

# Jae-Hung Han

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/149185/publications.pdf>

Version: 2024-02-01

231  
papers

4,434  
citations

136950

32  
h-index

138484

58  
g-index

234  
all docs

234  
docs citations

234  
times ranked

3397  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aeroelastic Behavior of Two Airfoils in Proximity. AIAA Journal, 2022, 60, 2522-2532.	2.6	3
2	Automated Aerial Docking System using Vision-Based Deep Learning. , 2022, , .		0
3	Self-Reconfiguring and Stiffening Origami Tube. Advanced Engineering Materials, 2022, 24, .	3.5	13
4	Automated Aerial Docking System Using Onboard Vision-Based Deep Learning. Journal of Aerospace Information Systems, 2022, 19, 421-436.	1.4	5
5	Aerodynamic characteristics of flexible flapping wings depending on aspect ratio and slack angle. Physics of Fluids, 2022, 34, .	4.0	3
6	10.1063/5.0094820.1. , 2022, , .		0
7	10.1063/5.0094820.2. , 2022, , .		0
8	Publisher's Note: "Aerodynamic characteristics of flexible flapping wings depending on aspect ratio and slack angle" [Phys. Fluids 34(2022), 051911 (2022)]. Physics of Fluids, 2022, 34, .	4.0	1
9	Effective elastic, thermoelastic, and piezoelectric properties of braided composites using equivalent laminate modeling. Advanced Composite Materials, 2021, 30, 338-364.	1.9	1
10	Development of a cable suspension and balance system and its novel calibration methods for effective wind tunnel tests. Measurement: Journal of the International Measurement Confederation, 2021, 170, 108717.	5.0	5
11	Ground Effect on Flutter and Limit Cycle Oscillation of Airfoil with Flap. Journal of Aircraft, 2021, 58, 688-692.	2.4	3
12	Effects of sweep-motion profile on rigid and flexible flapping-wing aerodynamics. , 2021, , .		1
13	Performance Optimization of a Split-Type Low-Shock Separation Bolt. Journal of Spacecraft and Rockets, 2021, 58, 232-239.	1.9	2
14	New Approach to Folding a Thin-Walled Yoshimura Patterned Cylinder. Journal of Spacecraft and Rockets, 2021, 58, 516-530.	1.9	18
15	Deployable truss structure with flat-form storability using scissor-like elements. Mechanism and Machine Theory, 2021, 159, 104252.	4.5	24
16	Design and Prototyping of Rotational Bi-Stable Mechanism Using Permanent Magnets. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	0
17	Cable Suspension and Balance System with Low Support Interference and Vibration for Effective Wind Tunnel Tests. International Journal of Aeronautical and Space Sciences, 2021, 22, 1048-1061.	2.0	2
18	Study on robust aerial docking mechanism with deep learning based drogue detection and docking. Mechanical Systems and Signal Processing, 2021, 154, 107579.	8.0	14

#	ARTICLE	IF	CITATIONS
19	Effectiveness Analysis of Spin Motion in Reducing Dispersion of Sounding Rocket Flight due to Thrust Misalignment. <i>International Journal of Aeronautical and Space Sciences</i> , 2021, 22, 1194-1208.	2.0	4
20	Roles of wing flexibility and kinematics in flapping wing aerodynamics. <i>Journal of Fluids and Structures</i> , 2021, 104, 103317.	3.4	23
21	Dynamic Stability and Flight Control of Biomimetic Flapping-Wing Micro Air Vehicle. <i>Aerospace</i> , 2021, 8, 362.	2.2	7
22	Shock Reduction Technique on Thin Plate Structure by Wave Refraction Using an Elastic Patch. <i>Shock and Vibration</i> , 2021, 2021, 1-14.	0.6	2
23	Development of ground vibration test based flutter emulation technique. <i>Aeronautical Journal</i> , 2020, 124, 1436-1461.	1.6	9
24	Development of shock-absorbing insert for honeycomb sandwich panel. <i>Aerospace Science and Technology</i> , 2020, 104, 105930.	4.8	14
25	Self-learning MAV Under Safety-guaranteed Flight Test Environment. , 2020, , .		1
26	Separation Behavior of Pyrotechnically Actuated Device Considering Small-Volume Effect of Combustion Chamber. <i>Journal of Spacecraft and Rockets</i> , 2020, 57, 823-834.	1.9	3
27	Aerodynamic performance of flexible flapping wings deformed by slack angle. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 066005.	2.9	6
28	Experimental and numerical study on shock reduction on thin plate with elastic patch. , 2020, , .		0
29	Design of Bi-stable Mechanism Using Cylindrical Permanent Magnets. <i>Journal of the Korean Society for Aeronautical &amp; Space Sciences</i> , 2020, 48, 343-354.	0.1	0
30	Vibration Analysis of SAR Antenna Reflectors During Satellite Maneuver. <i>Journal of the Korean Society for Aeronautical &amp; Space Sciences</i> , 2020, 48, 225-231.	0.1	0
31	Kinematic analysis of a deployable truss structure with flat-form storability. , 2020, , .		0
32	Development of a miniature point source pyroshock simulator. <i>Journal of Sound and Vibration</i> , 2020, 481, 115438.	3.9	6
33	Influence of aspect ratio on wing wake interaction for flapping wing in hover. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	10
34	A Neural-network-based Approach to Study the Energy-optimal Hovering Wing Kinematics of a Bionic Hawkmoth Model. <i>Journal of Bionic Engineering</i> , 2019, 16, 904-915.	5.0	11
35	A mathematical model for the separation behavior of a split type low-shock separation bolt. <i>Acta Astronautica</i> , 2019, 164, 393-406.	3.2	21
36	Selected papers from the 29th International Conference on Adaptive Structures and Technologies (ICAST 2018) (Seoul, Korea, 30 September–4 October 2018). <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2519-2520.	2.5	0

#	ARTICLE	IF	CITATIONS
37	Aerodynamic characteristics of flapping wings under steady lateral inflow. Journal of Fluid Mechanics, 2019, 870, 735-759.	3.4	10
38	The Effects of Wing Mass Asymmetry on Low-Speed Flight Characteristics of an Insect Model. International Journal of Aeronautical and Space Sciences, 2019, 20, 940-952.	2.0	4
39	Aerodynamic effects of deviating motion of flapping wings in hovering flight. Bioinspiration and Biomimetics, 2019, 14, 026006.	2.9	9
40	Interactions of the wakes of two flapping wings in hover. Physics of Fluids, 2019, 31, 021901.	4.0	19
41	A contralateral wing stabilizes a hovering hawkmoth under a lateral gust. Scientific Reports, 2019, 9, 17397.	3.3	10
42	Bidirectional actuation of buckled bistable beam using twisted string actuator. Journal of Intelligent Material Systems and Structures, 2019, 30, 506-516.	2.5	11
43	Performance optimization of a split type low-shock separation bolt. , 2019, , .		0
44	A two-dimensional modular deployable truss structure with bistability. Journal of Intelligent Material Systems and Structures, 2019, 30, 335-350.	2.5	8
45	Development of a variable-incidence-angle vortex generator for surface contaminated wind-turbine blades. , 2019, , .		0
46	Dynamic Modeling of Scissors Structure and Stiffness Analysis Based on Deployed Configuration. Journal of the Korean Society for Aeronautical & Space Sciences, 2019, 47, 405-413.	0.1	1
47	Wake Behavior Around Flapping Wings of Model Hawkmoth Moving Sideways. , 2019, , .		0
48	A Development and Assessment of Variable-Incidence Angle Vortex Generator at Low Reynolds Number of $\sim 10^4$ . International Journal of Aeronautical and Space Sciences, 2018, 19, 836-842.	2.0	5
49	Frequency-based damage detection in cantilever beam using vision-based monitoring system with motion magnification technique. Journal of Intelligent Material Systems and Structures, 2018, 29, 3923-3936.	2.5	19
50	Development of Pyroshock Simulator for Shock Propagation Test. Shock and Vibration, 2018, 2018, 1-13.	0.6	6
51	The Effects of Wakes on Aerodynamic Characteristics of Flapping Wings in Clap-and-Fling Motion at Re of $\sim 10^4$ . , 2018, , .		0
52	Panel Flutter Emulation Using a Few Concentrated Forces. International Journal of Aeronautical and Space Sciences, 2018, 19, 80-88.	2.0	3
53	Wing flexibility effects on the flight performance of an insect-like flapping-wing micro-air vehicle. Aerospace Science and Technology, 2018, 79, 468-481.	4.8	43
54	Study on pyroshock propagation through plates with joints and washers. Aerospace Science and Technology, 2018, 79, 441-458.	4.8	31

#	ARTICLE	IF	CITATIONS
55	Mathematical Model for the Separation Behavior of Low-Shock Separation Bolts. Journal of Spacecraft and Rockets, 2018, 55, 1208-1221.	1.9	16
56	Buckled bistable beam actuation with twisted strings. , 2018, , .		1
57	Transition flight control simulations of bioinspired FWMAV with extended unsteady vortex-lattice method. , 2018, , .		0
58	Conceptual design and dynamic analysis of bistable deployable structure. , 2018, , .		0
59	Study on a Spin Stabilization Technique Using a Spin Table. Journal of the Korean Society for Aeronautical & Space Sciences, 2018, 46, 419-426.	0.1	0
60	The Trim Condition of a Hovering Insect-like Flapping-wing Micro Air Vehicle in Asymmetric Condition. , 2017, , .		0
61	Development of flow separation control system to reduce the vibration of wind turbine blades. , 2017, , .		1
62	An aerodynamic model for insect flapping wings in forward flight. Bioinspiration and Biomimetics, 2017, 12, 036004.	2.9	25
63	Effect of body aerodynamics on the dynamic flight stability of the hawkmoth <i>Manduca sexta</i> . Bioinspiration and Biomimetics, 2017, 12, 016007.	2.9	16
64	Towing Tank Experiments for Flapping-Wing Aerodynamics. , 2017, , .		0
65	Dynamic Stability of Flapping-Wing Micro Air Vehicles With Unsteady Aerodynamic Model. , 2017, , .		0
66	Wind-Turbine Vibration Reduction Using Flow Control Devices. , 2017, , .		1
67	MSBS-SPR Integrated System Allowing Wider Controllable Range for Effective Wind Tunnel Test. International Journal of Aeronautical and Space Sciences, 2017, 18, 414-424.	2.0	11
68	Application of Artificial Neural Networks to Predict Dynamic Responses of Wing Structures due to Atmospheric Turbulence. International Journal of Aeronautical and Space Sciences, 2017, 18, 474-484.	2.0	5
69	Pyroshock Prediction of Ridge-Cut Explosive Bolts Using Hydrocodes. Shock and Vibration, 2016, 2016, 1-14.	0.6	18
70	Nondestructive evaluation of pyroshock propagation using hydrocodes. , 2016, , .		1
71	The advance ratio effect on the lift augmentations of an insect-like flapping wing in forward flight. Journal of Fluid Mechanics, 2016, 808, 485-510.	3.4	42
72	Extended Unsteady Vortex-Lattice Method for Insect Flapping Wings. Journal of Aircraft, 2016, 53, 1709-1718.	2.4	45

#	ARTICLE	IF	CITATIONS
73	Safety-Guaranteed Flight Test Environment for Micro Air Vehicles. AIAA Journal, 2016, 54, 1018-1029.	2.6	5
74	Compact piezoelectric tripod manipulator based on a reverse bridge-type amplification mechanism. Smart Materials and Structures, 2016, 25, 095028.	3.5	17
75	Effects of fluid-structure interaction on the aerodynamics of an insect wing. , 2016, , .		0
76	Effects of Advance Ratio on the Aerodynamic Characteristics of an Insect Wing in Forward Flight. , 2016, , .		3
77	Design of Three Parameter Isolator for the RWA Disturbance Considering Flexible Structural Effects. , 2016, , .		1
78	Hybrid isolation of micro vibrations induced by reaction wheels. Journal of Sound and Vibration, 2016, 363, 1-17.	3.9	44
79	Dynamic Stability of a Hawkmoth-scale Flapping-wing Micro Air Vehicle during Forward Flight. , 2016, , .		0
80	Design of frequency-tunable mesh washer isolators using shape memory alloy actuators. Journal of Intelligent Material Systems and Structures, 2016, 27, 1265-1280.	2.5	10
81	Performance Evaluation of RWA Vibration Isolator Using Notch Filter Control. Transactions of the Korean Society for Noise and Vibration Engineering, 2016, 26, 391-397.	0.4	0
82	Role of Trailing-Edge Vortices on the Hawkmothlike Flapping Wing. Journal of Aircraft, 2015, 52, 1256-1266.	2.4	30
83	Hovering and forward flight of the hawkmoth<i>Manduca sexta</i>: trim search and 6-DOF dynamic stability characterization. Bioinspiration and Biomimetics, 2015, 10, 056012.	2.9	31
84	An improved quasi-steady aerodynamic model for insect wings that considers movement of the center of pressure. Bioinspiration and Biomimetics, 2015, 10, 046014.	2.9	41
85	Safety-guaranteed Flight Test Environment for Micro Air Vehicles. , 2015, , .		0
86	Semiempirical Thrust Model of Dielectric Barrier Plasma Actuator for Flow Control. Journal of Aerospace Engineering, 2015, 28, .	1.4	17
87	The effect of the abdomen deformation on the longitudinal stability of flying insects. , 2015, , .		1
88	Experimental study on on-orbit and launch environment vibration isolation performance of a vibration isolator using bellows and viscous fluid. Aerospace Science and Technology, 2015, 45, 1-9.	4.8	44
89	Historical trend in heavy metal pollution in core sediments from the Masan Bay, Korea. Marine Pollution Bulletin, 2015, 95, 427-432.	5.0	24
90	Stroke Plane Control for Longitudinal Stabilization of Hovering Flapping Wing Air Vehicles. Journal of Guidance, Control, and Dynamics, 2015, 38, 800-806.	2.8	15

#	ARTICLE	IF	CITATIONS
91	A Parametric Study of Ridge-cut Explosive Bolts using Hydrocodes. International Journal of Aeronautical and Space Sciences, 2015, 16, 50-63.	2.0	31
92	Performance evaluation method of homogeneous stereo camera system for full-field structural deformation estimation. International Journal of Aeronautical and Space Sciences, 2015, 16, 380-393.	2.0	2
93	Experimental Study on the Forward Flight of the Hawkmoth Using the Dynamically Scaled-Up Robotic Model. , 2015, , .		0
94	Modified Unsteady Vortex Lattice Method for Aerodynamics of Flapping Wing Models. , 2015, , .		1
95	Real-time deformed shape estimation of a wind turbine blade using distributed fiber Bragg grating sensors. Wind Energy, 2014, 17, 1455-1467.	4.2	27
96	Experimental Study on the Unsteady Aerodynamics of a Robotic Hawkmoth Manduca sexta model. , 2014, , .		2
97	Frequency tunable vibration and shock isolator using shape memory alloy wire actuator. Journal of Intelligent Material Systems and Structures, 2014, 25, 908-919.	2.5	34
98	An indoor autonomous flight of multiple ornithopters following a circular path. , 2014, , .		1
99	Active load control of wind turbine blade section with trailing edge flap: Wind tunnel testing. Journal of Intelligent Material Systems and Structures, 2014, 25, 2246-2255.	2.5	7
100	Development of vibration isolation platform for low amplitude vibration. , 2014, , .		4
101	Effect of Dimensional Stability of Composites on Optical Performances of Space Telescopes. Journal of Aerospace Engineering, 2014, 27, 40-47.	1.4	6
102	Linear-to-rotary motion converter using asymmetric compliant mechanics and single-crystal PMN-PT stack actuator. Journal of Intelligent Material Systems and Structures, 2014, 25, 2221-2227.	2.5	7
103	Sensitivity analysis of damping performances for passive shunted piezoelectrics. Aerospace Science and Technology, 2014, 33, 16-25.	4.8	8
104	Development of bi-stable and millimeter-scale displacement actuator using snap-through effect for reciprocating control fins. Aerospace Science and Technology, 2014, 32, 131-141.	4.8	10
105	Development of multi-degree-of-freedom microvibration emulator for efficient jitter test of spacecraft. Journal of Intelligent Material Systems and Structures, 2014, 25, 1069-1081.	2.5	21
106	One-equation modeling and validation of dielectric barrier discharge plasma actuator thrust. Journal Physics D: Applied Physics, 2014, 47, 405202.	2.8	12
107	Control of Wing Stroke Plane Angle for Stabilizing of a Hovering Flapping-Wing Air Vehicle. , 2014, , .		1
108	A multibody approach for 6-DOF flight dynamics and stability analysis of the hawkmoth Manduca sexta. Bioinspiration and Biomimetics, 2014, 9, 016011.	2.9	31

#	ARTICLE	IF	CITATIONS
109	Separation characteristics study of ridge-cut explosive bolts. Aerospace Science and Technology, 2014, 39, 153-168.	4.8	50
110	Autonomous formation flight of multiple flapping-wing flying vehicles using motion capture system. Aerospace Science and Technology, 2014, 39, 596-604.	4.8	10
111	Dynamic calibration of magnetic suspension and balance system for sting-free measurement in wind tunnel tests. Journal of Mechanical Science and Technology, 2013, 27, 1963-1970.	1.5	12
112	Indoor Flight Testing and Controller Design of Bioinspired Ornithopter. Advances in Intelligent Systems and Computing, 2013, , 825-834.	0.6	2
113	Indoor Flight Testing and Controller Design of Bioinspired Ornithopter. Studies in Computational Intelligence, 2013, , 277-286.	0.9	0
114	An investigation of 6-DOF insect flight dynamics with a flexible multibody dynamics approach. , 2013, , .		2
115	Transverse strain effects on the thermal expansion measurement of composite structure using fiber Bragg grating sensors: Experimental validation. Journal of Intelligent Material Systems and Structures, 2013, 24, 796-802.	2.5	2
116	Flight controller design of a flapping-wing MAV in a magnetically levitated environment. , 2013, , .		1
117	Control of tailed flapping-wing flying robot. , 2013, , .		3
118	Teaching micro air vehicles how to fly as we teach babies how to walk. Journal of Intelligent Material Systems and Structures, 2013, 24, 936-944.	2.5	4
119	Frequency Tunable Isolator Based on Shape Memory Alloy for Effective Shock and Vibration Suppression. , 2013, , .		0
120	Mid Frequency Shock Response Determination by Using Energy Flow Method and Time Domain Correction. Shock and Vibration, 2013, 20, 847-861.	0.6	10
121	Active load control for wind turbine blades using trailing edge flap. Wind and Structures, an International Journal, 2013, 16, 263-278.	0.8	10
122	Control Effectiveness Analysis of the hawkmoth <i>Manduca sexta</i> : a Multibody Dynamics Approach. International Journal of Aeronautical and Space Sciences, 2013, 14, 152-161.	2.0	16
123	Enhanced shock and vibration isolator for the attenuation of low-frequency vibration and high-frequency pyroshock loads. Proceedings of SPIE, 2012, , .	0.8	1
124	Development of Multi-DOF Active Microvibration Emulator. , 2012, , .		5
125	Passive Longitudinal Stability in Ornithopter Flight. Journal of Guidance, Control, and Dynamics, 2012, 35, 669-674.	2.8	17
126	Integrated framework for jitter analysis combining disturbance, structure, vibration isolator and optical model. Proceedings of SPIE, 2012, , .	0.8	6



#	ARTICLE	IF	CITATIONS
127	Experimental study on the flight dynamics of a bioinspired ornithopter: free flight testing and wind tunnel testing. <i>Smart Materials and Structures</i> , 2012, 21, 094023.	3.5	20
128	Aeroelastic analysis of wind turbine blades based on modified strip theory. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 110, 62-69.	3.9	26
129	Periodic Tail Motion Linked to Wing Motion Affects the Longitudinal Stability of Ornithopter Flight. <i>Journal of Bionic Engineering</i> , 2012, 9, 18-28.	5.0	21
130	Development of Integrated Simulation Tool for Jitter Analysis. <i>International Journal of Aeronautical and Space Sciences</i> , 2012, 13, 64-73.	2.0	20
131	Feasibility Study to Actively Compensate Deformations of Composite Structure in a Space Environment. <i>International Journal of Aeronautical and Space Sciences</i> , 2012, 13, 221-228.	2.0	4
132	Camber-adjustable flapping wing air vehicles. , 2011, , .		1
133	A measurement method for piezoelectric material properties under longitudinal compressive stress—a compression test method for thin piezoelectric materials. <i>Measurement Science and Technology</i> , 2011, 22, 065701.	2.6	6
134	Improved Aerodynamic Model for Efficient Analysis of Flapping-Wing Flight. <i>AIAA Journal</i> , 2011, 49, 868-872.	2.6	28
135	Longitudinal Flight Dynamics of Bioinspired Ornithopter Considering Fluid-Structure Interaction. <i>Journal of Guidance, Control, and Dynamics</i> , 2011, 34, 667-677.	2.8	49
136	Microwave absorbing hybrid composites containing Ni-Fe coated carbon nanofibers prepared by electroless plating. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 573-578.	7.6	95
137	System Identification and Controller Design of a Micro Air Vehicle using Magnetic Suspension and Balance System. , 2011, , .		4
138	Teaching a Micro Air Vehicle How to Fly as We Teach Babies How to Walk. , 2011, , .		1
139	Tower Deflection Monitoring of a Wind Turbine Using an Array of Fiber Bragg Grating Sensors. , 2011, , .		2
140	Simultaneous Measurement of Deformation and Fracture of Composite Structures Using Fiber Bragg Grating Sensors. , 2011, , .		1
141	Limit-Cycle Oscillation Suppression of Ornithopter Longitudinal Flight Dynamics. , 2011, , .		8
142	Transverse Strain Effects on the Measurement of the Thermal Expansion of Composite Structure Using Surface-Mounted Fiber Bragg Grating Sensors. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1141-1147.	2.5	3
143	Development of a three-axis hybrid mesh isolator using the pseudoelasticity of a shape memory alloy. <i>Smart Materials and Structures</i> , 2011, 20, 075017.	3.5	21
144	Active Vibration Isolation Demonstration System Using the Piezoelectric Unimorph with Mechanically Pre-stressed Substrate. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1399-1409.	2.5	17

#	ARTICLE	IF	CITATIONS
145	Limit-Cycle Oscillation Suppression of Bioinspired Ornithopter: Wind Tunnel Testing. , 2011, , .		1
146	Shape estimation with distributed fiber Bragg grating sensors for rotating structures. Smart Materials and Structures, 2011, 20, 035011.	3.5	76
147	Two-layered electromagnetic wave-absorbing E-glass/epoxy plain weave composites containing carbon nanofibers and NiFe particles. Journal of Composite Materials, 2011, 45, 2773-2781.	2.4	10
148	Comparisons of Isolation Performances for the SMA Mesh Washer Isolator with the Variation of Pre-compressed Displacement. Transactions of the Korean Society for Noise and Vibration Engineering, 2011, 21, 162-168.	0.4	7
149	Active Vibration Isolation System Using the Piezoelectric Unimorph With Mechanically Pre-Stressed Substrate. , 2010, , .		1
150	Longitudinal Flight Dynamics of Bio-Inspired Ornithopter Considering Fluid-Structure Interaction. , 2010, , .		6
151	Ornithopter flight simulation based on flexible multi-body dynamics. Journal of Bionic Engineering, 2010, 7, 102-111.	5.0	60
152	Performance Evaluation of the Pre-Stressed Piezoelectric Unimorph Using Nonlinear Piezoelectric Properties. , 2010, , .		1
153	Compressed Mesh Washer Isolators Using the Pseudoelasticity of SMA for Pyroshock Attenuation. Journal of Intelligent Material Systems and Structures, 2010, 21, 407-421.	2.5	33
154	Effects of Transverse Strains on the Measurement of the Thermal Expansion of the Composite Using FBG Sensors. , 2010, , .		0
155	Measurement of the thermal expansion of space structures using fiber Bragg grating sensors and displacement measuring interferometers. Measurement Science and Technology, 2010, 21, 085704.	2.6	30
156	Prediction of actuation displacement and the force of a pre-stressed piezoelectric unimorph (PUMPS) considering nonlinear piezoelectric coefficient and elastic modulus. Smart Materials and Structures, 2010, 19, 094006.	3.5	13
157	Shock Response Prediction of a Low Altitude Earth Observation Satellite During Launch Vehicle Separation. International Journal of Aeronautical and Space Sciences, 2010, 11, 49-57.	2.0	22
158	Development of a Simulator of a Magnetic Suspension and Balance System. International Journal of Aeronautical and Space Sciences, 2010, 11, 175-183.	2.0	6
159	Development of a piezoelectric unimorph using a mechanically pre-stressed substrate. Smart Materials and Structures, 2009, 18, 104007.	3.5	16
160	Displacement field estimation for a two-dimensional structure using fiber Bragg grating sensors. Smart Materials and Structures, 2009, 18, 025006.	3.5	116
161	Nonlinear buckling analysis of hygrothermoelastic composite shell panels using finite element method. Composites Part B: Engineering, 2009, 40, 313-328.	12.0	41
162	Substructure synthesis method for a nonlinear structure with a sliding mode condition. Journal of Sound and Vibration, 2009, 321, 704-720.	3.9	10

#	ARTICLE	IF	CITATIONS
163	Fabrication and electromagnetic characteristics of microwave absorbers containing carbon nanofibers and NiFe particles. <i>Composites Science and Technology</i> , 2009, 69, 1271-1278.	7.8	120
164	Vibration characteristics and snapping behavior of hygro-thermo-elastic composite doubly curved shells. <i>Composite Structures</i> , 2009, 91, 306-317.	5.8	27
165	Bio-inspired flapping UAV design: a university perspective. <i>Proceedings of SPIE</i> , 2009, , .	0.8	25
166	Wind tunnel tests for a flapping wing model with a changeable camber using macro-fiber composite actuators. <i>Smart Materials and Structures</i> , 2009, 18, 024008.	3.5	46
167	Vibration and Post-buckling Behavior of Laminated Composite Doubly Curved Shell Structures. <i>Advanced Composite Materials</i> , 2009, 18, 21-42.	1.9	13
168	Design and construction of pre-stressed piezoelectric unimorph for trailing edge flap actuation. , 2009, , .		0
169	Real-Time Structure Shape Estimation Using Distributed Fiber Bragg Grating Sensors. , 2009, , .		0
170	A numerical study on the effect of sweep angle on flapping-wing flight using fluid-structure interaction analysis. , 2009, , .		0
171	Prediction of Actuation Displacement and Force of a Pre-Stressed Piezoelectric Unimorph, Pumps Considering Internal Stress Effects. , 2009, , .		0
172	Development of a Point Tracking System for Measuring Structural Deformations Using Commercial Video Cameras. <i>International Journal of Aeronautical and Space Sciences</i> , 2009, 10, 86-94.	2.0	5
173	Experimental evaluation of a flapping-wing aerodynamic model for MAV applications. <i>Proceedings of SPIE</i> , 2008, , .	0.8	10
174	Filtering techniques in the dynamic deformation estimation using multiple strains measured by FBGs. , 2008, , .		8
175	Ornithopter modeling for flight simulation. , 2008, , .		16
176	An aeroelastic analysis of a flexible flapping wing using modified strip theory. <i>Proceedings of SPIE</i> , 2008, , .	0.8	25
177	Experimental Investigation on the Aerodynamic Characteristics of a Bio-mimetic Flapping Wing with Macro-fiber Composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2008, 19, 423-431.	2.5	55
178	Fabrication and electromagnetic characteristics of microwave absorbers containing carbon nanofibers and magnetic metals. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
179	Numerical analyses of stabilization and control for flapping-wing flight. , 2008, , .		1
180	Damping characteristics of SMA films and their application for passive vibration isolation. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2008, 27, 225-241.	0.6	6

#	ARTICLE	IF	CITATIONS
181	Measurement of the Thermal Expansion for Space Structures Using Fiber Bragg Grating Sensors and Displacement Measuring Interferometers. , 2008, , .		0
182	A New Fabrication Method for a Curved Shape Piezoelectric Unimorph Actuator. , 2008, , .		0
183	Online Phase Tracking of Interferometric Optical Fiber Sensors for Vibration Control. Journal of Intelligent Material Systems and Structures, 2007, 18, 311-321.	2.5	2
184	Study of flapping actuator modules using IPMC. , 2007, , .		9
185	Wrinkling control of inflatable booms using shape memory alloy wires. Smart Materials and Structures, 2007, 16, 340-348.	3.5	29
186	Dynamic shape estimation by modal approach using fiber Bragg grating strain sensors. , 2007, , .		15
187	A Novel Method for Estimating Light-Scattering Properties of Soot Aerosols Using a Modified Single-Particle Soot Photometer. Aerosol Science and Technology, 2007, 41, 125-135.	3.1	258
188	Application of MWNT-added glass fabric/epoxy composites to electromagnetic wave shielding enclosures. Composite Structures, 2007, 81, 401-406.	5.8	103
189	Estimation of dynamic structural displacements using fiber Bragg grating strain sensors. Journal of Sound and Vibration, 2007, 305, 534-542.	3.9	253
190	Electroactive behavior of poly(acrylic acid) grafted poly(vinyl alcohol) samples, their synthesis using a Ce(IV)glucose redox system and their characterization. Smart Materials and Structures, 2006, 15, 417-423.	3.5	30
191	Nonlinear Finite Element Simulation of Shape Adaptive Structures with SMA Strip Actuator. Journal of Intelligent Material Systems and Structures, 2006, 17, 1007-1022.	2.5	30
192	Characteristics of smart composite wing with SMA actuators and optical fiber sensors. International Journal of Applied Electromagnetics and Mechanics, 2006, 23, 177-186.	0.6	18
193	Wrinkling control of inflatable booms using smart material patch. , 2006, , .		0
194	Fabrication and electromagnetic characteristics of electromagnetic wave absorbing sandwich structures. Composites Science and Technology, 2006, 66, 576-584.	7.8	277
195	Active flutter suppression of a lifting surface using piezoelectric actuation and modern control theory. Journal of Sound and Vibration, 2006, 291, 706-722.	3.9	47
196	Aeroelastic characteristics of cylindrical hybrid composite panels with viscoelastic damping treatments. Journal of Sound and Vibration, 2006, 296, 99-116.	3.9	55
197	Study of a reduced and internally biased oxide wafer PZT actuator and its integration with shape memory alloy. Smart Materials and Structures, 2006, 15, N89-N93.	3.5	3
198	A patch-type smart self-sensing actuator. Smart Materials and Structures, 2006, 15, 667-677.	3.5	8

#	ARTICLE	IF	CITATIONS
199	Smart flapping wing using macrofiber composite actuators. , 2006, , .		24
200	Experimental Studies on Active Shape Control of Composite Structures using SMA Actuators. Journal of Intelligent Material Systems and Structures, 2006, 17, 767-777.	2.5	33
201	Establishment of Gun Blast Wave Model and Structural Analysis for Blast Load. Journal of Aircraft, 2006, 43, 1159-1168.	2.4	7
202	Configuration control of aerospace structures with smart materials. Journal of Advanced Science, 2006, 18, 1-5.	0.1	7
203	Aeroelastic Analysis of a Wing with Freeplay in the Subsonic/Transonic Regions. JSME International Journal Series B, 2005, 48, 208-211.	0.3	2
204	Numerical Investigation on the Aeroelastic Instability of a Complete Aircraft Model. JSME International Journal Series B, 2005, 48, 212-217.	0.3	7
205	Dynamic Characteristics of ER Fluid-filled Composite Plate using Multielectrode Configuration. Journal of Intelligent Material Systems and Structures, 2005, 16, 411-419.	2.5	16
206	Optical phase estimation for a patch-type extrinsic Fabry-Perot interferometer sensor system and its application to flutter suppression. Smart Materials and Structures, 2005, 14, 696-706.	3.5	3
207	Shape and vibration control of smart composite structures. Advanced Composite Materials, 2005, 14, 121-130.	1.9	4
208	Dynamic Model Establishment of a Deployable Missile Control Fin with Nonlinear Hinge. Journal of Spacecraft and Rockets, 2005, 42, 66-77.	1.9	26
209	Vibration Measurement and Flutter Suppression Using Patch-type EFPI Sensor System. International Journal of Aeronautical and Space Sciences, 2005, 6, 17-26.	2.0	1
210	Smart structure for active vibration control of a composite plate. Journal of the Japan Society for Composite Materials, 2005, 31, 88-92.		
211	Vibration control of structures with interferometric sensor non-linearity. Smart Materials and Structures, 2004, 13, 92-99.	3.5	12
212	TRANSIENT ANALYSIS OF THERMOELASTIC CONTACT BEHAVIORS IN COMPOSITE MULTIDISK BRAKES. Journal of Thermal Stresses, 2004, 27, 1149-1167.	2.0	13
213	Application of Fiber Optic Sensor and Piezoelectric Actuator to Flutter Suppression. Journal of Aircraft, 2004, 41, 409-411.	2.4	15
214	Thermal post-buckling analysis of shape memory alloy hybrid composite shell panels. Smart Materials and Structures, 2004, 13, 1337-1344.	3.5	61
215	Optimal vibration control of a plate using optical fiber sensor and PZT actuator. Smart Materials and Structures, 2003, 12, 507-513.	3.5	9
216	Multi-Modal Vibration Control Using Adaptive Positive Position Feedback. Journal of Intelligent Material Systems and Structures, 2002, 13, 13-22.	2.5	69

#	ARTICLE	IF	CITATIONS
217	Thermopiezoelastic Snapping of Piezolaminated Plates Using Layerwise Nonlinear Finite Elements. AIAA Journal, 2001, 39, 1188-1197.	2.6	62
218	Vibration and Damping Analysis of Laminated Plates with Fully and Partially Covered Damping Layers. Journal of Reinforced Plastics and Composites, 2000, 19, 1176-1200.	3.1	14
219	POSTBUCKLING AND VIBRATION CHARACTERISTICS OF PIEZOLAMINATED COMPOSITE PLATE SUBJECT TO THERMO-PIEZOELECTRIC LOADS. Journal of Sound and Vibration, 2000, 233, 19-40.	3.9	129
220	NEURO-ADAPTIVE VIBRATION CONTROL OF COMPOSITE BEAMS SUBJECT TO SUDDEN DELAMINATION. Journal of Sound and Vibration, 2000, 238, 215-231.	3.9	34
221	Adaptive multi-modal vibration control of wing-like composite structure using Adaptive Positive Position Feedback. , 2000, , .		2
222	MULTI-MODAL VIBRATION CONTROL OF SMART COMPOSITE PLATES. Zairyo/Journal of the Society of Materials Science, Japan, 1999, 48, 122-127.	0.2	3
223	Vibration and actuation characteristics of composite structures with a bonded piezo-ceramic actuator. Smart Materials and Structures, 1999, 8, 136-143.	3.5	19
224	Optimal placement of piezoelectric sensors and actuators for vibration control of a composite plate using genetic algorithms. Smart Materials and Structures, 1999, 8, 257-267.	3.5	161
225	A New Wall Motion Actuator Using Magnetic Fluid and Elastic Membrane for Laminar Flow Control. Journal of Intelligent Material Systems and Structures, 1999, 10, 149-154.	2.5	2
226	Analysis of composite plates with piezoelectric actuators for vibration control using layerwise displacement theory. Composites Part B: Engineering, 1998, 29, 621-632.	12.0	82
227	Active Damping Enhancement of Composite Plates with Electrode Designed Piezoelectric Materials. Journal of Intelligent Material Systems and Structures, 1997, 8, 249-259.	2.5	27
228	An experimental study of active vibration control of composite structures with a piezo-ceramic actuator and a piezo-film sensor. Smart Materials and Structures, 1997, 6, 549-558.	3.5	101
229	Application of Ground Flutter Emulation Test Technique for the Passive Flutter Suppression Effect Validation. International Journal of Aeronautical and Space Sciences, 0, , 1.	2.0	3
230	Self-Learning MAV Under Safety-Guaranteed Flight Test Environment. AIAA Journal, 0, , 1-13.	2.6	1
231	Multiple-Input/Multiple-Output Random Vibration Control for Simulating a Horizontal Direction Launch Environment. Journal of Spacecraft and Rockets, 0, , 1-18.	1.9	0