

Hong Hee Yoo

List of Publications by Year in descending order

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100
papers

1,314
citations

430442

18
h-index

433756

31
g-index

100
all docs

100
docs citations

100
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic model for free vibration and response analysis of rotating beams. <i>Journal of Sound and Vibration</i> , 2013, 332, 5917-5928.	2.1	91
2	Vibration analysis of rotating pretwisted tapered blades made of functionally graded materials. <i>International Journal of Mechanical Sciences</i> , 2016, 119, 68-79.	3.6	64
3	Vibration analysis of rotating pre-twisted blades. <i>Computers and Structures</i> , 2001, 79, 1811-1819.	2.4	62
4	Control system for maximum use of adhesive forces of a railway vehicle in a tractive mode. <i>Mechanical Systems and Signal Processing</i> , 2008, 22, 709-720.	4.4	55
5	Piezoelectric energy harvesting system with magnetic pendulum movement for self-powered safety sensor of trains. <i>Sensors and Actuators A: Physical</i> , 2016, 250, 210-218.	2.0	51
6	Vibration localization of simplified mistuned cyclic structures undertaking external harmonic force. <i>Journal of Sound and Vibration</i> , 2003, 261, 859-870.	2.1	49
7	Vibrations of an Axially Moving Beam with Deployment or Retraction. <i>AIAA Journal</i> , 2013, 51, 686-696.	1.5	47
8	Vibration analysis of a rotating pre-twisted blade considering the coupling effects of stretching, bending, and torsion. <i>Journal of Sound and Vibration</i> , 2018, 431, 20-39.	2.1	43
9	Flapwise bending vibration analysis of rotating multi-layered composite beams. <i>Journal of Sound and Vibration</i> , 2005, 286, 745-761.	2.1	40
10	Free Vibration Analysis of Rotating Cantilever Plates. <i>AIAA Journal</i> , 2002, 40, 2188-2196.	1.5	39
11	Modal analysis and shape optimization of rotating cantilever beams. <i>Journal of Sound and Vibration</i> , 2006, 290, 223-241.	2.1	34
12	Modeling of Adhesion for Railway Vehicles. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 1017-1034.	1.4	26
13	Aero-thermo-mechanical characteristics of imperfect shape memory alloy hybrid composite panels. <i>Journal of Sound and Vibration</i> , 2009, 325, 583-596.	2.1	24
14	Flapwise bending vibration analysis of rotating composite cantilever beams. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 240-245.	0.4	22
15	Shape optimization of bowtie-shaped auxetic structures using beam theory. <i>Composite Structures</i> , 2019, 224, 111020.	3.1	22
16	Modal analysis of constrained multibody systems undergoing rotational motion. <i>Journal of Sound and Vibration</i> , 2005, 280, 63-76.	2.1	21
17	Numerical calculation of temperature in the wheel-rail flange contact and implications for lubricant choice. <i>Wear</i> , 2010, 268, 287-293.	1.5	21
18	Design of hydro electromagnetic and piezoelectric energy harvesters for a smart water meter system. <i>Sensors and Actuators A: Physical</i> , 2017, 261, 261-267.	2.0	21

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19	A Bending-Type Piezoelectric Energy Harvester with a Displacement-Amplifying Mechanism for Smart Highways. <i>Journal of the Korean Physical Society</i> , 2018, 73, 330-337.	0.3	21
20	Uncertainty analysis of nonlinear systems employing the first-order reliability method. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 39-44.	0.7	20
21	Flexibility modeling of a beam undergoing large deflection using the assumed mode method. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 611-618.	3.6	19
22	A High Efficient Piezoelectric Windmill using Magnetic Force for Low Wind Speed in Wireless Sensor Networks. <i>Journal of the Korean Physical Society</i> , 2018, 73, 1889-1894.	0.3	19
23	Propeller-based Underwater Piezoelectric Energy Harvesting System for an Autonomous IoT Sensor System. <i>Journal of the Korean Physical Society</i> , 2020, 76, 251-256.	0.3	19
24	Modal analysis of a rotating multi-packet blade system. <i>Journal of Sound and Vibration</i> , 2009, 325, 513-531.	2.1	18
25	Unified synthesis of a planar four-bar mechanism for function generation using a spring-connected arbitrarily sized block model. <i>Mechanism and Machine Theory</i> , 2012, 49, 141-156.	2.7	18
26	Electromechanical modeling and power performance analysis of a piezoelectric energy harvester having an attached mass and a segmented piezoelectric layer. <i>Smart Materials and Structures</i> , 2017, 26, 035035.	1.8	18
27	Thermo-acoustic random response of temperature-dependent functionally graded material panels. <i>Computational Mechanics</i> , 2010, 46, 377-386.	2.2	17
28	Stability analysis for the flapwise motion of a cantilever beam with rotary oscillation. <i>Journal of Sound and Vibration</i> , 2004, 273, 1047-1062.	2.1	16
29	Eulerian and lagrangian descriptions for the vibration analysis of a deploying beam. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 2637-2643.	0.7	14
30	Vibration analysis of rotating cantilever beams orienting inward. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 4177-4184.	0.7	14
31	Design of optimized cantilever form of a piezoelectric energy harvesting system for a wireless remote switch. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 340-349.	2.0	14
32	Experimentally derived viscoelastic properties of human skin and muscle in vitro. <i>Medical Engineering and Physics</i> , 2018, 61, 25-31.	0.8	14
33	Dynamic Analysis of Flexible Beams Undergoing Overall Motion Employing Linear Strain Measures. <i>AIAA Journal</i> , 2002, 40, 319-326.	1.5	13
34	Vibration analysis of rotating composite cantilever plates. <i>Journal of Mechanical Science and Technology</i> , 2002, 16, 320-326.	0.4	13
35	Structural dynamic modeling and stability of a rotating blade under gravitational force. <i>Journal of Sound and Vibration</i> , 2013, 332, 2688-2700.	2.1	13
36	Unified mechanism synthesis method of a planar four-bar linkage for path generation employing a spring-connected arbitrarily sized rectangular block model. <i>Multibody System Dynamics</i> , 2014, 31, 241-256.	1.7	12

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37	Mode and transient response localization occurred in rotating multi-packet blade systems due to random mistuning. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 2063-2071.	1.1	12
38	Vibration localization of a mistuned rotating multi-packet blade system undergoing external cyclic harmonic force. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 2769-2774.	0.7	11
39	Stochastic inverse method to identify parameter random fields in a structure. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 1557-1571.	1.7	11
40	Development of a Multi-body Dynamics Simulation Tool for Tracked Vehicles (Part II, Application to) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Elements and Manufacturing, 2003, 46, 550-556.	0.3	10
41	Modal analysis of cantilever plates undergoing accelerated in-plane motion. <i>Journal of Sound and Vibration</i> , 2006, 297, 880-894.	2.1	10
42	Body guidance syntheses of four-bar linkage systems employing a spring-connected block model. <i>Mechanism and Machine Theory</i> , 2015, 85, 147-160.	2.7	10
43	Stochastic modeling of friction force and vibration analysis of a mechanical system using the model. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 3645-3652.	0.7	10
44	Investigation of the energy harvesting performance of a Lambda-shaped piezoelectric energy harvester using an analytical model validated experimentally. <i>Smart Materials and Structures</i> , 2021, 30, 075017.	1.8	10
45	Design variable tolerance effects on the natural frequency variance of constrained multi-body systems in dynamic equilibrium. <i>Journal of Sound and Vibration</i> , 2009, 320, 545-558.	2.1	9
46	Dynamic modeling and stability analysis of an axially oscillating beam undergoing periodic impulsive force. <i>Journal of Sound and Vibration</i> , 2009, 320, 254-272.	2.1	9
47	Two-stage design process of a frame-panel land vehicle structure employing topology and cross section optimization. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1963-1967.	0.7	9
48	Design of a vibrating MEMS gyroscope considering design variable uncertainties. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 2175-2180.	0.7	9
49	Transient vibration characteristics of a rotating multi-packet blade system excited by multiple nozzle forces. <i>International Journal of Mechanical Sciences</i> , 2014, 83, 76-90.	3.6	9
50	Stochastic modeling and vibration analysis of rotating beams considering geometric random fields. <i>Journal of Sound and Vibration</i> , 2017, 388, 105-122.	2.1	9
51	Analysis and design of a torsional vibration isolator for rotating shafts. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 4627-4634.	0.7	9
52	Modal analysis of a multi-blade system undergoing rotational motion. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 2051-2058.	0.7	8
53	Hilbert-Huang Transform (HHT) transient analysis of composite panel undergoing high-velocity impact. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 2395-2400.	0.7	8
54	Ride comfort uncertainty analysis and reliability design of a passenger vehicle undergoing random road excitation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2013, 227, 433-442.	1.1	8

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55	Equilibrium and modal analyses of rotating multibeam structures employing multiple reference frames. <i>Journal of Sound and Vibration</i> , 2007, 302, 789-805.	2.1	7
56	Robust Design in Multibody Dynamics – Application to Vehicle Ride-comfort Optimization. <i>Procedia IUTAM</i> , 2015, 13, 90-97.	1.2	7
57	Generalized classical Ritz method for modeling geometrically nonlinear flexible multibody systems having a general topology. <i>International Journal of Mechanical Sciences</i> , 2020, 181, 105687.	3.6	7
58	In-plane vibration analysis of cantilevered circular arc beams undergoing rotational motion. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 113-119.	0.7	6
59	Investigation of influence of constraints with radius links on locomotive axle load distribution and wheelset steering ability. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1903-1913.	0.7	6
60	Segmented impact-type piezoelectric energy harvester for self-start impedance matching circuit. <i>Smart Materials and Structures</i> , 2018, 27, 114006.	1.8	6
61	Nonlinear structural analysis of a flexible multibody system using the classical Rayleigh-Ritz method. <i>International Journal of Non-Linear Mechanics</i> , 2019, 110, 69-80.	1.4	6
62	Mistuned coupling stiffness effect on the vibration localization of cyclic systems. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 269-275.	0.7	5
63	Analysis of the effects of main design parameters variation on the vibration characteristics of a vehicle sub-frame. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 960-963.	0.7	5
64	Study of impact energy propagation phenomenon and modal characteristics of an armored vehicle undergoing high velocity impact. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 964-967.	0.7	5
65	Robust motion profiles for the residual vibration reduction of an undamped system. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 4647-4656.	0.7	5
66	Computational method for dynamic analysis of constrained mechanical systems using partial velocity matrix transformation. <i>Journal of Mechanical Science and Technology</i> , 2000, 14, 159-167.	0.4	4
67	Statistical characteristics of frequency response localization in nearly periodic systems. <i>Journal of Sound and Vibration</i> , 2006, 294, 1039-1050.	2.1	4
68	Estimation of muscle and joint forces in the human lower extremity during rising motion from a seated position. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 467-472.	0.7	4
69	Modeling of stretch reflex activation considering muscle type. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 65, 1-1.	2.5	4
70	Vibration analysis of cantilever plates undergoing translationally accelerated motion. <i>Journal of Mechanical Science and Technology</i> , 2002, 16, 448-453.	0.4	3
71	Development of multiple performance indices and system parameter study for the design of a MEMS accelerometer. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 31-37.	0.7	3
72	Precision fault diagnosis procedure for a structural system having a defect employing Hidden Markov Models. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1667-1673.	1.1	3

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73	Modeling and performance analysis of a novel M-shaped piezoelectric energy harvester employing magnets. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 3553-3563.	0.7	3
74	Blade fault diagnosis using Mahalanobis distance. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 1377-1385.	0.7	3
75	Dynamic Modeling of a Front-Loading Type Washing Machine and Model Reliability Investigation. <i>Machines</i> , 2021, 9, 289.	1.2	3
76	Steady-state equilibrium analysis of a multibody system driven by constant generalized speeds. <i>Journal of Mechanical Science and Technology</i> , 2002, 16, 1239-1245.	0.4	2
77	Dynamic analysis of multi-body systems considering probabilistic properties. <i>Journal of Mechanical Science and Technology</i> , 2005, 19, 350-356.	0.7	2
78	Effect of manufacturing tolerances on dynamic equilibria of multibody systems undergoing prescribed rotational motion. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 1747-1756.	0.7	2
79	Manufacturing yield and cost estimation of a MEMS accelerometer based on statistical uncertainty analysis. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 429-435.	0.7	2
80	Identification of location and size of a defect in a structural system employing active external excitation and hybrid feature vector components in HMM. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2427-2433.	0.7	2
81	Reliability design of multibody systems using sample-based extreme value theory. <i>Multibody System Dynamics</i> , 2016, 37, 413-440.	1.7	2
82	In vivo viscoelastic properties of human thigh under compression estimated by experimental results obtained with pendulum test. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 1253-1262.	1.1	2
83	Simple vibration model for the design of a vertical axis wind turbine. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 511-520.	0.7	2
84	Shape optimization of rotating cantilever beams considering their varied modal characteristics. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 246-252.	0.4	1
85	Statistical approach to analyze vibration localization phenomena in periodic structural systems. <i>Journal of Mechanical Science and Technology</i> , 2005, 19, 1405-1413.	0.7	1
86	Modal Analysis of Rotating Beam Structures Having Complex Configurations Employing Multi-Reference Frames. <i>Journal of Mechanical Science and Technology</i> , 2006, 20, 66-75.	0.7	1
87	Tolerance effects on natural frequencies of multibody systems undergoing constant rotational motion. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 2163-2170.	0.7	1
88	F-6-4-2 Linearization and Vibration Analysis of Constrained Multibody Systems with Constant Generalized Speeds. <i>The Proceedings of the Asian Conference on Multibody Dynamics</i> , 2002, 2002, 587-592.	0.0	0
89	Modal analysis of constrained multibody systems undergoing constant accelerated motions. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 1086-1093.	0.4	0
90	The Effect of Parameter Distribution Pattern on Frequency Response Localization in Nearly Periodic Systems. <i>Key Engineering Materials</i> , 2006, 321-323, 1564-1567.	0.4	0

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91	59325 RELIABILITY ANALYSIS OF THE TRUCK FRAME FE MODEL CONSIDERING THE STATISTICALLY DISTRIBUTED DESIGN VARIABLES(Flexible Multibody Dynamics). The Proceedings of the Asian Conference on Multibody Dynamics, 2010, 2010.5, _59325-1_-_59325-7_.	0.0	0
92	1C23 Performance Uncertainty Estimation of a Nonlinear Vibration System. The Proceedings of the Symposium on the Motion and Vibration Control, 2010, 2010, _1C23-1_-_1C23-7_.	0.0	0
93	3A32 Vibration of gas turbine blades made-up of functionally graded materials considering operating temperatures(The 12th International Conference on Motion and Vibration Control). The Proceedings of the Symposium on the Motion and Vibration Control, 2014, 2014.12, _3A32-1_-_3A32-8_.	0.0	0
94	Reply by the Authors to H. Hua, Z. Liao, and M. Qiu. AIAA Journal, 2017, 55, 1083-1083.	1.5	0
95	Survivability assessment of a soldier wearing a ballistic helmet collided by a non-penetrating high speed projectile. Journal of Mechanical Science and Technology, 2018, 32, 2425-2433.	0.7	0
96	Vibration-Based Uniform Curvature Piezoelectric Energy Harvester. , 2021, , 207-210.		0
97	Design Scalability Study of the $\hat{\Gamma}^c$ -Shaped Piezoelectric Harvester Based on Generalized Classical Ritz Method and Optimization. Electronics (Switzerland), 2021, 10, 1887.	1.8	0
98	2D16 Analysis on Effects of Design Variable Uncertainty on the Performance of MEMS Gyroscope Based on Sample Statistics. The Proceedings of the Symposium on the Motion and Vibration Control, 2010, 2010, _2D16-1_-_2D16-7_.	0.0	0
99	4A14 Vibration Localization of a Rotating Multi-Packet Blade System with Random Mistuning. The Proceedings of the Symposium on the Motion and Vibration Control, 2010, 2010, _4A14-1_-_4A14-10_.	0.0	0
100	3A15 Vibration Localization of a Multi-packet Blade System(The 12th International Conference on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Control, 2014, 2014.12, _3A15-1_-_3A15-7_.	0.0	0