

Soshi Kawai

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,549
citations

516681

16
h-index

642715

23
g-index

25
all docs

25
docs citations

25
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	Wall-resolved LES of near-stall airfoil flow at $Re_c = 10^7$ using the supercomputer Fugaku. , 2022, , .		1
2	Modified wavenumber and aliasing errors of split convective forms for compressible flows. Journal of Computational Physics, 2022, 464, 111336.	3.8	9
3	Wall-modeled LES around the CRM-HL using Fully-automated Cartesian-grid-based Flow Solver FFVHC-ACE. , 2022, , .		6
4	A localized thickened flame model for simulations of flame propagation and autoignition under elevated pressure conditions. Proceedings of the Combustion Institute, 2021, 38, 2119-2126.	3.9	3
5	Preventing spurious pressure oscillations in split convective form discretization for compressible flows. Journal of Computational Physics, 2021, 427, 110060.	3.8	22
6	High-order accurate kinetic-energy and entropy preserving (KEEP) schemes on curvilinear grids. Journal of Computational Physics, 2021, 442, 110482.	3.8	21
7	Wall modeling for large-eddy simulation on non-body-conforming Cartesian grids. Physical Review Fluids, 2021, 6, .	2.5	15
8	Effects of the semi-local Reynolds number in scaling turbulent statistics for wall heated/cooled supersonic turbulent boundary layers. Physical Review Fluids, 2021, 6, .	2.5	9
9	A stable and non-dissipative kinetic energy and entropy preserving (KEEP) scheme for non-conforming block boundaries on Cartesian grids. Computers and Fluids, 2020, 200, 104427.	2.5	20
10	Turbulence Modeling for Turbulent Boundary Layers at Supercritical Pressure: A Model for Turbulent Mass Flux. Flow, Turbulence and Combustion, 2020, 104, 625-641.	2.6	4
11	Physics and modeling of trailing-edge stall phenomena for wall-modeled large-eddy simulation. Physical Review Fluids, 2020, 5, .	2.5	20
12	Heated transcritical and unheated non-transcritical turbulent boundary layers at supercritical pressures. Journal of Fluid Mechanics, 2019, 865, 563-601.	3.4	47
13	A Kriging-Based Dynamic Adaptive Sampling Method for Uncertainty Quantification. Transactions of the Japan Society for Aeronautical and Space Sciences, 2019, 62, 137-150.	0.7	5
14	A Simple Cellwise High-order Implicit Discontinuous Galerkin Scheme for Unsteady Turbulent Flows. Transactions of the Japan Society for Aeronautical and Space Sciences, 2019, 62, 93-107.	0.7	1
15	Wall-Modeled Large-Eddy Simulation of Transonic Airfoil Buffet at High Reynolds Number. AIAA Journal, 2018, 56, 2372-2388.	2.6	81
16	Kinetic energy and entropy preserving schemes for compressible flows by split convective forms. Journal of Computational Physics, 2018, 375, 823-853.	3.8	60
17	Large-eddy simulation of airfoil flow near stall condition at Reynolds number 2.1×10^6 . Physics of Fluids, 2018, 30, .	4.0	57
18	Large eddy simulation with modeled wall-stress: recent progress and future directions. Mechanical Engineering Reviews, 2016, 3, 15-00418-15-00418.	4.7	290

#	ARTICLE	IF	CITATIONS
19	A robust and accurate numerical method for transcritical turbulent flows at supercritical pressure with an arbitrary equation of state. <i>Journal of Computational Physics</i> , 2015, 300, 116-135.	3.8	46
20	Dynamic non-equilibrium wall-modeling for large eddy simulation at high Reynolds numbers. <i>Physics of Fluids</i> , 2013, 25, .	4.0	117
21	Consistent numerical diffusion terms for simulating compressible multicomponent flows. <i>Computers and Fluids</i> , 2013, 88, 484-495.	2.5	31
22	Wall-modeled large-eddy simulation of high Reynolds number flow around an airfoil near stall condition. <i>Computers and Fluids</i> , 2013, 85, 105-113.	2.5	38
23	Wall-modeling in large eddy simulation: Length scales, grid resolution, and accuracy. <i>Physics of Fluids</i> , 2012, 24, .	4.0	360
24	Large-Eddy Simulation of Jet Mixing in Supersonic Crossflows. <i>AIAA Journal</i> , 2010, 48, 2063-2083.	2.6	211
25	Compact Scheme with Filtering for Large-Eddy Simulation of Transitional Boundary Layer. <i>AIAA Journal</i> , 2008, 46, 690-700.	2.6	75