

Mitsuo Yokokawa

List of Publications by Year in descending order

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40
papers

1,341
citations

759233

12
h-index

580821

25
g-index

41
all docs

41
docs citations

41
times ranked

1054
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizations of DNS Codes for Turbulence on SX-Aurora TSUBASA. , 2021, , 51-59.		0
2	Statistics of local Reynolds number in box turbulence: ratio of inertial to viscous forces. Journal of Fluid Mechanics, 2021, 929, .	3.4	2
3	Evaluation of aerodynamic instability for building using fluid-structure interaction analysis combined with multi-degree-of-freedom structure model and large-eddy simulation. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 197, 104052.	3.9	8
4	Second-order velocity structure functions in direct numerical simulations of turbulence with Re_λ up to 2250. Physical Review Fluids, 2020, 5, .	2.5	11
5	Performance of a Two-Path Aliasing Free Calculation of a Spectral DNS Code. Lecture Notes in Computer Science, 2019, , 587-595.	1.3	1
6	Performance Evaluation of a Vector Supercomputer SX-Aurora TSUBASA. , 2018, , .		66
7	Preconditioner Auto-Tuning Using Deep Learning for Sparse Iterative Algorithms. , 2018, , .		4
8	Iterative-method performance evaluation for multiple vectors associated with a large-scale sparse matrix. International Journal of Computational Fluid Dynamics, 2016, 30, 395-401.	1.2	2
9	Improving the energy efficiencies of power supply and cooling facilities for 10 peta-scale supercomputer. Computer Science - Research and Development, 2016, 31, 235-243.	2.7	1
10	Energy spectrum in high-resolution direct numerical simulations of turbulence. Physical Review Fluids, 2016, 1, .	2.5	79
11	Accurate Parallel Algorithm for Tracking Inertial Particles in Large-Scale Direct Numerical Simulations of Turbulence. Lecture Notes in Computer Science, 2015, , 522-527.	1.3	3
12	Performance evaluation of ultra-large-scale first-principles electronic structure calculation code on the K computer. International Journal of High Performance Computing Applications, 2014, 28, 335-355.	3.7	40
13	The K computer Operations: Experiences and Statistics. Procedia Computer Science, 2014, 29, 576-585.	2.0	23
14	The design of ultra scalable MPI collective communication on the K computer. Computer Science - Research and Development, 2013, 28, 147-155.	2.7	18
15	High-speed classification of coherent X-ray diffraction patterns on the K computer for high-resolution single biomolecule imaging. Journal of Synchrotron Radiation, 2013, 20, 899-904.	2.4	6
16	The K computer - Toward its productive applications to our life. , 2012, , .		0
17	An Implementation of Parallel 1-D FFT on the K Computer. , 2012, , .		6
18	The K Computer and its Application. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
19	The K computer: Japanese next-generation supercomputer development project. , 2011, , .		56
20	First-principles calculations of electron states of a silicon nanowire with 100,000 atoms on the K computer. , 2011, , .		51
21	Fragment molecular orbital study of the electronic excitations in the photosynthetic reaction center of <i>Blastochloris viridis</i> . Journal of Computational Chemistry, 2010, 31, 447-454.	3.3	23
22	GridFMO – Quantum chemistry of proteins on the grid. , 2007, , .		4
23	Small-scale statistics in high-resolution direct numerical simulation of turbulence: Reynolds number dependence of one-point velocity gradient statistics. Journal of Fluid Mechanics, 2007, 592, 335-366.	3.4	225
24	Statistics of Energy Transfer in High-Resolution Direct Numerical Simulation of Turbulence in a Periodic Box. Journal of the Physical Society of Japan, 2005, 74, 3202-3212.	1.6	49
25	Energy Spectrum in the Near Dissipation Range of High Resolution Direct Numerical Simulation of Turbulence. Journal of the Physical Society of Japan, 2005, 74, 1464-1471.	1.6	40
26	Hardware system of the Earth Simulator. Parallel Computing, 2004, 30, 1287-1313.	2.1	27
27	Scalability of hybrid programming for a CFD code on the Earth Simulator. Parallel Computing, 2004, 30, 1329-1343.	2.1	8
28	High-Resolution Direct Numerical Simulation of Turbulence – Spectra of Fourth-Order Velocity Moments –. Fluid Mechanics and Its Applications, 2004, , 155-162.	0.2	1
29	Spectra of Energy Dissipation, Enstrophy and Pressure by High-Resolution Direct Numerical Simulations of Turbulence in a Periodic Box. Journal of the Physical Society of Japan, 2003, 72, 983-986.	1.6	41
30	Energy dissipation rate and energy spectrum in high resolution direct numerical simulations of turbulence in a periodic box. Physics of Fluids, 2003, 15, L21-L24.	4.0	479
31	Successful Achievement in Developing the Earth Simulator. , 2003, , 131-138.		1
32	Performance of Atmospheric General Circulation Model using the Spectral Transform Method on the Earth Simulator. , 2003, , 79-86.		2
33	DNS of Canonical Turbulence with up to 40963 Grid Points. , 1996, , 23-32.		0
34	Parallel simulation on rayleigh-bénard convection in 2D by the direct simulation monte carlo method. , 1996, , 75-80.		0
35	Growth of long-range correlations in a transition between heat conduction and convection. Physical Review E, 1995, 52, 1601-1605.	2.1	9
36	Reply to – Comment on – Simulation of a two-dimensional Rayleigh-Bénard system using the direct simulation Monte Carlo method –. Physical Review E, 1995, 51, 3786-3787.	2.1	5

#	ARTICLE	IF	CITATIONS
37	Simulation of a two-dimensional Rayleigh-Bénard system using the direct simulation Monte Carlo method. <i>Physical Review E</i> , 1994, 49, 4060-4064.	2.1	42
38	Computer Simulation of Two-Dimensional Continuum Flows by the Direct Simulation Monte Carlo Method. <i>Molecular Simulation</i> , 1994, 12, 441-444.	2.0	4
39	(JAERI) The First International Conference on Supercomputing in Nuclear Applications. <i>Journal of Nuclear Science and Technology</i> , 1990, 27, 683-686.	1.3	0
40	Application of some iterative methods to wind field calculation.. <i>Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan</i> , 1987, 29, 158-163.	0.0	0