Daisuke Ishihara

List of Publications by Year
in descending order

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Version: 2024-02-01

45	393	1162367	794141
papers	citations	8 h-index	19 g-index

45	45	45	186
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A two-dimensional computational study on the fluidâ€“structure interaction cause of wing pitch changes in dipteran flapping flight. Journal of Experimental Biology, 2009, 212, 1-10.	0.8	129
2	Passive maintenance of high angle of attack and its lift generation during flapping translation in crane fly wing. Journal of Experimental Biology, 2009, 212, 3882-3891.	0.8	68
3	A monolithic approach for interaction of incompressible viscous fluid and an elastic body based on fluid pressure Poisson equation. International Journal for Numerical Methods in Engineering, 2005, 64, 167-203.	1.5	51
4	Finite element analysis of a thin piezoelectric bimorph with a metal shim using solid direct-piezoelectric and shell inverse-piezoelectric coupling with pseudo direct-piezoelectric evaluation. Composite Structures, 2020, 245, 112284.	3.1	15
5	Hierarchically decomposed finite element method for a triply coupled piezoelectric, structure, and fluid fields of a thin piezoelectric bimorph in fluid. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 113006.	3.4	13
6	Performance Evaluation of Numerical Finite Element Coupled Algorithms for Structureâ€“Electric Interaction Analysis of MEMS Piezoelectric Actuator. International Journal of Computational Methods, 2019, 16, 1850106.	0.8	12
7	Computational Approach for the Fluid-Structure Interaction Design of Insect-Inspired Micro Flapping Wings. Fluids, 2022, 7, 26.	0.8	12
8	One-wing polymer micromachined transmission for insect-inspired flapping wing nano air vehicles. Engineering Research Express, 2021, 3, 045006.	0.8	9
9	Stability analysis and evaluation of staggered coupled analysis methods for electromagnetic and structural coupled finite element analysis. Computers and Structures, 2017, 178, 129-142.	2.4	8
10	Polymer Micromachined Transmission for Insectâ€“Inspired Flapping Wing Nano Air Vehicles. , 2020, , .		8
11	Design window search using continuous evolutionary algorithm and clusteringâ€“â€“its application to shape design of microelectrostatic actuator. Computers and Structures, 2002, 80, 2469-2481.	2.4	7
12	Efficient Parallel Analysis of Shell-fluid Interaction Problem by Using Monolithic Method Based on Consistent Pressure Poisson Equation. Journal of Computational Science and Technology, 2008, 2, 185-196.	0.4	7
13	Elasto-Plastic Contact, Electric Current and Thermal Conduction Triply Coupled Analysis Model for Resistance Spot Welding. Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society, 2015, 33, 271-282.	0.1	7
14	A novel coupling algorithm for the electric fieldâ€“structure interaction using a transformation method between solid and shell elements in a thin piezoelectric bimorph plate analysis. Finite Elements in Analysis and Design, 2019, 159, 33-49.	1.7	7
15	Fluid-Structure Interaction Modeling of Insect Flight (1st Report, Investigation of Automatic Wing) Tj ETQq1 1 0.784314 rgBT /Overlock RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 1410-1417.	0.2	6
16	Strongly coupled partitioned iterative method for the structureâ€“piezoelectricâ€“circuit interaction using hierarchical decomposition. Computers and Structures, 2021, 253, 106572.	2.4	6
17	Improved Design of Polymer Micromachined Transmission for Flapping Wing Nano Air Vehicle. , 2021, , .		4
18	Microfabrication of hybrid structure composed of rigid silicon and flexible PI membranes. Micro and Nano Letters, 2017, 12, 913-915.	0.6	4

#	Article	IF	Citations
19	A Study on the Passive Pitching and Lift Generation in Crane-Fly's Flight(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 601-607.	0.2	3
20	Element-Quality-Based Stiffening for the Pseudoelastic Mesh-Moving Technique. International Journal of Computational Methods, 2020, 17, 1850146.	0.8	3
21	Modeling the cambering of the flapping wings of an insect using rectangular shell finite elements. Journal of Advanced Simulation in Science and Engineering, 2020, 7, 181-188.	0.1	3
22	Partitioned Method of Insect Flapping Flight for Maneuvering Analysis. CMES - Computer Modeling in Engineering and Sciences, 2019, 121, 145-175.	0.8	2
23	Monolithic Approach for Fluid-Structure Interaction Based on Consistent Pressure Poisson Equation. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 1565-1572.	0.2	1
24	Development of Monolithic Method for Shell-fluid Interaction Based on Consistent Pressure Poisson Equation. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006, 72, 377-384.	0.2	1
25	Evaluation Using Dynamically Scaled Experiment of Dipteran Passive Pitching Motion Caused by Fluid-Structure Interaction. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2012, 78, 300-310.	0.2	1
26	Consistent Projection Method for Fluid-Structure Interaction. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 1161-1170.	0.2	1
27	Microfabrication of hybrid structure composed of rigid silicon and flexible polyimide membranes. , 2017, , .		1
28	Cycles of triply coupled mechanical contact, current, and thermal conduction phenomena during resistance spot welding. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 701-713.	1.3	1
29	Performance evaluation of the pixel wing model for the insect wing's camber. Journal of Advanced Simulation in Science and Engineering, 2021, 8, 163-172.	0.1	1
30	Pseudoelastic meshâ€“moving using a general scenario of the selective mesh stiffening. Journal of Advanced Simulation in Science and Engineering, 2019, 6, 67-74.	0.1	1
31	A Design Window Search Using Nonlinear Dynamic Simulation for Polymer Micro-machined Transmission in Insect-inspired Flapping wing Nano Air Vehicles. , 2021, , .		1
32	Efficient Strong Coupling Method for Fluid-Structure Interaction Based on Explicit Method for Structure and Semi-implicit method for Fluid. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 3098-3105.	0.2	0
33	Development of Strong Coupling Method Considering Non-conforming Mesh on Fluid-Structure Interface (1st Report, Verification of Method). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 1346-1353.	0.2	0
34	Efficient Parallel Analysis of Shell-fluid Interaction Problem by Monolithic Method Based on Consistent Pressure Poisson Equation. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 34-41.	0.2	0
35	Development of Strongly Coupled Method for Interaction of Structure, Incompressible Viscous Fluid and Electrostatic Field (1st Report, Rigid Body Approximation of Structure). Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2008, 74, 1068-1075.	0.2	0
36	Incremental Formulation of Pressure Based Method for Fluid-rigid Body Interaction Using Intermediate Variable and Its Verification. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2008, 74, 2419-2425.	0.2	0

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37	Finite Element Analysis Using Hierarchal Decomposition for Interaction of Structural, Fluidic and Electrostatic Fields in MEMS Structural Components. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 1291-1302.	0.2	0
38	Numerical study on aerodynamic effects in passive pitching dynamics of insect flapping wings. Transactions of the JSME (in Japanese), 2014, 80, CM0106-CM0106.	0.1	0
39	A Coupled Finite Element Analysis Approach Combining In-House and General-Purpose Codes. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2019, , 117-129.	0.1	0
40	J0202-1-1 A study on the passive pitching and lift generation in dipteran flight. The Proceedings of the JSME Annual Meeting, 2009, 2009.6, 125-126.	0.0	0
41	CM-JP-7 Finite element analysis for interaction problems of structure,fluid and electrostatic field in micro cantilever beams. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _CM-JP-7-1-_CM-JP-7-6.	0.0	0
42	Triply Coupled Effect of Elasto-Plastic Contact Deformation, Electric Current and Thermal Conduction of Steel Sheets Interfaces for Three Sheets Resistance Spot Welding. Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society, 2017, 35, 63-72.	0.1	0
43	A study on the partition method for the maneuverability of insect's flapping flight. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 225.	0.0	0
44	Computational control for strongly coupled structure, electric, and fluid systems. International Journal for Computational Methods in Engineering Science and Mechanics, 0, , 1-16.	1.4	0
45	2.5-dimensional insect-mimetic wing model for flapping wing nano air vehicles and design window search for manufacturable solutions using polymer micromachining. , 2022, , .		0