polymer composite plate with viscoelastic damping boundary conditions resting on viscoelastic foundation. Engineering Structures, 2021, 237, 112167.	5.3	19
13	Nonlinear vibration of rotating cylindrical shell due to unilateral contact induced tip rubbing impact: Theoretical and experimental verification. Mechanical Systems and Signal Processing, 2022, 164, 108244.	8.0	19
14	Identification of mechanical parameters of hard-coating materials with strain-dependence. Journal of Mechanical Science and Technology, 2014, 28, 81-92.	1.5	17
15	Investigation of vibro-impact resistance of fiber reinforced composite plates with polyurea coating with elastic constraints. Aerospace Science and Technology, 2022, 121, 107196.	4.8	13
16	Multiobjective optimization of hard coating parameters designing for damping of the bladed disk. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 1609-1619.	1.3	11
17	A unified modeling method for dynamic analysis of CFRC-PGPC circular arche with general boundary conditions in hygrothermal environment. Composite Structures, 2021, 255, 112884.	5.8	9
18	Vibration performance of rotating thin-walled cylindrical shell with tip-rubbing excitation between drum and stator vane segment of aero-engine. Journal of Sound and Vibration, 2022, 525, 116759.	3.9	9

#	Article	IF	Citations
19	Modeling and evaluation of dynamic degradation behaviours of carbon fibre-reinforced epoxy composite shells. Applied Mathematical Modelling, 2022, 104, 21-33.	4.2	7
20	Identification of the Anisotropic Elastic Parameters of NiCrAlY Coating by Combining Nanoindentation and Finite Element Method. Shock and Vibration, 2019, 2019, 1-13.	0.6	1