Davood Younesian

List of Publications by Year in descending order

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		201674	254184
141	2,434	27	43
papers	citations	h-index	g-index
142 all docs	142 docs citations	142 times ranked	1478 citing authors

#	Article	IF	CITATIONS
1	Multi-stable mechanisms for high-efficiency and broadband ocean wave energy harvesting. Applied Energy, 2017, 197, 292-302.	10.1	150
2	Dynamics of Timoshenko beams on Pasternak foundation under moving load. Mechanics Research Communications, 2004, 31, 713-723.	1.8	130
3	Response of beams on nonlinear viscoelastic foundations to harmonic moving loads. Computers and Structures, 2005, 83, 1865-1877.	4.4	125
4	Frequency analysis of strongly nonlinear generalized Duffing oscillators using He's frequency–amplitude formulation and He's energy balance method. Computers and Mathematics With Applications, 2010, 59, 3222-3228.	2.7	111
5	Elastic and viscoelastic foundations: a review on linear and nonlinear vibration modeling and applications. Nonlinear Dynamics, 2019, 97, 853-895.	5.2	101
6	Sound and vibration energy harvesting for railway applications: A review on linear and nonlinear techniques. Energy Reports, 2021, 7, 852-874.	5.1	62
7	Enhancement of the low-frequency acoustic energy harvesting with auxetic resonators. Applied Energy, 2020, 270, 115217.	10.1	57
8	Existence of Periodic Solutions for the Generalized Form of Mathieu Equation. Nonlinear Dynamics, 2005, 39, 335-348.	5.2	55
9	Internal-external resonance of beams on non-linear viscoelastic foundation traversed by moving load. Nonlinear Dynamics, 2010, 61, 163-182.	5.2	55
10	Ride comfort of high-speed trains travelling over railway bridges. Vehicle System Dynamics, 2005, 43, 173-197.	3.7	53
11	Frequency analysis of finite beams on nonlinear Kelvin–Voight foundation under moving loads. Journal of Sound and Vibration, 2011, 330, 1455-1471.	3.9	51
12	Enhancement of piezoelectric vibration energy harvesting with auxetic boosters. International Journal of Energy Research, 2020, 44, 1179-1190.	4.5	51
13	Study in circular auxetic structures for efficiency enhancement in piezoelectric vibration energy harvesting. Scientific Reports, 2020, 10, 16338.	3.3	51
14	Longitudinal dynamics of freight trains. International Journal of Heavy Vehicle Systems, 2009, 16, 102.	0.2	50
15	Parametrically Excited Vibration of a Timoshenko Beam on Random Viscoelastic Foundation jected to a Harmonic Moving Load. Nonlinear Dynamics, 2006, 45, 75-93.	5.2	43
16	Primary and secondary resonance analyses of clamped–clamped micro-beams. Nonlinear Dynamics, 2014, 76, 1867-1884.	5.2	41
17	Non-linear vibration of variable speed rotating viscoelastic beams. Nonlinear Dynamics, 2010, 60, 193-205.	5.2	40
18	A High Accuracy Imaging and Measurement System for Wheel Diameter Inspection of Railroad Vehicles. IEEE Transactions on Industrial Electronics, 2018, 65, 8239-8249.	7.9	40

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19	Approximate periodic solutions for the Helmholtz–Duffing equation. Computers and Mathematics With Applications, 2011, 62, 3894-3901.	2.7	39
20	Nonlinear dynamics of an inclined beam subjected toÂaÂmoving load. Nonlinear Dynamics, 2010, 60, 277-293.	5.2	38
21	Nonlinear free vibration analysis of a plate-cavity system. Thin-Walled Structures, 2014, 74, 191-200.	5.3	37
22	Nonlinear vibration analysis of fluid-conveying microtubes. Nonlinear Dynamics, 2016, 85, 1007-1021.	5.2	36
23	Novel cross shape phononic crystals with broadband vibration wave attenuation characteristic: Design, modeling and testing. Thin-Walled Structures, 2021, 163, 107665.	5.3	34
24	Vibration suppression of rotating beams using time-varying internal tensile force. Journal of Sound and Vibration, 2011, 330, 308-320.	3.9	33
25	Asymptotic solutions and stability analysis for generalized non-homogeneous Mathieu equation. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 58-71.	3.3	31
26	Multi-frequency excitation of stiffened triangular plates for large amplitude oscillations. Journal of Sound and Vibration, 2014, 333, 5817-5835.	3.9	30
27	Response of the beams on random Pasternak foundations subjected to harmonic moving loads. Journal of Mechanical Science and Technology, 2009, 23, 3013-3023.	1.5	29
28	Enhancement of the vibro-acoustic performance of anti-tetra-chiral auxetic sandwich panels using topologically optimized local resonators. Applied Acoustics, 2021, 177, 107930.	3.3	29
29	Analytical approximate solutions for the generalized nonlinear oscillator. Applicable Analysis, 2012, 91, 965-977.	1.3	28
30	Nonlinear harmonic vibration and stability analysis of a cantilever beam carrying an intermediate lumped mass. Nonlinear Dynamics, 2016, 84, 1667-1682.	5.2	28
31	Passive Vibration Control of Beams Subjected to Random Excitations with Peaked PSD. JVC/Journal of Vibration and Control, 2006, 12, 941-953.	2.6	27
32	Performance Analysis of Multiple Trenches in Train-Induced Wave Mitigation. Journal of Low Frequency Noise Vibration and Active Control, 2014, 33, 47-63.	2.9	26
33	Nonlinear vibration analysis of harmonically excited cracked beams on viscoelastic foundations. Nonlinear Dynamics, 2013, 71, 109-120.	5.2	24
34	Nonlocal effect in carbon nanotube resonators: A comprehensive review. Advances in Mechanical Engineering, 2017, 9, 168781401668692.	1.6	24
35	Dynamic analysis of a partially filled tanker train travelling on a curved track. International Journal of Heavy Vehicle Systems, 2010, 17, 331.	0.2	22
36	Vibroacoustic analysis of a sandwich panel coupled with an enclosure cavity. Composite Structures, 2016, 146, 159-175.	5.8	22

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37	Dynamic Analysis of a Plate on the Generalized Foundation with Fractional Damping Subjected to Random Excitation. Mathematical Problems in Engineering, 2018, 2018, 1-10.	1.1	22
38	Auxetic clamped-clamped resonators for high-efficiency vibration energy harvesting at low-frequency excitation. Applied Energy, 2021, 295, 117010.	10.1	22
39	Analytical solution for nonlinear wave propagation in shallow media using the variational iteration method. Waves in Random and Complex Media, 2012, 22, 133-142.	2.7	20
40	Nonlinear harmonic vibration analysis of a plate-cavity system. Nonlinear Dynamics, 2013, 74, 1267-1279.	5.2	20
41	Vibration suppression of curved beams traversed by off-center moving loads. Journal of Sound and Vibration, 2015, 352, 1-15.	3.9	19
42	Chaotic vibrations of beams on nonlinear elastic foundations subjected to reciprocating loads. Mechanics Research Communications, 2015, 69, 121-128.	1.8	19
43	Frequency analysis of the nonlinear viscoelastic plates subjected to subsonic flow and external loads. Thin-Walled Structures, 2015, 92, 65-75.	5.3	19
44	A new methodology in fast and accurate matching of the 2D and 3D point clouds extracted by laser scanner systems. Optics and Laser Technology, 2015, 66, 28-34.	4.6	18
45	Chaos prediction in nonlinear viscoelastic plates subjected to subsonic flow and external load using extended Melnikov's method. Nonlinear Dynamics, 2016, 84, 1163-1179.	5.2	17
46	Analytical Methods in Nonlinear Oscillations. Solid Mechanics and Its Applications, 2019, , .	0.2	17
47	Periodic Solutions for the Generalized Nonlinear Oscillators containing Fraction Order Elastic Force. International Journal of Nonlinear Sciences and Numerical Simulation, 2010, 11, .	1.0	16
48	Nonlinear vibration analysis of isotropic plate with inclined part-through surface crack. Nonlinear Dynamics, 2014, 78, 2377-2397.	5.2	16
49	Application of a Bayesian algorithm for the Statistical Energy model updating of a railway coach. Applied Acoustics, 2016, 112, 84-107.	3.3	16
50	Application of an optimal wavelet transformation for rail-fastening system identification in different preloads. Measurement: Journal of the International Measurement Confederation, 2016, 82, 161-175.	5.0	16
51	Effects of the trench geometry on vibration mitigation level in high-speed railway tracks. Journal of Mechanical Science and Technology, 2012, 26, 2469-2476.	1.5	14
52	Vibro-acoustic analysis of a coach platform under random excitation. Thin-Walled Structures, 2015, 95, 287-296.	5.3	14
53	Vibro-Acoustic Analysis and Topology Optimization of Anti-Tetra Chiral Auxetic Lattices Driven by Different Colored Noises. International Journal of Structural Stability and Dynamics, 2020, 20, 2050113.	2.4	14
54	Nonlinear Oscillations Analysis of the Elevator Cable in a Drum Drive Elevator System. Advances in Applied Mathematics and Mechanics, 2015, 7, 43-57.	1.2	13

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55	Defected meta-lattice structures for the enhanced localized vibrational energy harvesting. Nano Energy, 2022, 100, 107488.	16.0	13
56	Importance of flexural mode shapes in dynamic analysis of high-speed trains traveling on bridges. JVC/Journal of Vibration and Control, 2014, 20, 1565-1583.	2.6	12
57	Broad-Band Noise Mitigation in Vibrating Annular Plates by Dynamic Absorbers. International Journal of Structural Stability and Dynamics, 2016, 16, 1550014.	2.4	12
58	3D transient elasto-plastic finite element analysis of a flatted railway wheel in rolling contact. Mechanics Based Design of Structures and Machines, 2018, 46, 751-766.	4.7	11
59	Bayesian framework for simultaneous input/state estimation in structural and mechanical systems. Structural Control and Health Monitoring, 2019, 26, e2379.	4.0	11
60	A High Accuracy and High Speed Imaging and Measurement System for Rail Corrugation Inspection. IEEE Transactions on Industrial Electronics, 2021, 68, 8894-8903.	7.9	10
61	Optimal passive vibration control of Timoshenko beams with arbitrary boundary conditions traversed by moving loads. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2008, 222, 179-188.	0.8	9
62	Optimized T-Shape and Y-Shape Inclined Sound Barriers for Railway Noise Mitigation. Journal of Low Frequency Noise Vibration and Active Control, 2014, 33, 357-370.	2.9	9
63	Vibration analysis of circular annular plates subjected to peripheral rotating transverse loads. JVC/Journal of Vibration and Control, 2015, 21, 1443-1455.	2.6	9
64	A new methodology for the estimation of wheel–rail contact forces at a high-frequency range. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 2353-2370.	2.0	9
65	Interaction of surface waves with an actuated submerged flexible plate: Optimization for wave energy extraction. Journal of Fluids and Structures, 2018, 81, 673-692.	3.4	9
66	Full-Gradient Optimization of the Vibroacoustic Performance of (Non-)auxetic Sandwich Panels. Transport in Porous Media, 2022, 142, 139-156.	2.6	9
67	Bistable wind-induced vibration energy harvester for self-powered wireless sensors in smart bridge monitoring systems. , 2019, , .		9
68	Nonlinear Vibration and Comfort Analysis of High-Speed Trains Moving Over Railway Bridges. , 2004, , 237.		8
69	Design and simulation of a magnetohydrodynamic micro-pump to provide time varying tensile force for vibration suppression in viscoelastic micro-beams. Journal of Mechanical Science and Technology, 2019, 33, 2149-2159.	1.5	8
70	A novel low-frequency multi-bandgaps metaplate: Genetic algorithm based optimization and experimental validation. Mechanical Systems and Signal Processing, 2022, 181, 109495.	8.0	8
71	Optimal placement of active bars in smart structures. , 0, , .		7
72	Fatigue life estimation of MD36 and MD523 bogies based on damage accumulation and random fatigue theory. Journal of Mechanical Science and Technology, 2009, 23, 2149-2156.	1.5	7

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73	NONLINEAR VIBRATION OF A THREE-DIMENSIONAL MOVING GANTRY CRANE SUBJECTED TO A TRAVELLING TROLLEY HOISTING A SWINGING OBJECT. Transactions of the Canadian Society for Mechanical Engineering, 2010, 34, 333-350.	0.8	7
74	Optimal strain gauge placement in instrumented wheelset for measuring wheel-rail contact forces. International Journal of Precision Engineering and Manufacturing, 2017, 18, 1519-1527.	2.2	7
75	Vibro-acoustic numerical analysis for the geometrically nonlinear viscoelastic rectangular plate subjected to subsonic compressible airflow. Applied Acoustics, 2021, 174, 107779.	3.3	7
76	Forced Vibration Analysis of Spinning Disks Subjected to Transverse Loads. International Journal of Structural Stability and Dynamics, 2015, 15, 1450049.	2.4	6
77	Vibration suppression of atomic-force microscopy cantilevers covered by a piezoelectric layer with tensile force. Journal of Mechanical Science and Technology, 2018, 32, 4135-4144.	1.5	6
78	Multi-resonance analysis of a viscoelastically supported orthotropic plate with an inclined crack. Nonlinear Dynamics, 2019, 96, 1717-1734.	5.2	6
79	Acoustic performance enhancement in a railway passenger carriage using hybrid ray-tracing and image-source method. Applied Acoustics, 2020, 170, 107527.	3.3	6
80	Application of the meta-substrates for power amplification in rotary piezoelectric energy harvesting systems: Design, fabrication and testing. Energy Reports, 2022, 8, 5653-5667.	5.1	6
81	Tangential force variation due to the bogie direction reversal procedure. Vehicle System Dynamics, 2007, 45, 359-373.	3.7	5
82	Application of the Nonlinear Energy Sink Systems in Vibration Suppression of Railway Bridges. , 2010, , .		5
83	Vibro-Acoustic Analysis of the Railway Tracks with Fractional Railpads and Nonlinear Ballast. International Journal of Structural Stability and Dynamics, 2017, 17, 1750105.	2.4	5
84	A new flexible laser beam profiler for the inspection of train wheels. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 215-225.	2.0	5
85	Vibro-acoustic response analysis of fractional railpads in frequency domain. Mechanics Based Design of Structures and Machines, 2021, 49, 286-303.	4.7	5
86	Nonlinear vibrations of an inclined beam subjected to a moving load. Journal of Physics: Conference Series, 2009, 181, 012094.	0.4	4
87	Analytical Solutions for Nonlinear Lateral Sloshing in Partially-Filled Elliptical Tankers. , 2011, , .		4
88	Suppression of Train Wheel Squeal Noise by Shunted Piezoelectric Elements. International Journal of Structural Stability and Dynamics, 2017, 17, 1750027.	2.4	4
89	Interaction of Higher Modes in Nonlinear Free Vibration of Stiffened Rectangular Plates. , 2017, ,		4
90	Modeling temperature evolution of wheel flat during formation. International Journal of Thermal Sciences, 2019, 140, 114-126.	4.9	4

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91	Spectral Optimization of High-Speed Train Suspension Systems. International Journal of Vehicle Structures and Systems, 2009, 1, .	0.2	3
92	Large Amplitude Free Vibration Analysis of Nanotubes Using Variational and Homotopy Methods. , 2013, , ,		3
93	Analytical Solution for the Sound Radiation Field of a Viscoelastically Supported Beam Traversed by a Moving Load. Shock and Vibration, 2014, 2014, 1-7.	0.6	3
94	Performance Analysis of Piezoelectric Actuators in Railway Wheel Squealing Noise Mitigation. Shock and Vibration, 2019, 2019, 1-13.	0.6	3
95	Inlay-inspired meta-piezoelectric plates for the low-frequency vibration energy harvesting. Journal of Materials Science: Materials in Electronics, 2022, 33, 2909-2920.	2.2	3
96	Response of a suspended cable to narrow-band random excitation with peaked P.S.D Mathematical and Computer Modelling, 2005, 41, 1203-1212.	2.0	2
97	Application of the Delayed Resonators in Active Suspension Systems of High-Speed Trains. , 2006, , 267.		2
98	Sensitivity Analysis of the Rectangular Trenches Employed in Suppression of the High-Speed Train-Induced Ground Vibrations. , 2010, , .		2
99	Dynamic analysis of composite beam subjected to harmonic moving load based on the third-order shear deformation theory. Frontiers of Mechanical Engineering, 2011, 6, 409-418.	4.3	2
100	Analytical Solutions for Oscillation of Rectangular Plate on a Nonlinear Winkler Foundation. , 2011, , \cdot		2
101	Nonlinear Longitudinal Vibration Solutions of an Elastic Rod. , 2013, , .		2
102	Nonlinear free vibration analysis of a double-walled carbon nanotube. , 2014, , .		2
103	Dynamic Behavior of Carbon Nanotubes Using Nonlocal Rayleigh Beam. , 2014, , .		2
104	Chaos control for the plates subjected to subsonic flow. Regular and Chaotic Dynamics, 2016, 21, 437-454.	0.8	2
105	Analytical Formulation for Temperature Evolution in Flat Wheel-Rail Sliding Surfaces. Mathematical Problems in Engineering, 2018, 2018, 1-7.	1.1	2
106	A Novel Method for Laser Peak Detection with Subpixel Accuracy for the Rail Corrugation Measurement. Journal of Sensors, 2021, 2021, 1-16.	1.1	2
107	Internal Resonance of Finite Beams on Nonlinear Foundations Traversed by a Moving Load. , 2008, , .		2

108 Adaptive Key Frame Selection Wyner-Ziv Video Coding. , 2005, , .

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109	Ride Quality of High-Speed Trains Traveling Over the Corrugated Rails. , 2006, , 145.		1
110	Effects of the Load Distribution Patterns on the Longitudinal Freight Train Dynamics. , 2007, , 1019.		1
111	On-Track Measurement of Lateral/Vertical Wheel Loads of Running Railway Vehicles Based on the Neural Network. , 2008, , .		1
112	Nonlinear Free Vibration Analysis of a Fluid-Conveying Microtube. , 2014, , .		1
113	Novel control strategies for roll/pitch stabilization of tank wagons. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 151-164.	2.0	1
114	Dynamic Analysis of Nonlinear Elastically Supported von-KÃrmÃn Plates Subjected to Subsonic Flow. Procedia Engineering, 2017, 199, 765-771.	1.2	1
115	Approximate solution for acoustic scattering by a nonlinear composite beam. Nonlinear Dynamics, 2018, 93, 1407-1419.	5.2	1
116	Vibration Analysis of Oscillators with Generalized Inertial and Geometrical Nonlinearities. , 2018, , 147-166.		1
117	Semi-inverse and Variational Methods. Solid Mechanics and Its Applications, 2019, , 151-195.	0.2	1
118	Sound Radiation Mitigation of Geometrically Nonlinear Plates Subjected to Subsonic Airflow. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	1
119	Nonlinear vibration of laminated composite plates subjected to subsonic flow and external loads. Steel and Composite Structures, 2016, 22, 1261-1280.	1.3	1
120	Analytical Modeling of Transverse Vibrations and Acoustic Pressure Mitigation for Rotating Annular Disks. Mathematical Problems in Engineering, 2022, 2022, 1-17.	1.1	1
121	Passive Control of Vibration of Elastically Supported Beams Subjected to Moving Loads. , 2005, , 153.		Ο
122	Transition Curves for Nonhomogeneous Mathieu Equation. , 2005, , 243.		0
123	Effects of Coupler Specifications and Operational Conditions on the Longitudinal Freight Train Dynamics. , 2007, , 1279.		Ο
124	Random Fatigue Failure of MD36 and MD523 Bogie Frames Due to Rail Corrugations. , 2008, , .		0
125	Effects of Partially-Filled Containers in Dynamic Behavior of Tanker Trains Traveling on Curved Tracks. , 2008, , .		0
126	Application of Time-Increasing Internal Pressure in Vibration Reduction of Viscoelastic Rotary Beams. , 2010, , .		0

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127	Random Base Excitation of Timoshenko Beam Traversed by Moving Load. , 2011, , .		0
128	Large Amplitude Vibration Analysis of Shear Deformable FGM Cylindrical Shell. , 2012, , .		0
129	Nonlinear Vibration Analysis and Approximate Solution of Micro-Beams. , 2013, , .		0
130	Nonlinear Vibration Solutions of Nano-Beams Considering Surface Effects. , 2013, , .		0
131	Application of Variational Iteration Method in Nonlinear Free Vibration Analysis of Multi-Layered Nano-Scale Graphene Sheets. , 2014, , .		0
132	Nonlinear Forced Vibration of Carbon Nanotubes Considering Thermal Effects. , 2014, , .		0
133	Nonlinear Forced Vibration Analysis of Fluid Conveying Nanotubes Under Electromagnetic Actuation. , 2014, , .		0
134	Nonlinear Harmonic Vibration Analysis of a Fully Clamped Micro-Beam. , 2015, , .		0
135	Analytical Solutions for Nonlinear Free Vibration of Micro-Scale Timoshenko Beams. , 2016, , .		0
136	Classical Methods. Solid Mechanics and Its Applications, 2019, , 29-71.	0.2	0
137	Energy Balance Methods. Solid Mechanics and Its Applications, 2019, , 73-122.	0.2	Ο
138	Residual Methods. Solid Mechanics and Its Applications, 2019, , 123-150.	0.2	0
139	Integral Based Methods. Solid Mechanics and Its Applications, 2019, , 197-247.	0.2	0
140	Nonlinearities in Nano- and Microsystems. Solid Mechanics and Its Applications, 2019, , 249-286.	0.2	0
141	On the Placement of Active Bars and Optimal Feedback Gain in Random Adaptive Structures for Vibration Suppression. , 2005, , .		0