## Soshi Kawai

List of Publications by Year in descending order

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SOCHI KANAA

#	Article	IF	CITATIONS
1	Wall-modeling in large eddy simulation: Length scales, grid resolution, and accuracy. Physics of Fluids, 2012, 24, .	4.0	360
2	Large eddy simulation with modeled wall-stress: recent progress and future directions. Mechanical Engineering Reviews, 2016, 3, 15-00418-15-00418.	4.7	290
3	Large-Eddy Simulation of Jet Mixing in Supersonic Crossflows. AIAA Journal, 2010, 48, 2063-2083.	2.6	211
4	Dynamic non-equilibrium wall-modeling for large eddy simulation at high Reynolds numbers. Physics of Fluids, 2013, 25, .	4.0	117
5	Wall-Modeled Large-Eddy Simulation of Transonic Airfoil Buffet at High Reynolds Number. AIAA Journal, 2018, 56, 2372-2388.	2.6	81
6	Compact Scheme with Filtering for Large-Eddy Simulation of Transitional Boundary Layer. AIAA Journal, 2008, 46, 690-700.	2.6	75
7	Kinetic energy and entropy preserving schemes for compressible flows by split convective forms. Journal of Computational Physics, 2018, 375, 823-853.	3.8	60
8	Large-eddy simulation of airfoil flow near stall condition at Reynolds number 2.1 × 106. Physics of Fluids, 2018, 30, .	4.0	57
9	Heated transcritical and unheated non-transcritical turbulent boundary layers at supercritical pressures. Journal of Fluid Mechanics, 2019, 865, 563-601.	3.4	47
10	A robust and accurate numerical method for transcritical turbulent flows at supercritical pressure with an arbitrary equation of state. Journal of Computational Physics, 2015, 300, 116-135.	3.8	46
11	Wall-modeled large-eddy simulation of high Reynolds number flow around an airfoil near stall condition. Computers and Fluids, 2013, 85, 105-113.	2.5	38
12	Consistent numerical diffusion terms for simulating compressible multicomponent flows. Computers and Fluids, 2013, 88, 484-495.	2.5	31
13	Preventing spurious pressure oscillations in split convective form discretization for compressible flows. Journal of Computational Physics, 2021, 427, 110060.	3.8	22
14	High-order accurate kinetic-energy and entropy preserving (KEEP) schemes on curvilinear grids. Journal of Computational Physics, 2021, 442, 110482.	3.8	21
15	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
16	Physics and modeling of trailing-edge stall phenomena for wall-modeled large-eddy simulation. Physical Review Fluids, 2020, 5, .	2.5	20
17	Wall modeling for large-eddy simulation on non-body-conforming Cartesian grids. Physical Review Fluids, 2021, 6, .	2.5	15
18	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

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#	Article	IF	CITATIONS
19	Modified wavenumber and aliasing errors of split convective forms for compressible flows. Journal of Computational Physics, 2022, 464, 111336.	3.8	9
20	Wall-modeled LES around the CRM-HL using Fully-automated Cartesian-grid-based Flow Solver FFVHC-ACE. , 2022, , .		6
21	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
22	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
23	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
24	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
25	Wall-resolved LES of near-stall airfoil flow at Re c = 10^7 using the supercomputer Fugaku. , 2022, , .		1