Tomoyoshi Horie

List of Publications by Year
in descending order

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36 papers	153 citations	1306789 7 h-index	1281420 11 g-index
36 all docs	36 docs citations	36 times ranked	37 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	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
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	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
8	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
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	Microfabrication of hybrid structure composed of rigid silicon and flexible polyimide membranes. , 2017, , .		1
11	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
12	Microfabrication of hybrid structure composed of rigid silicon and flexible PI membranes. Micro and Nano Letters, 2017, 12, 913-915.	0.6	4
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	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
15	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
16	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
17	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
18	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

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19	Non-contact control of elastic vibration with magnetic damping for non-ferromagnetic plate. International Journal of Applied Electromagnetics and Mechanics, 2010, 34, 249-264.	0.3	0
20	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
21	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
22	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
23	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
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	Fluid-Structure Interaction Modeling of Insect Flight (1st Report, Investigation of Automatic Wing) Tj ETQq1 1 0.784314 rgBT /Overlo RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 1410-1417.	0.2	6
26	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
27	Development of Domain Decomposition Method with Meshless Virtual Nodes. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2001, 44, 338-345.	0.4	1
28	Simplified analysis method for vibration of fusion reactor components with magnetic damping. Fusion Engineering and Design, 2000, 51-52, 263-271.	1.0	6
29	Evaluation Parameter of Vibration with Magnetic Damping. 2nd Report. Evaluation of Magnetic Damping Characteristics Using Coupling Intensity Parameter.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1999, 65, 2643-2650.	0.2	1
30	Evaluation method of magnetic damping effect for fusion reactor first wall. Fusion Engineering and Design, 1998, 42, 401-407.	1.0	5
31	Analysis of Magnetic Damping Problem by the Coupled Mode Superposition Method.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1997, 63, 1455-1461.	0.2	3
32	Development and Performance Evaluation of Parallel Finite Element Analysis Using a Network of Workstations.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1995, 61, 861-868.	0.2	2
33	Thermal shock fracture of graphite armor plate under the heat load of plasma disruption. Fusion Engineering and Design, 1989, 9, 181-186.	1.0	8
34	Improvement of an electron beam facility as a heat source for disruption simulation experiments. Fusion Engineering and Design, 1987, 5, 215-220.	1.0	18
35	An experimental study of the melting and vaporization of a solid wall subjected to high heat flux (Simulated plasma disruption by electron beam). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1986, 52, 934-939.	0.2	0
36	A simulated plasma disruption experiment using an electron beam as a heat source. Journal of Fusion Energy, 1986, 5, 181-189.	0.5	21