Ding Zhou

List of Publications by Year
in descending order

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110	1,971	279798	315739
papers	citations	23 h-index	38 g-index

110	110	110	1119
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-dimensional vibration analysis of thick rectangular plates using Chebyshev polynomial and Ritz method. International Journal of Solids and Structures, 2002, 39, 6339-6353.	2.7	147
2	Three-dimensional vibration analysis of circular and annular plates via the Chebyshevâ€“Ritz method. International Journal of Solids and Structures, 2003, 40, 3089-3105.	2.7	117
3	3D vibration analysis of solid and hollow circular cylinders via Chebyshevâ€“Ritz method. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 1575-1589.	6.6	89
4	Vibration of vertical rectangular plate in contact with water on one side. Earthquake Engineering and Structural Dynamics, 2000, 29, 693-710.	4.4	82
5	Three-dimensional elasticity solution of functionally graded rectangular plates with variable thickness. Composite Structures, 2009, 91, 56-65.	5.8	66
6	A general solution to vibrations of beams on variable winkler elastic foundation. Computers and Structures, 1993, 47, 83-90.	4.4	61
7	Durability of glass fiber-reinforced polymer composites under the combined effects of moisture and sustained loads. Journal of Reinforced Plastics and Composites, 2015, 34, 1739-1754.	3.1	52
8	Three-dimensional free vibration of thick circular plates on Pasternak foundation. Journal of Sound and Vibration, 2006, 292, 726-741.	3.9	51
9	Natural frequencies of elastically restrained rectangular plates using a set of static beam functions in the Rayleigh-Ritz method. Computers and Structures, 1995, 57, 731-735.	4.4	50
10	Pull-out strength and bond behaviour of axially loaded rebar glued-in glulam. Construction and Building Materials, 2014, 65, 440-449.	7.2	49
11	Nonlinear vibration of FG-GPLRC dielectric plate with active tuning using differential quadrature method. Computer Methods in Applied Mechanics and Engineering, 2021, 379, 113761.	6.6	47
12	3-D vibration analysis of skew thick plates using Chebyshevâ€“Ritz method. International Journal of Mechanical Sciences, 2006, 48, 1481-1493.	6.7	43
13	Dynamic characteristics of a beam and distributed spring-mass system. International Journal of Solids and Structures, 2006, 43, 5555-5569.	2.7	41
14	Liquid sloshing in rigid cylindrical container with multiple rigid annular baffles: Free vibration. Journal of Fluids and Structures, 2012, 34, 138-156.	3.4	38
15	Hydroelastic vibrations of flexible rectangular tanks partially filled with liquid. International Journal for Numerical Methods in Engineering, 2007, 71, 149-174.	2.8	37
16	Numerical analysis on stability of functionally graded graphene platelets (GPLs) reinforced dielectric composite plate. Applied Mathematical Modelling, 2022, 101, 239-258.	4.2	36
17	Static response of functionally graded graphene plateletâ€“reinforced composite plate with dielectric property. Journal of Intelligent Material Systems and Structures, 2020, 31, 2211-2228.	2.5	35
18	Three-dimensional vibration of rotating functionally graded beams. JVC/Journal of Vibration and Control, 2018, 24, 3292-3306.	2.6	32

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19	Free vibration of rectangular plates with continuously distributed spring-mass. International Journal of Solids and Structures, 2006, 43, 6502-6520.	2.7	28
20	Free Vibration Analysis of Rotating Axially Functionally Graded Tapered Timoshenko Beams. International Journal of Structural Stability and Dynamics, 2016, 16, 1550007.	2.4	28
21	Eigenfrequencies of line supported rectangular plates. International Journal of Solids and Structures, 1994, 31, 347-358.	2.7	25
22	Three-Dimensional Thermoelastic Analysis of Rectangular Plates with Variable Thickness Subjected to Thermomechanical Loads. Journal of Thermal Stresses, 2010, 33, 1136-1155.	2.0	25
23	Vertical impedance of a tapered pile in inhomogeneous saturated soil described by fractional viscoelastic model. Applied Mathematical Modelling, 2019, 75, 88-100.	4.2	25
24	3-D vibration analysis of generalized super elliptical plates using Chebyshevâ€“Ritz method. International Journal of Solids and Structures, 2004, 41, 4697-4712.	2.7	22
25	Elasticity solution of clamped-simply supported beams with variable thickness. Applied Mathematics and Mechanics (English Edition), 2008, 29, 279-290.	3.6	22
26	Horizontal impedance of pile groups considering shear behavior of multilayered soils. Soils and Foundations, 2014, 54, 927-937.	3.1	21
27	Earthquake Response of Cylindrical Storage Tanks on an Elastic Soil. Journal of Vibration Engineering and Technologies, 2019, 7, 433-444.	2.2	21
28	Three-dimensional vibration analysis of a torus with circular cross section. Journal of the Acoustical Society of America, 2002, 112, 2831-2839.	1.1	20
29	An equivalent mechanical model for fluid sloshing in a rigid cylindrical tank equipped with a rigid annular baffle. Applied Mathematical Modelling, 2019, 72, 569-587.	4.2	18
30	Mechanical behaviour of concrete filled double skin steel tubular stub columns confined by FRP under axial compression. Steel and Composite Structures, 2014, 17, 431-452.	1.3	18
31	Elasticity solution of multi-span beams with variable thickness under static loads. Applied Mathematical Modelling, 2009, 33, 2951-2966.	4.2	17
32	Two-dimensional thermoelastic analysis of beams with variable thickness subjected to thermo-mechanical loads. Applied Mathematical Modelling, 2012, 36, 5818-5829.	4.2	17
33	Nonlinear sloshing of liquid in rigid cylindrical container with a rigid annular baffle: free vibration. Nonlinear Dynamics, 2014, 78, 2557-2576.	5.2	17
34	Flexural performance of sandwich beams with lattice ribs and a functionally multilayered foam core. Composite Structures, 2016, 152, 704-711.	5.8	17
35	Lumped-parameter model of foundations based on complex Chebyshev polynomial fraction. Soil Dynamics and Earthquake Engineering, 2013, 50, 192-203.	3.8	16
36	Elasticity solutions of simply supported laminated cylindrical arches subjected to thermo-loads. Composite Structures, 2015, 131, 273-281.	5.8	16

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37	Elasticity solution of two-layer beam with a viscoelastic interlayer considering memory effect. International Journal of Solids and Structures, 2016, 94-95, 76-86.	2.7	16
38	Analysis of layered rectangular plates under thermo-mechanical loads considering temperature-dependent material properties. Applied Mathematical Modelling, 2021, 92, 244-260.	4.2	16
39	Nested Lumped-Parameter Model for Foundation with Strongly Frequency-dependent Impedance. Journal of Earthquake Engineering, 2016, 20, 975-991.	2.5	15
40	Comparison of two models for human-structure interaction. Applied Mathematical Modelling, 2016, 40, 3738-3748.	4.2	15
41	Three-dimensional vibration analysis of cantilevered skew plates. Journal of Sound and Vibration, 2008, 313, 134-148.	3.9	14
42	Two-dimensional elasticity solution for bending of functionally graded beams with variable thickness. Meccanica, 2014, 49, 2479-2489.	2.0	14
43	Liquid Sloshing in a Rigid Cylindrical Tank Equipped with a Rigid Annular Baffle and on Soil Foundation. International Journal of Structural Stability and Dynamics, 2020, 20, 2050030.	2.4	14
44	Free vibration of rectangular plates with internal column supports. Journal of Sound and Vibration, 2006, 297, 146-166.	3.9	13
45	Three-dimensional vibrations of annular thick plates with linearly varying thickness. Archive of Applied Mechanics, 2012, 82, 111-135.	2.2	13
46	Flexural behavior of hybrid composite beams with a bamboo layer and lattice ribs. Journal of Reinforced Plastics and Composites, 2015, 34, 521-533.	3.1	13
47	In-Plane Vibration Analysis of Rotating Tapered Timoshenko Beams. International Journal of Applied Mechanics, 2016, 08, 1650064.	2.2	13
48	Vibration analysis of rectangular Mindlin plates with internal line supports using static Timoshenko beam functions. International Journal of Mechanical Sciences, 2002, 44, 2503-2522.	6.7	12
49	Study on coupled vibration characteristics of a cylindrical container with multiple elastic annular baffles. Science China Technological Sciences, 2012, 55, 3292-3301.	4.0	12
50	Effect of a forced harmonic vibration pile to its adjacent pile in layered elastic soil with double-shear model. Soil Dynamics and Earthquake Engineering, 2014, 67, 54-65.	3.8	12
51	2-D elasticity solutions of two-layer composite beams with an arbitrarily shaped interface. Applied Mathematical Modelling, 2016, 40, 1477-1493.	4.2	12
52	2-D elasticity solution of layered composite beams with viscoelastic interlayers. Mechanics of Time-Dependent Materials, 2016, 20, 65-84.	4.4	11
53	Horizontal Dynamic Stiffness and Interaction Factors of Inclined Piles. International Journal of Geomechanics, 2017, 17, .	2.7	11
54	Sloshing of fluid in a baffled rectangular aqueduct considering soil-structure interaction. Soil Dynamics and Earthquake Engineering, 2019, 122, 132-147.	3.8	11

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55	Effect of built-in edges on 3-D vibrational characteristics of thick circular plates. International Journal of Solids and Structures, 2006, 43, 1960-1978.	2.7	10
56	Two-dimensional analysis of simply supported piezoelectric beams with variable thickness. Applied Mathematical Modelling, 2011, 35, 4458-4472.	4.2	10
57	Thermal stresses in layered thick cylindrical shells of infinite length. Journal of Thermal Stresses, 2017, 40, 322-343.	2.0	10
58	3-D exact solution of two-layer plate bonded by a viscoelastic interlayer with memory effect. Composite Structures, 2017, 164, 291-303.	5.8	10
59	Analysis of laminated beams with temperature-dependent material properties subjected to thermal and mechanical loads. Composite Structures, 2019, 227, 111304.	5.8	10
60	Analytical solutions for multilayered pipes with temperature-dependent properties under non-uniform pressure and thermal load. Applied Mathematical Modelling, 2022, 106, 369-389.	4.2	10
61	Dynamic characteristics of a generalised suspension system. International Journal of Mechanical Sciences, 2008, 50, 30-42.	6.7	9
62	Free Vibration of Rectangular Plates with Attached Discrete Sprung Masses. Shock and Vibration, 2012, 19, 101-118.	0.6	9
63	3-D Elasticity Solutions of Simply Supported Laminated Rectangular Plates in Uniform Temperature Field. Journal of Thermal Stresses, 2014, 37, 661-677.	2.0	9
64	3-D Elasticity Solutions of Layered Rectangular Plates Subjected to Thermo-Loads. Journal of Thermal Stresses, 2015, 38, 377-398.	2.0	9
65	Free vibration analysis of rotating axially functionally graded-tapered beams using Chebyshevâ€“Ritz method. Materials Research Innovations, 2015, 19, S5-1255-S5-1262.	2.3	9
66	Mechanical Parameters of Standing Body and Applications in Humanâ€“Structure Interaction. International Journal of Applied Mechanics, 2017, 09, 1750021.	2.2	9
67	Elasticity solution of laminated beams with temperature-dependent material properties under a combination of uniform thermo-load and mechanical loads. Journal of Central South University, 2018, 25, 2537-2549.	3.0	9
68	Three-Dimensional Dynamics Analysis of Rotating Functionally Gradient Beams Based on Timoshenko Beam Theory. International Journal of Applied Mechanics, 2019, 11, 1950040.	2.2	9
69	Analysis of thick beams with temperature-dependent material properties under thermomechanical loads. Advances in Structural Engineering, 2020, 23, 1838-1850.	2.4	9
70	Modelling of lateral forces generated by pedestrians walking across footbridges. Applied Mathematical Modelling, 2021, 89, 1775-1791.	4.2	9
71	Lumped Parameter Model for Liquid Sloshing in a Cylindrical Tank Equipped with Multiple Annular Baffles. Journal of Structural Engineering, 2021, 147, .	3.4	9
72	Free vibration of arbitrarily shaped plates with concentric ring elastic and/or rigid supports. Computers and Structures, 1994, 50, 685-692.	4.4	8

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73	Estimation of Dynamic Characteristics of a Spring-Mass-Beam System. Shock and Vibration, 2007, 14, 271-282.	0.6	8
74	Free vibration and dynamic response analysis of liquid in a rectangular rigid container with an elastic baffle. Ocean Engineering, 2020, 216, 108119.	4.3	8
75	Models of a standing human body in vertical vibration. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2013, 166, 367-378.	0.8	7
76	Frequency-dependent impedance of a strip foundation group and its representation in time domain. Applied Mathematical Modelling, 2015, 39, 2861-2881.	4.2	7
77	Vibration of uniform columns with arbitrarily shaped cross-sections partially submerged in water considering the effects of surface wave and compressibility of water. Computers and Structures, 1993, 46, 1049-1054.	4.4	6
78	Effect of Vertical Elastic Baffle on Liquid Sloshing in Rectangular Rigid Container. International Journal of Structural Stability and Dynamics, 0, , 2150167.	2.4	6
79	Three-dimensional elasticity solution of simple-supported rectangular plate on point supports, line supports and elastic foundation. Science in China Series D: Earth Sciences, 2009, 52, 584-589.	0.9	5
80	Elasticity solution of laminated beams subjected to thermo-loads. Journal of Central South University, 2015, 22, 2297-2305.	3.0	5
81	Coupled Responses of Partially Liquid-Filled Container with Multielastic Annular Baffles under Lateral Excitations. Journal of Aerospace Engineering, 2018, 31, .	1.4	5
82	On the three-dimensional vibrations of elastic prisms with skew cross-section. Meccanica, 2013, 48, 993-1016.	2.0	4
83	Three-dimensional free vibration analysis of doubly-curved shells. JVC/Journal of Vibration and Control, 2015, 21, 2306-2324.	2.6	4
84	Coupled response of liquid in a rigid cylindrical container equipped with an elastic annular baffle. Meccanica, 2016, 51, 2045-2058.	2.0	4
85	Three-dimensional elasticity solution of layered plates with viscoelastic interlayers. Mechanics of Time-Dependent Materials, 2017, 21, 307-329.	4.4	4
86	Time-dependent behavior of layered arches with viscoelastic interlayers. Mechanics of Time-Dependent Materials, 2018, 22, 315-330.	4.4	4
87	Analytical Solution of Deformations for Two-Layer Timoshenko Beams Glued by a Viscoelastic Interlayer. Mathematical Problems in Engineering, 2019, 2019, 1-15.	1.1	4
88	Stresses of orthotropic laminated beams subjected to high temperature and mechanical load. Theoretical and Applied Mechanics Letters, 2019, 9, 279-284.	2.8	4
89	A theoretical investigation on the thermal response of laminated cylindrical panel. Archive of Applied Mechanics, 2020, 90, 475-493.	2.2	4
90	Human-structure interaction experiments to determine the dynamic properties of the standing human body in vertical vibration. Structures, 2020, 26, 934-946.	3.6	4

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91	Bending-torsion vibration of a partially submerged cylinder with an arbitrary cross-section. Applied Mathematical Modelling, 2007, 31, 2249-2265.	4.2	3
92	Three-dimensional vibration analysis of prisms with isosceles triangular cross-section. Archive of Applied Mechanics, 2010, 80, 699-710.	2.2	3
93	A New Formula of Impact Stiffness in Linear Viscoelastic Model for Pounding Simulation. Shock and Vibration, 2016, 2016, 1-7.	0.6	3
94	Analysis of External Water Pressure for a Tunnel in Fractured Rocks. Geofluids, 2017, 2017, 1-11.	0.7	3
95	Liquid Sloshing in a Cylindrical Tank with Multiple Baffles Under Horizontal and Pitching Motions. International Journal of Applied Mechanics, 2020, 12, 2050080.	2.2	3
96	Response of Liquid in Cylindrical Tank with Rigid Annual Baffle Considering Damping Effect. Advanced Materials Research, 2011, 255-260, 3687-3691.	0.3	2
97	Rocking Response of a Surface-Supported Strip Foundation under a Harmonic Swaying Force. Applied Mechanics and Materials, 2012, 226-228, 1453-1457.	0.2	2
98	Elasticity Solutions for Sandwich Arches considering Permeation Effect of Adhesive. Advances in Polymer Technology, 2020, 2020, 1-11.	1.7	2
99	3-D Thermo-Stress Field in Laminated Cylindrical Shells. CMES - Computer Modeling in Engineering and Sciences, 2019, 121, 215-247.	1.1	2
100	Study on Lumped-Parameter Model of Surface Circular Foundation. Advanced Materials Research, 0, 261-263, 980-984.	0.3	1
101	On the three-dimensional vibrations of a hollow elastic torus of annular cross-section. Archive of Applied Mechanics, 2011, 81, 473-487.	2.2	1
102	The Study on Mechanical Properties of Single-Bolted Steel-Glulam-Steel Joints. Advanced Materials Research, 0, 255-260, 204-208.	0.3	1
103	Analysis of temperature-dependent layered shells subjected to thermomechanical loading. Mechanics of Advanced Materials and Structures, 2022, 29, 4865-4877.	2.6	1
104	Analytical Modeling of Fluid Sloshing in A 2D Rectangular Container with A Bottom-Mounted T-Shaped Baffle. China Ocean Engineering, 2022, 36, 299-310.	1.6	1
105	Torsional vibration of uniform columns with arbitrarily shaped cross-sections partially submerged in water. Computers and Structures, 1994, 53, 35-41.	4.4	0
106	Parameter Effect of Side Retainers on Seismic Response of Bridges with Flexible Rubber Bearings. Advanced Materials Research, 0, 255-260, 1280-1284.	0.3	0
107	A Direct Displacement-Based Design Method Based on Chinese Code of Base Isolated Structures. Advanced Materials Research, 0, 255-260, 2555-2559.	0.3	0
108	Temperature Field in Simply Supported Laminated Beam. Advanced Materials Research, 0, 430-432, 181-184.	0.3	0

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109	A Simple Model for Vertical Dynamic Interactions among a Group of Strip Footings Rested on Homogeneous Half-Space. Shock and Vibration, 2018, 2018, 1-12.	0.6	0
110	Nonlinear Sloshing of Liquid in a Rigid Cylindrical Container with a Rigid Annular Baffle under Lateral Excitation. Shock and Vibration, 2019, 2019, 1-18.	0.6	0