# Jae-Hung Han

## List of Publications by Year in descending order

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|---|---|---|---|
| 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 | Fabrication and electromagnetic characteristics of electromagnetic wave absorbing sandwich structures. Composites Science and Technology, 2006, 66, 576-584. | 7.8 | 277 |
| 2 | 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 |
| 3 | Estimation of dynamic structural displacements using fiber Bragg grating strain sensors. Journal of Sound and Vibration, 2007, 305, 534-542. | 3.9 | 253 |
| 4 | 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 |
| 5 | 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 |
| 6 | Fabrication and electromagnetic characteristics of microwave absorbers containing carbon nanofibers and NiFe particles. Composites Science and Technology, 2009, 69, 1271-1278. | 7.8 | 120 |
| 7 | Displacement field estimation for a two-dimensional structure using fiber Bragg grating sensors. Smart Materials and Structures, 2009, 18, 025006. | 3.5 | 116 |
| 8 | Application of MWNT-added glass fabric/epoxy composites to electromagnetic wave shielding enclosures. Composite Structures, 2007, 81, 401-406. | 5.8 | 103 |
| 9 | 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 |
| 10 | Microwave absorbing hybrid composites containing Niâ€“Fe coated carbon nanofibers prepared by electroless plating. Composites Part A: Applied Science and Manufacturing, 2011, 42, 573-578. | 7.6 | 95 |
| 11 | 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 |
| 12 | Shape estimation with distributed fiber Bragg grating sensors for rotating structures. Smart Materials and Structures, 2011, 20, 035011. | 3.5 | 76 |
| 13 | Multi-Modal Vibration Control Using Adaptive Positive Position Feedback. Journal of Intelligent Material Systems and Structures, 2002, 13, 13-22. | 2.5 | 69 |
| 14 | Thermopiezoelastic Snapping of Piezolaminated Plates Using Layerwise Nonlinear Finite Elements. AIAA Journal, 2001, 39, 1188-1197. | 2.6 | 62 |
| 15 | Thermal post-buckling analysis of shape memory alloy hybrid composite shell panels. Smart Materials and Structures, 2004, 13, 1337-1344. | 3.5 | 61 |
| 16 | Ornithopter flight simulation based on flexible multi-body dynamics. Journal of Bionic Engineering, 2010, 7, 102-111. | 5.0 | 60 |
| 17 | Aeroelastic characteristics of cylindrical hybrid composite panels with viscoelastic damping treatments. Journal of Sound and Vibration, 2006, 296, 99-116. | 3.9 | 55 |
| 18 | Experimental Investigation on the Aerodynamic Characteristics of a Bio-mimetic Flapping Wing with Macro-fiber Composites. Journal of Intelligent Material Systems and Structures, 2008, 19, 423-431. | 2.5 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Separation characteristics study of ridge-cut explosive bolts. Aerospace Science and Technology, 2014, 39, 153-168. | 4.8 | 50 |
| 20 | Longitudinal Flight Dynamics of Bioinspired Ornithopter Considering Fluid-Structure Interaction. Journal of Guidance, Control, and Dynamics, 2011, 34, 667-677. | 2.8 | 49 |
| 21 | 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 |
| 22 | Wind tunnel tests for a flapping wing model with a changeable camber using macro-fiber composite actuators. Smart Materials and Structures, 2009, 18, 024008. | 3.5 | 46 |
| 23 | Extended Unsteady Vortex-Lattice Method for Insect Flapping Wings. Journal of Aircraft, 2016, 53, 1709-1718. | 2.4 | 45 |
| 24 | 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 |
| 25 | Hybrid isolation of micro vibrations induced by reaction wheels. Journal of Sound and Vibration, 2016, 363, 1-17. | 3.9 | 44 |
| 26 | 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 |
| 27 | 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 |
| 28 | Nonlinear buckling analysis of hygrothermoelastic composite shell panels using finite element method. Composites Part B: Engineering, 2009, 40, 313-328. | 12.0 | 41 |
| 29 | 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 |
| 30 | NEURO-ADAPTIVE VIBRATION CONTROL OF COMPOSITE BEAMS SUBJECT TO SUDDEN DELAMINATION. Journal of Sound and Vibration, 2000, 238, 215-231. | 3.9 | 34 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | A multibody approach for 6-DOF flight dynamics and stability analysis of the hawkmothManduca sexta. Bioinspiration and Biomimetics, 2014, 9, 016011. | 2.9 | 31 |
| 35 | Hovering and forward flight of the hawkmothManduca sexta: trim search and 6-DOF dynamic stability characterization. Bioinspiration and Biomimetics, 2015, 10, 056012. | 2.9 | 31 |
| 36 | Study on pyroshock propagation through plates with joints and washers. Aerospace Science and Technology, 2018, 79, 441-458. | 4.8 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A Parametric Study of Ridge-cut Explosive Bolts using Hydrocodes. International Journal of Aeronautical and Space Sciences, 2015, 16, 50-63. | 2.0 | 31 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Role of Trailing-Edge Vortices on the Hawkmothlike Flapping Wing. Journal of Aircraft, 2015, 52, 1256-1266. | 2.4 | 30 |
| 42 | Wrinkling control of inflatable booms using shape memory alloy wires. Smart Materials and Structures, 2007, 16, 340-348. | 3.5 | 29 |
| 43 | Improved Aerodynamic Model for Efficient Analysis of Flapping-Wing Flight. AIAA Journal, 2011, 49, 868-872. | 2.6 | 28 |
| 44 | 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 |
| 45 | Vibration characteristics and snapping behavior of hygro-thermo-elastic composite doubly curved shells. Composite Structures, 2009, 91, 306-317. | 5.8 | 27 |
| 46 | Realâ€time deformed shape estimation of a wind turbine blade using distributed fiber Bragg grating sensors. Wind Energy, 2014, 17, 1455-1467. | 4.2 | 27 |
| 47 | Dynamic Model Establishment of a Deployable Missile Control Fin with Nonlinear Hinge. Journal of Spacecraft and Rockets, 2005, 42, 66-77. | 1.9 | 26 |
| 48 | Aeroelastic analysis of wind turbine blades based on modified strip theory. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 110, 62-69. | 3.9 | 26 |
| 49 | An aeroelastic analysis of a flexible flapping wing using modified strip theory. Proceedings of SPIE, 2008, , . | 0.8 | 25 |
| 50 | Bio-inspired flapping UAV design: a university perspective. Proceedings of SPIE, 2009, , . | 0.8 | 25 |
| 51 | An aerodynamic model for insect flapping wings in forward flight. Bioinspiration and Biomimetics, 2017, 12, 036004. | 2.9 | 25 |
| 52 | Smart flapping wing using macrofiber composite actuators. , 2006, , . | | 24 |
| 53 | Historical trend in heavy metal pollution in core sediments from the Masan Bay, Korea. Marine Pollution Bulletin, 2015, 95, 427-432. | 5.0 | 24 |
| 54 | Deployable truss structure with flat-form storability using scissor-like elements. Mechanism and Machine Theory, 2021, 159, 104252. | 4.5 | 24 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Roles of wing flexibility and kinematics in flapping wing aerodynamics. Journal of Fluids and Structures, 2021, 104, 103317. | 3.4 | 23 |
| 56 | 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 |
| 57 | Development of a three-axis hybrid mesh isolator using the pseudoelasticity of a shape memory alloy. Smart Materials and Structures, 2011, 20, 075017. | 3.5 | 21 |
| 58 | Periodic Tail Motion Linked to Wing Motion Affects the Longitudinal Stability of Ornithopter Flight. Journal of Bionic Engineering, 2012, 9, 18-28. | 5.0 | 21 |
| 59 | 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 |
| 60 | A mathematical model for the separation behavior of a split type low-shock separation bolt. Acta Astronautica, 2019, 164, 393-406. | 3.2 | 21 |
| 61 | Experimental study on the flight dynamics of a bioinspired ornithopter: free flight testing and wind tunnel testing. Smart Materials and Structures, 2012, 21, 094023. | 3.5 | 20 |
| 62 | Development of Integrated Simulation Tool for Jitter Analysis. International Journal of Aeronautical and Space Sciences, 2012, 13, 64-73. | 2.0 | 20 |
| 63 | Vibration and actuation characteristics of composite structures with a bonded piezo-ceramic actuator. Smart Materials and Structures, 1999, 8, 136-143. | 3.5 | 19 |
| 64 | 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 |
| 65 | Interactions of the wakes of two flapping wings in hover. Physics of Fluids, 2019, 31, 021901. | 4.0 | 19 |
| 66 | 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 |
| 67 | Pyroshock Prediction of Ridge-Cut Explosive Bolts Using Hydrocodes. Shock and Vibration, 2016, 2016, 1-14. | 0.6 | 18 |
| 68 | New Approach to Folding a Thin-Walled Yoshimura Patterned Cylinder. Journal of Spacecraft and Rockets, 2021, 58, 516-530. | 1.9 | 18 |
| 69 | Active Vibration Isolation Demonstration System Using the Piezoelectric Unimorph with Mechanically Pre-stressed Substrate. Journal of Intelligent Material Systems and Structures, 2011, 22, 1399-1409. | 2.5 | 17 |
| 70 | Passive Longitudinal Stability in Ornithopter Flight. Journal of Guidance, Control, and Dynamics, 2012, 35, 669-674. | 2.8 | 17 |
| 71 | Semiempirical Thrust Model of Dielectric Barrier Plasma Actuator for Flow Control. Journal of Aerospace Engineering, 2015, 28, . | 1.4 | 17 |
| 72 | Compact piezoelectric tripod manipulator based on a reverse bridge-type amplification mechanism. Smart Materials and Structures, 2016, 25, 095028. | 3.5 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | 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 |
| 74 | Ornithopter modeling for flight simulation. , 2008, , . | | 16 |
| 75 | Development of a piezoelectric unimorph using a mechanically pre-stressed substrate. Smart Materials and Structures, 2009, 18, 104007. | 3.5 | 16 |
| 76 | Effect of body aerodynamics on the dynamic flight stability of the hawkmothManduca sexta. Bioinspiration and Biomimetics, 2017, 12, 016007. | 2.9 | 16 |
| 77 | Mathematical Model for the Separation Behavior of Low-Shock Separation Bolts. Journal of Spacecraft and Rockets, 2018, 55, 1208-1221. | 1.9 | 16 |
| 78 | Control Effectiveness Analysis of the hawkmoth Manduca sexta: a Multibody Dynamics Approach. International Journal of Aeronautical and Space Sciences, 2013, 14, 152-161. | 2.0 | 16 |
| 79 | Application of Fiber Optic Sensor and Piezoelectric Actuator to Flutter Suppression. Journal of Aircraft, 2004, 41, 409-411. | 2.4 | 15 |
| 80 | Dynamic shape estimation by modal approach using fiber Bragg grating strain sensors. , 2007, , . | | 15 |
| 81 | 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 |
| 82 | 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 |
| 83 | Development of shock-absorbing insert for honeycomb sandwich panel. Aerospace Science and Technology, 2020, 104, 105930. | 4.8 | 14 |
| 84 | 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 |
| 85 | TRANSIENT ANALYSIS OF THERMOELASTIC CONTACT BEHAVIORS IN COMPOSITE MULTIDISK BRAKES. Journal of Thermal Stresses, 2004, 27, 1149-1167. | 2.0 | 13 |
| 86 | Vibration and Post-buckling Behavior of Laminated Composite Doubly Curved Shell Structures. Advanced Composite Materials, 2009, 18, 21-42. | 1.9 | 13 |
| 87 | 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 |
| 88 | Selfâ€Reconfiguring and Stiffening Origami Tube. Advanced Engineering Materials, 2022, 24, . | 3.5 | 13 |
| 89 | Vibration control of structures with interferometric sensor non-linearity. Smart Materials and Structures, 2004, 13, 92-99. | 3.5 | 12 |
| 90 | 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 |

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|---|---|---|---|
| 91 | One-equation modeling and validation of dielectric barrier discharge plasma actuator thrust. Journal Physics D: Applied Physics, 2014, 47, 405202. | 2.8 | 12 |
| 92 | A Neural-network-based Approach to Study the Energy-optimal Hovering Wing Kinematics of a Bionic Hawkmoth Model. Journal of Bionic Engineering, 2019, 16, 904-915. | 5.0 | 11 |
| 93 | Bidirectional actuation of buckled bistable beam using twisted string actuator. Journal of Intelligent Material Systems and Structures, 2019, 30, 506-516. | 2.5 | 11 |
| 94 | 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 |
| 95 | Experimental evaluation of a flapping-wing aerodynamic model for MAV applications. Proceedings of SPIE, 2008, , . | 0.8 | 10 |
| 96 | Substructure synthesis method for a nonlinear structure with a sliding mode condition. Journal of Sound and Vibration, 2009, 321, 704-720. | 3.9 | 10 |
| 97 | 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 |
| 98 | Mid Frequency Shock Response Determination by Using Energy Flow Method and Time Domain Correction. Shock and Vibration, 2013, 20, 847-861. | 0.6 | 10 |
| 99 | 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 |
| 100 | Autonomous formation flight of multiple flapping-wing flying vehicles using motion capture system. Aerospace Science and Technology, 2014, 39, 596-604. | 4.8 | 10 |
| 101 | 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 |
| 102 | Influence of aspect ratio on wingâ€“wake interaction for flapping wing in hover. Experiments in Fluids, 2019, 60, 1. | 2.4 | 10 |
| 103 | Aerodynamic characteristics of flapping wings under steady lateral inflow. Journal of Fluid Mechanics, 2019, 870, 735-759. | 3.4 | 10 |
| 104 | A contralateral wing stabilizes a hovering hawkmoth under a lateral gust. Scientific Reports, 2019, 9, 17397. | 3.3 | 10 |
| 105 | Active load control for wind turbine blades using trailing edge flap. Wind and Structures, an International Journal, 2013, 16, 263-278. | 0.8 | 10 |
| 106 | Optimal vibration control of a plate using optical fiber sensor and PZT actuator. Smart Materials and Structures, 2003, 12, 507-513. | 3.5 | 9 |
| 107 | Study of flapping actuator modules using IPMC. , 2007, , . | | 9 |
| 108 | Aerodynamic effects of deviating motion of flapping wings in hovering flight. Bioinspiration and Biomimetics, 2019, 14, 026006. | 2.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Development of ground vibration test based flutter emulation technique. Aeronautical Journal, 2020, 124, 1436-1461. | 1.6 | 9 |
| 110 | A patch-type smart self-sensing actuator. Smart Materials and Structures, 2006, 15, 667-677. | 3.5 | 8 |
| 111 | Filtering techniques in the dynamic deformation estimation using multiple strains measured by FBGs. , 2008, , . | | 8 |
| 112 | Limit-Cycle Oscillation Suppression of Ornithopter Longitudinal Flight Dynamics. , 2011, , . | | 8 |
| 113 | Sensitivity analysis of damping performances for passive shunted piezoelectrics. Aerospace Science and Technology, 2014, 33, 16-25. | 4.8 | 8 |
| 114 | A two-dimensional modular deployable truss structure with bistability. Journal of Intelligent Material Systems and Structures, 2019, 30, 335-350. | 2.5 | 8 |
| 115 | Numerical Investigation on the Aeroelastic Instability of a Complete Aircraft Model. JSME International Journal Series B, 2005, 48, 212-217. | 0.3 | 7 |
| 116 | Establishment of Gun Blast Wave Model and Structural Analysis for Blast Load. Journal of Aircraft, 2006, 43, 1159-1168. | 2.4 | 7 |
| 117 | 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 |
| 118 | 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 |
| 119 | Configuration control of aerospace structures with smart materials. Journal of Advanced Science, 2006, 18, 1-5. | 0.1 | 7 |
| 120 | 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 |
| 121 | Dynamic Stability and Flight Control of Biomimetic Flapping-Wing Micro Air Vehicle. Aerospace, 2021, 8, 362. | 2.2 | 7 |
| 122 | Damping characteristics of SMA films and their application for passive vibration isolation. International Journal of Applied Electromagnetics and Mechanics, 2008, 27, 225-241. | 0.6 | 6 |
| 123 | Longitudinal Flight Dynamics of Bio-Inspired Ornithopter Considering Fluid-Structure Interaction. , 2010, , . | | 6 |
| 124 | A measurement method for piezoelectric material properties under longitudinal compressive stressâ€“a compression test method for thin piezoelectric materials. Measurement Science and Technology, 2011, 22, 065701. | 2.6 | 6 |
| 125 | Integrated framework for jitter analysis combining disturbance, structure, vibration isolator and optical model. Proceedings of SPIE, 2012, , . | 0.8 | 6 |
| 126 | Effect of Dimensional Stability of Composites on Optical Performances of Space Telescopes. Journal of Aerospace Engineering, 2014, 27, 40-47. | 1.4 | 6 |

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|---|---|---|---|
| 127 | Development of Pyroshock Simulator for Shock Propagation Test. Shock and Vibration, 2018, 2018, 1-13. | 0.6 | 6 |
| 128 | Aerodynamic performance of flexible flapping wings deformed by slack angle. Bioinspiration and Biomimetics, 2020, 15, 066005. | 2.9 | 6 |
| 129 | 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 |
| 130 | Development of a miniature point source pyroshock simulator. Journal of Sound and Vibration, 2020, 481, 115438. | 3.9 | 6 |
| 131 | Development of Multi-DOF Active Microvibration Emulator. , 2012, , . | | 5 |
| 132 | Safety-Guaranteed Flight Test Environment for Micro Air Vehicles. AIAA Journal, 2016, 54, 1018-1029. | 2.6 | 5 |
| 133 | A Development and Assessment of Variable-Incidence Angle Vortex Generator at Low Reynolds Number of ~â€‰5Ã—104. International Journal of Aeronautical and Space Sciences, 2018, 19, 836-842. | 2.0 | 5 |
| 134 | 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 |
| 135 | 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 |
| 136 | Development of a Point Tracking System for Measuring Structural Deformations Using Commercial Video Cameras. International Journal of Aeronautical and Space Sciences, 2009, 10, 86-94. | 2.0 | 5 |
| 137 | Automated Aerial Docking System Using Onboard Vision-Based Deep Learning. Journal of Aerospace Information Systems, 2022, 19, 421-436. | 1.4 | 5 |
| 138 | Shape and vibration control of smart composite structures. Advanced Composite Materials, 2005, 14, 121-130. | 1.9 | 4 |
| 139 | System Identification and Controller Design of a Micro Air Vehicle using Magnetic Suspension and Balance System. , 2011, , . | | 4 |
| 140 | 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 |
| 141 | Development of vibration isolation platform for low amplitude vibration. , 2014, , . | | 4 |
| 142 | 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 |
| 143 | Effectiveness Analysis of Spin Motion in Reducing Dispersion of Sounding Rocket Flight due to Thrust Misalignment. International Journal of Aeronautical and Space Sciences, 2021, 22, 1194-1208. | 2.0 | 4 |
| 144 | Feasibility Study to Actively Compensate Deformations of Composite Structure in a Space Environment. International Journal of Aeronautical and Space Sciences, 2012, 13, 221-228. | 2.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | MULTI-MODAL VIBRATION CONTROL OF SMART COMPOSITE PLATES. Zairyo/Journal of the Society of Materials Science, Japan, 1999, 48, 122-127. | 0.2 | 3 |
| 146 | Optical phase estimation for a patch-type extrinsic Fabryâ€“Perot interferometer sensor system and its application to flutter suppression. Smart Materials and Structures, 2005, 14, 696-706. | 3.5 | 3 |
| 147 | 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 |
| 148 | Fabrication and electromagnetic characteristics of microwave absorbers containing carbon nanofibers and magnetic metals. Proceedings of SPIE, 2008, , . | 0.8 | 3 |
| 149 | Transverse Strain Effects on the Measurement of the Thermal Expansion of Composite Structure Using Surface-Mounted Fiber Bragg Grating Sensors. Journal of Intelligent Material Systems and Structures, 2011, 22, 1141-1147. | 2.5 | 3 |
| 150 | Control of tailed flapping-wing flying robot. , 2013, , . | | 3 |
| 151 | Effects of Advance Ratio on the Aerodynamic Characteristics of an Insect Wing in Forward Flight. , 2016, , . | | 3 |
| 152 | Panel Flutter Emulation Using a Few Concentrated Forces. International Journal of Aeronautical and Space Sciences, 2018, 19, 80-88. | 2.0 | 3 |
| 153 | Separation Behavior of Pyrotechnically Actuated Device Considering Small-Volume Effect of Combustion Chamber. Journal of Spacecraft and Rockets, 2020, 57, 823-834. | 1.9 | 3 |
| 154 | Ground Effect on Flutter and Limit Cycle Oscillation of Airfoil with Flap. Journal of Aircraft, 2021, 58, 688-692. | 2.4 | 3 |
| 155 | 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 |
| 156 | Aeroelastic Behavior of Two Airfoils in Proximity. AIAA Journal, 2022, 60, 2522-2532. | 2.6 | 3 |
| 157 | Aerodynamic characteristics of flexible flapping wings depending on aspect ratio and slack angle. Physics of Fluids, 2022, 34, . | 4.0 | 3 |
| 158 | Adaptive multi-modal vibration control of wing-like composite structure using Adaptive Positive Position Feedback. , 2000, , . | | 2 |
| 159 | Aeroelastic Analysis of a Wing with Freeplay in the Subsonic/Transonic Regions. JSME International Journal Series B, 2005, 48, 208-211. | 0.3 | 2 |
| 160 | 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 |
| 161 | Tower Deflection Monitoring of a Wind Turbine Using an Array of Fiber Bragg Grating Sensors. , 2011, , . | | 2 |
| 162 | Indoor Flight Testing and Controller Design of Bioinspired Ornithopter. Advances in Intelligent Systems and Computing, 2013, , 825-834. | 0.6 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | An investigation of 6-DOF insect flight dynamics with a flexible multibody dynamics approach. , 2013, , . | | 2 |
| 164 | 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 |
| 165 | Experimental Study on the Unsteady Aerodynamics of a Robotic Hawkmoth Manduca sexta model. , 2014, , . | | 2 |
| 166 | Performance Optimization of a Split-Type Low-Shock Separation Bolt. Journal of Spacecraft and Rockets, 2021, 58, 232-239. | 1.9 | 2 |
| 167 | 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 |
| 168 | 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 |
| 169 | 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 |
| 170 | Shock Reduction Technique on Thin Plate Structure by Wave Refraction Using an Elastic Patch. Shock and Vibration, 2021, 2021, 1-14. | 0.6 | 2 |
| 171 | Numerical analyses of stabilization and control for flapping-wing flight. , 2008, , . | | 1 |
| 172 | Active Vibration Isolation System Using the Piezoelectric Unimorph With Mechanically Pre-Stressed Substrate. , 2010, , . | | 1 |
| 173 | Performance Evaluation of the Pre-Stressed Piezoelectric Unimorph Using Nonlinear Piezoelectric Properties. , 2010, , . | | 1 |
| 174 | Camber-adjustable flapping wing air vehicles. , 2011, , . | | 1 |
| 175 | Teaching a Micro Air Vehicle How to Fly as We Teach Babies How to Walk. , 2011, , . | | 1 |
| 176 | Simultaneous Measurement of Deformation and Fracture of Composite Structures Using Fiber Bragg Grating Sensors. , 2011, , . | | 1 |
| 177 | Limit-Cycle Oscillation Suppression of Bioinspired Ornithopter: Wind Tunnel Testing. , 2011, , . | | 1 |
| 178 | Enhanced shock and vibration isolator for the attenuation of low-frequency vibration and high-frequency pyroshock loads. Proceedings of SPIE, 2012, , . | 0.8 | 1 |
| 179 | Flight controller design of a flapping-wing MAV in a magnetically levitated environment. , 2013, , . | | 1 |
| 180 | An indoor autonomous flight of multiple ornithopters following a circular path. , 2014, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Control of Wing Stroke Plane Angle for Stabilizing of a Hovering Flapping-Wing Air Vehicle. , 2014, , . | | 1 |
| 182 | The effect of the abdomen deformation on the longitudinal stability of flying insects. , 2015, , . | | 1 |
| 183 | Nondestructive evaluation of pyroshock propagation using hydrocodes. , 2016, , . | | 1 |
| 184 | Design of Three Parameter Isolator for the RWA Disturbance Considering Flexible Structural Effects. , 2016, , . | | 1 |
| 185 | Development of flow separation control system to reduce the vibration of wind turbine blades. , 2017, , . | | 1 |
| 186 | Wind-Turbine Vibration Reduction Using Flow Control Devices. , 2017, , . | | 1 |
| 187 | Self-learning MAV Under Safety-guaranteed Flight Test Environment. , 2020, , . | | 1 |
| 188 | Effective elastic, thermoelastic, and piezoelectric properties of braided composites using equivalent laminate modeling. Advanced Composite Materials, 2021, 30, 338-364. | 1.9 | 1 |
| 189 | Effects of sweep-motion profile on rigid and flexible flapping-wing aerodynamics. , 2021, , . | | 1 |
| 190 | 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 |
| 191 | Modified Unsteady Vortex Lattice Method for Aerodynamics of Flapping Wing Models. , 2015, , . | | 1 |
| 192 | Buckled bistable beam actuation with twisted strings. , 2018, , . | | 1 |
| 193 | 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 |
| 194 | Self-Learning MAV Under Safety-Guaranteed Flight Test Environment. AIAA Journal, 0, , 1-13. | 2.6 | 1 |
| 195 | Publisher's Note: â€œAerodynamic characteristics of flexible flapping wings depending on aspect ratio and slack angleâ€•[Phys. Fluids 34, 051911 (2022)]. Physics of Fluids, 2022, 34, . | 4.0 | 1 |
| 196 | Wrinkling control of inflatable booms using smart material patch. , 2006, , . | | 0 |
| 197 | Measurement of the Thermal Expansion for Space Structures Using Fiber Bragg Grating Sensors and Displacement Measuring Interferometers. , 2008, , . | | 0 |
| 198 | Design and construction of pre-stressed piezoelectric unimorph for trailing edge flap actuation. , 2009, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Real-Time Structure Shape Estimation Using Distributed Fiber Bragg Grating Sensors. , 2009, , . | | 0 |
| 200 | A numerical study on the effect of sweep angle on flapping-wing flight using fluid-structure interaction analysis. , 2009, , . | | 0 |
| 201 | Effects of Transverse Strains on the Measurement of the Thermal Expansion of the Composite Using FBG Sensors. , 2010, , . | | 0 |
| 202 | Indoor Flight Testing and Controller Design of Bioinspired Ornithopter. Studies in Computational Intelligence, 2013, , 277-286. | 0.9 | 0 |
| 203 | Frequency Tunable Isolator Based on Shape Memory Alloy for Effective Shock and Vibration Suppression. , 2013, , . | | 0 |
| 204 | Safety-guaranteed Flight Test Environment for Micro Air Vehicles. , 2015, , . | | 0 |
| 205 | Effects of fluid-structure interaction on the aerodynamics of an insect wing. , 2016, , . | | 0 |
| 206 | Dynamic Stability of a Hawkmoth-scale Flapping-wing Micro Air Vehicle during Forward Flight. , 2016, , . | | 0 |
| 207 | The Trim Condition of a Hovering Insect-like Flapping-wing Micro Air Vehicle in Asymmetric Condition. , 2017, , . | | 0 |
| 208 | Towing Tank Experiments for Flapping-Wing Aerodynamics. , 2017, , . | | 0 |
| 209 | Dynamic Stability of Flapping-Wing Micro Air Vehicles With Unsteady Aerodynamic Model. , 2017, , . | | 0 |
| 210 | The Effects of Wakes on Aerodynamic Characteristics of Flapping Wings in Clap-and-Fling Motion at Re of ~104. , 2018, , . | | 0 |
| 211 | Selected papers from the 29th International Conference on Adaptive Structures and Technologies (ICAST 2018) (Seoul, Korea, 30 Septemberâ€“4 October 2018). Journal of Intelligent Material Systems and Structures, 2019, 30, 2519-2520. | 2.5 | 0 |
| 212 | Performance optimization of a split type low-shock separation bolt. , 2019, , . | | 0 |
| 213 | Design and Prototyping of Rotational Bi-Stable Mechanism Using Permanent Magnets. Journal of Mechanisms and Robotics, 2021, 13, . | 2.2 | 0 |
| 214 | ã‚¹ãƒžãƒ¼ãƒˆè‡ªå·±æ„ˆ—™ã®å½¢çŠ¶ãƒ»æŒ¯å‹•å^¶å¾¡. Journal of the Japan Society for Composite Materials, 2005, 31, 88-92. | 0.3 | 2 |
| 215 | A New Fabrication Method for a Curved Shape Piezoelectric Unimorph Actuator. , 2008, , . | | 0 |
| 216 | Prediction of Actuation Displacement and Force of a Pre-Stressed Piezoelectric Unimorph, Pumps Considering Internal Stress Effects. , 2009, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Experimental Study on the Forward Flight of the Hawkmoth Using the Dynamically Scaled-Up Robotic Model. , 2015, , . | | 0 |
| 218 | 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 |
| 219 | Transition flight control simulations of bioinspired FWMAV with extended unsteady vortex-lattice method. , 2018, , . | | 0 |
| 220 | Conceptual design and dynamic analysis of bistable deployable structure. , 2018, , . | | 0 |
| 221 | 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 |
| 222 | Development of a variable-incidence-angle vortex generator for surface contaminated wind-turbine blades. , 2019, , . | | 0 |
| 223 | Wake Behavior Around Flapping Wings of Model Hawkmoth Moving Sideways. , 2019, , . | | 0 |
| 224 | Experimental and numerical study on shock reduction on thin plate with elastic patch. , 2020, , . | | 0 |
| 225 | Design of Bi-stable Mechanism Using Cylindrical Permanent Magnets. Journal of the Korean Society for Aeronautical & Space Sciences, 2020, 48, 343-354. | 0.1 | 0 |
| 226 | Vibration Analysis of SAR Antenna Reflectors During Satellite Maneuver. Journal of the Korean Society for Aeronautical & Space Sciences, 2020, 48, 225-231. | 0.1 | 0 |
| 227 | Kinematic analysis of a deployable truss structure with flat-form storability. , 2020, , . | | 0 |
| 228 | Automated Aerial Docking System using Vision-Based Deep Learning. , 2022, , . | | 0 |
| 229 | 10.1063/5.0094820.1. , 2022, , . | | 0 |
| 230 | 10.1063/5.0094820.2. , 2022, , . | | 0 |
| 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 |