

Roohollah Talebitooti

List of Publications by Year in descending order

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97
papers

2,393
citations

147801

31
h-index

289244

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all docs

97
docs citations

97
times ranked

855
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi objective optimization of sound transmission across laminated composite cylindrical shell lined with porous core investigating Non-dominated Sorting Genetic Algorithm. <i>Aerospace Science and Technology</i> , 2017, 69, 269-280.	4.8	90
2	The effect of nature of porous material on diffuse field acoustic transmission of the sandwich aerospace composite doubly curved shell. <i>Aerospace Science and Technology</i> , 2018, 78, 157-170.	4.8	78
3	Acoustic transmission through laminated composite cylindrical shell employing Third order Shear Deformation Theory in the presence of subsonic flow. <i>Composite Structures</i> , 2016, 157, 95-110.	5.8	60
4	Analytical model of sound transmission through relatively thick FGM cylindrical shells considering third order shear deformation theory. <i>Composite Structures</i> , 2010, 93, 67-78.	5.8	59
5	Analytical model of sound transmission through orthotropic cylindrical shells with subsonic external flow. <i>Aerospace Science and Technology</i> , 2009, 13, 18-26.	4.8	55
6	Wideband PZT energy harvesting from the wake of a bluff body in varying flow speeds. <i>International Journal of Mechanical Sciences</i> , 2019, 163, 105135.	6.7	54
7	Vibroacoustic behavior of orthotropic aerospace composite structure in the subsonic flow considering the Third order Shear Deformation Theory. <i>Aerospace Science and Technology</i> , 2018, 75, 227-236.	4.8	52
8	Acoustic Insulation Characteristics of Shell Structures: A Review. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 505-523.	10.2	52
9	Exploiting bi-stable magneto-piezoelectric absorber for simultaneous energy harvesting and vibration mitigation. <i>International Journal of Mechanical Sciences</i> , 2021, 207, 106618.	6.7	50
10	A Review Approach for Sound Propagation Prediction of Plate Constructions. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 2817-2843.	10.2	48
11	Sound transmission through laminated composite cylindrical shells using analytical model. <i>Archive of Applied Mechanics</i> , 2007, 77, 363-379.	2.2	47
12	The influence of boundaries on sound insulation of the multilayered aerospace poroelastic composite structure. <i>Aerospace Science and Technology</i> , 2018, 80, 452-471.	4.8	47
13	Wave propagation in viscous-fluid-conveying piezoelectric nanotubes considering surface stress effects and Knudsen number based on nonlocal strain gradient theory. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	44
14	Wave transmission through laminated composite double-walled cylindrical shell lined with porous materials. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011, 32, 701-718.	3.6	43
15	Analysis of sound transmission loss through thick-walled cylindrical shell using three-dimensional elasticity theory. <i>International Journal of Mechanical Sciences</i> , 2016, 106, 286-296.	6.7	43
16	Free vibrations of rotating composite conical shells with stringer and ring stiffeners. <i>Archive of Applied Mechanics</i> , 2010, 80, 201-215.	2.2	42
17	Three dimensional sound transmission through poroelastic cylindrical shells in the presence of subsonic flow. <i>Journal of Sound and Vibration</i> , 2016, 363, 380-406.	3.9	42
18	Prediction of acoustic wave transmission features of the multilayered plate constructions: A review. <i>Journal of Sandwich Structures and Materials</i> , 2022, 24, 218-293.	3.5	42

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19	Thermal buckling and free vibration of FG truncated conical shells with stringer and ring stiffeners using differential quadrature method. <i>Mechanics Based Design of Structures and Machines</i> , 2019, 47, 255-282.	4.7	41
20	Improvement of the low-frequency sound insulation of the poroelastic aerospace constructions considering Pasternak elastic foundation. <i>Aerospace Science and Technology</i> , 2021, 112, 106620.	4.8	41
21	Acoustic wave transmission characteristics of stiffened composite shell systems with double curvature. <i>Composite Structures</i> , 2022, 292, 115688.	5.8	39
22	Vibroacoustic study on a multilayered functionally graded cylindrical shell with poroelastic core and bonded-unbonded configuration. <i>Journal of Sound and Vibration</i> , 2017, 393, 157-175.	3.9	38
23	Acoustic performance prediction of a multilayered finite cylinder equipped with porous foam media. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 899-912.	2.6	38
24	Nonlinear transient thermo-elastic analysis of a 2D-FGM thick hollow finite length cylinder. <i>Composites Part B: Engineering</i> , 2017, 111, 211-227.	12.0	37
25	Efficient energy harvesting from nonlinear vibrations of PZT beam under simultaneous resonances. <i>Energy</i> , 2019, 182, 369-380.	8.8	37
26	Haar wavelet discretization approach for frequency analysis of the functionally graded generally doubly-curved shells of revolution. <i>Applied Mathematical Modelling</i> , 2019, 67, 645-675.	4.2	37
27	Investigation of power transmission across laminated composite doubly curved shell in the presence of external flow considering shear deformation shallow shell theory. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 4492-4504.	2.6	36
28	Investigation of three-dimensional theory on sound transmission through compressed poroelastic sandwich cylindrical shell in various boundary configurations. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 2313-2357.	3.5	35
29	Mechanism study and power transmission feature of acoustically stimulated and thermally loaded composite shell structures with double curvature. <i>Composite Structures</i> , 2021, 276, 114557.	5.8	35
30	Bending behavior of empty and foam-filled aluminum tubes with different cross-sections. <i>Acta Mechanica Solida Sinica</i> , 2012, 25, 616-626.	1.9	33
31	State vector computational technique for three-dimensional acoustic sound propagation through doubly curved thick structure. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 352, 324-344.	6.6	33
32	Flexoelectric and surface effects on size-dependent flow-induced vibration and instability analysis of fluid-conveying nanotubes based on flexoelectricity beam model. <i>International Journal of Mechanical Sciences</i> , 2019, 156, 474-485.	6.7	33
33	Investigations on magnetic bistable PZT-based absorber for concurrent energy harvesting and vibration mitigation: Numerical and analytical approaches. <i>Energy</i> , 2022, 239, 122376.	8.8	33
34	Acoustic insulation characteristics of sandwich composite shell systems with double curvature: The effect of nature of viscoelastic core. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 1076-1090.	2.6	33
35	Investigating the performance of tri-stable magneto-piezoelastic absorber in simultaneous energy harvesting and vibration isolation. <i>Applied Mathematical Modelling</i> , 2022, 102, 661-693.	4.2	32
36	Comprehensive semi-analytical vibration analysis of rotating tapered AFG nanobeams based on nonlocal elasticity theory considering various boundary conditions via differential transformation method. <i>Composites Part B: Engineering</i> , 2019, 160, 412-435.	12.0	31

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37	Radiated sound control from a smart cylinder subjected to piezoelectric uncertainties based on sliding mode technique using self-adjusting boundary layer. <i>Aerospace Science and Technology</i> , 2020, 106, 106141.	4.8	31
38	Multi-objective optimization approach on diffuse sound transmission through poroelastic composite sandwich structure. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 1221-1252.	3.5	31
39	Investigation of state vector computational solution on modeling of wave propagation through functionally graded nanocomposite doubly curved thick structures. <i>Engineering With Computers</i> , 2020, 36, 1417-1433.	6.1	29
40	The effect of considering Pasternak elastic foundation on acoustic insulation of the finite doubly curved composite structures. <i>Composite Structures</i> , 2021, 256, 113064.	5.8	29
41	Hybrid control technique for vibroacoustic performance analysis of a smart doubly curved sandwich structure considering sensor and actuator layers. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 1453-1480.	3.5	29
42	Analytical model of sound transmission through laminated composite cylindrical shells considering transverse shear deformation. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2008, 29, 1165-1177.	3.6	28
43	Free vibration and critical speed of moderately thick rotating laminated composite conical shell using generalized differential quadrature method. <i>Applied Mathematics and Mechanics (English)</i> Tj ETQq1 1 0.784314 rgBT @overlock	3.1	28
44	Wave transmission across laminated composite plate in the subsonic flow Investigating Two-variable Refined Plate Theory. <i>Latin American Journal of Solids and Structures</i> , 2018, 15, .	1.0	27
45	A robust optimum controller for suppressing radiated sound from an intelligent cylinder based on sliding mode method considering piezoelectric uncertainties. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 3066-3079.	2.5	27
46	Efficient acoustic energy harvesting by deploying magnetic restoring force. <i>Smart Materials and Structures</i> , 2019, 28, 105037.	3.5	25
47	A semi-analytical approach on the effect of external lateral pressure on free vibration of joined sandwich aerospace composite conical-conical shells. <i>Aerospace Science and Technology</i> , 2020, 99, 105559.	4.8	25
48	Dynamic Analysis and critical speed of rotating laminated conical shells with orthogonal stiffeners using generalized differential quadrature method. <i>Latin American Journal of Solids and Structures</i> , 2013, 10, 349-390.	1.0	23
49	Wave propagation across double-walled laminated composite cylindrical shells along with air-gap using three-dimensional theory. <i>Composite Structures</i> , 2017, 165, 44-64.	5.8	23
50	Analysis of wave propagation through functionally graded porous cylindrical structures considering the transfer matrix method. <i>Thin-Walled Structures</i> , 2021, 159, 107212.	5.3	23
51	Optimal control of laminated plate integrated with piezoelectric sensor and actuator considering TSDT and meshfree method. <i>European Journal of Mechanics, A/Solids</i> , 2016, 55, 199-211.	3.7	22
52	Investigation on sound transmission through thick-wall cylindrical shells using 3D- theory of elasticity in the presence of external and mean air-gap flow. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 975-1000.	2.6	22
53	Vibration and Critical Speed of Orthogonally Stiffened Rotating FG Cylindrical Shell Under Thermo-Mechanical Loads Using Differential Quadrature Method. <i>Journal of Thermal Stresses</i> , 2013, 36, 160-188.	2.0	21
54	Study of imperfect bonding effects on sound transmission loss through functionally graded laminated sandwich cylindrical shells. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 469-483.	6.7	21

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55	An exact solution of three-dimensional elasticity for sound transmission loss through FG cylinder in presence of subsonic external flow. <i>International Journal of Mechanical Sciences</i> , 2017, 120, 105-119.	6.7	21
56	Flexoelectric effects on wave propagation responses of piezoelectric nanobeams via nonlocal strain gradient higher order beam model. <i>Materials Research Express</i> , 2019, 6, 1050d5.	1.6	20
57	Investigating Hyperbolic Shear Deformation Theory on vibroacoustic behavior of the infinite Functionally Graded thick plate. <i>Latin American Journal of Solids and Structures</i> , 2019, 16, .	1.0	20
58	Flutter and bifurcation instability analysis of fluid-conveying micro-pipes sandwiched by magnetostrictive smart layers under thermal and magnetic field. <i>International Journal of Mechanics and Materials in Design</i> , 2020, 16, 569-588.	3.0	17
59	Incorporating the Havriliakâ€™Negami model in wave propagation through polymeric viscoelastic core in a laminated sandwich cylinder. <i>Thin-Walled Structures</i> , 2019, 134, 460-474.	5.3	16
60	Thermal effects on the free vibration of joined FG-CNTRC conical-conical shells. <i>Thin-Walled Structures</i> , 2020, 156, 106960.	5.3	16
61	Shape design optimization of cylindrical tank using b-spline curves. <i>Computers and Fluids</i> , 2015, 109, 100-112.	2.5	14
62	Three-dimensional wave propagation on orthotropic cylindrical shells with arbitrary thickness considering state space method. <i>Composite Structures</i> , 2015, 132, 239-254.	5.8	13
63	Acoustic wave transmission through a polymeric foam plate using the mathematical model of functionally graded viscoelastic (FGV) material. <i>Thin-Walled Structures</i> , 2020, 148, 106466.	5.3	13
64	Applying a functionally graded viscoelastic model on acoustic wave transmission through the polymeric foam cylindrical shell. <i>Composite Structures</i> , 2020, 244, 112261.	5.8	12
65	Frequency study on panel type of FG-CNTRC joined conical-conical structures. <i>Composite Structures</i> , 2021, 259, 113241.	5.8	12
66	A study on acoustic behavior of poroelastic media bonded between laminated composite panels. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 2379-2407.	1.0	11
67	A variational iteration method (VIM) for nonlinear dynamic response of a cracked plate interacting with a fluid media. <i>Engineering With Computers</i> , 2021, 37, 3299-3318.	6.1	11
68	Optimization of sound transmission through laminated composite cylindrical shells by using a genetic algorithm. <i>Mechanics of Composite Materials</i> , 2011, 47, 481-494.	1.4	10
69	Power transmission through double-walled laminated composite panels considering porous layer-air gap insulation. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 1447-1466.	3.6	10
70	Effect of Honeycomb Core on Free Vibration Analysis of Fiber Metal Laminate (FML) Beams Compared to Conventional Composites. <i>Composite Structures</i> , 2021, 261, 113281.	5.8	10
71	Study on TVD parameters sensitivity of a crankshaft using multiple scale and state space method considering quadratic and cubic non-linearities. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 2672-2695.	1.0	9
72	Analytical investigation on sound transmission loss of functionally graded nanocomposite cylindrical shells reinforced by carbon nanotubes. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 3386-3403.	4.7	8

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73	The study of sound transmission through sandwich cylindrical shells with circumferentially corrugated cores filled with porous materials. <i>Composite Structures</i> , 2022, 291, 115608.	5.8	8
74	Vibroacoustic Response of a Double-Walled Cylindrical FGM Shell with a Porous Sandwiched Layer. <i>Mechanics of Composite Materials</i> , 2015, 51, 581-592.	1.4	7
75	Sound transmission across orthotropic cylindrical shells using third-order shear deformation theory. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 2039-2072.	1.0	6
76	Identification of tire force characteristics using a Hybrid method. <i>Applied Soft Computing Journal</i> , 2016, 40, 70-85.	7.2	6
77	Haar wavelet technique applied on the functionally graded carbon nanotube reinforced conical shells to study free vibration and buckling behaviors in thermal environments. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 1863-1878.	2.6	6
78	Acoustic Transmission Through Cylindrical Shells Treated with FLD Mechanisms. <i>Journal of Mechanics</i> , 2009, 25, 299-306.	1.4	5
79	Investigation on natural frequency of an optimized elliptical container using real-coded genetic algorithm. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 113-129.	1.0	5
80	Vibroacoustic behavior of a plate surrounded by a cavity containing an inclined part through surface crack with arbitrary position. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 2365-2379.	2.6	5
81	Vibration and stability analysis of fluid-conveying sandwich micro-pipe with magnetorheological elastomer core, considering modified couple stress theory and geometrical nonlinearity. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	5
82	Concurrent energy harvesting and vibration suppression utilizing PZT-based dynamic vibration absorber. <i>Archive of Applied Mechanics</i> , 2022, 92, 363-382.	2.2	5
83	ANALYTICAL MODEL OF SOUND TRANSMISSION THROUGH ORTHOTROPIC DOUBLE WALLED CYLINDRICAL SHELLS. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2008, 32, 43-66.	0.8	4
84	On wave dispersion characteristics of fluid-conveying smart nanotubes considering surface elasticity and flexoelectricity approach. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 3506-3518.	2.1	4
85	Improving the Sound Absorption of Natural Waste Material-based Sound Absorbers Using Micro-perforated Plates. <i>Journal of Natural Fibers</i> , 2022, 19, 5199-5210.	3.1	4
86	Acoustic insulation feature of multiphase magneto-electro-elasticity shell systems with double curvature. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6530-6542.	2.6	4
87	Functionally graded viscoelastic core characteristics on vibroacoustic behavior of double-walled cylindrical shells in a subsonic external flow. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 265-285.	2.6	4
88	Critical speed and frequency behavior of rotating joined FG-CNTRC conical-conical shells. <i>Engineering Structures</i> , 2022, 266, 114508.	5.3	4
89	Optimization of Sound transmission through composite cylinder with poroelastic core considering VCM. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 238-249.	2.6	3
90	On size-dependent wave propagation of flexoelectric nanoshells interacted with internal moving fluid flow. <i>Waves in Random and Complex Media</i> , 0, , 1-30.	2.7	3

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91	An analytical study of the effects of a circumferentially corrugated core on sound transmission through double-walled cylindrical shells. JVC/Journal of Vibration and Control, 2023, 29, 3580-3592.	2.6	3
92	Optimum Design of 1st Gear Ratio for 4WD Vehicles Based on Vehicle Dynamic Behaviour. Advances in Mechanical Engineering, 2013, 5, 474872.	1.6	2
93	Dynamic Analysis and Critical Speed of Pressurized Rotating Composite Laminated Conical Shells Using Generalized Differential Quadrature Method. Journal of Mechanics, 2010, 26, 61-70.	1.4	1
94	Acoustical Modeling of Laminated Composite Cylindrical Double-Walled Shell Lined with Porous Materials. , 2012, , .		1
95	Acoustic performance prediction of a multilayered finite cylinder equipped with porous foam media. , 0, .		1
96	Active-suspension Design for a Special Road-Rail Vehicle Based on Vehicle-Track Coupled Model Using Genetic Algorithm. International Journal of Acoustics and Vibrations, 2018, 23, .	0.3	0
97	On size-dependent nonlinear forced dynamics of MRE-cored sandwich micro-pipes in presence of moving flow and harmonic excitation. Mechanics of Advanced Materials and Structures, 0, , 1-20.	2.6	0