Mitsuo Yokokawa

List of Publications by Year
in descending order

40	1,341	759233 12	580821 25
papers	citations	h-index	g-index

41	41	41	1054
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Energy spectrum in high-resolution direct numerical simulations of turbulence. Physical Review Fluids, 2016, 1, .	2.5	79
4	Performance Evaluation of a Vector Supercomputer SX-Aurora TSUBASA. , 2018, , .		66
5	The K computer: Japanese next-generation supercomputer development project. , 2011, , .		56
6	First-principles calculations of electron states of a silicon nanowire with 100,000 atoms on the K computer. , 2011, , .		51
7	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
8	Simulation of a two-dimensional Rayleigh-BÃ©nard system using the direct simulation Monte Carlo method. Physical Review E, 1994, 49, 4060-4064.	2.1	42
9	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
10	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
11	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
12	Hardware system of the Earth Simulator. Parallel Computing, 2004, 30, 1287-1313.	2.1	27
13	Fragment molecular orbital study of the electronic excitations in the photosynthetic reaction center of Blastochloris viridis. Journal of Computational Chemistry, 2010, 31, 447-454.	3.3	23
14	The K computer Operations: Experiences and Statistics. Procedia Computer Science, 2014, 29, 576-585.	2.0	23
15	The design of ultra scalable MPI collective communication on the K computer. Computer Science - Research and Development, 2013, 28, 147-155.	2.7	18
16	Second-order velocity structure functions in direct numerical simulations of turbulence with RÎ» up to 2250. Physical Review Fluids, 2020, 5, .	2.5	11
17	Growth of long-range correlations in a transition between heat conduction and convection. Physical Review E, 1995, 52, 1601-1605.	2.1	9
18	Scalability of hybrid programming for a CFD code on the Earth Simulator. Parallel Computing, 2004, 30, 1329-1343.	2.1	8

#	Article	IF	Citations
19	Evaluation of aerodynamic instability for building using fluidâ€“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
20	An Implementation of Parallel 1-D FFT on the K Computer. , 2012, , .		6
21	High-speed classification of coherent X-ray diffractionÂpatterns on the K computer for high-resolution single biomolecule imaging. Journal of Synchrotron Radiation, 2013, 20, 899-904.	2.4	6
22	Reply to â€˜â€˜Comment on â€˜Simulation of a two-dimensional Rayleigh-BÃ©nard system using the direct simulation Monte Carlo methodâ€™ â€™â€™. Physical Review E, 1995, 51, 3786-3787.	2.1	5
23	Computer Simulation of Two-Dimensional Continuum Flows by the Direct Simulation Monte Carlo Method. Molecular Simulation, 1994, 12, 441-444.	2.0	4
24	GridFMO â€” Quantum chemistry of proteins on the grid. , 2007, , .		4
25	The K Computer and its Application. , 2012, , .		4
26	Preconditioner Auto-Tuning Using Deep Learning for Sparse Iterative Algorithms. , 2018, , .		4
27	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
28	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
29	Statistics of local Reynolds number in box turbulence: ratio of inertial to viscous forces. Journal of Fluid Mechanics, 2021, 929, .	3.4	2
30	Performance of Atmospheric General Circulation Model using the Spectral Transform Method on the Earth Simulator. , 2003, , 79-86.		2
31	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
32	Performance of a Two-Path Aliasing Free Calculation of a Spectral DNS Code. Lecture Notes in Computer Science, 2019, , 587-595.	1.3	1
33	Successful Achievement in Developing the Earth Simulator. , 2003, , 131-138.		1
34	High-Resolution Direct Numerical Simulation of Turbulence â€” Spectra of Fourth-Order Velocity Moments â€”. Fluid Mechanics and Its Applications, 2004, , 155-162.	0.2	1
35	(JAERI) The First International Conference on Supercomputing in Nuclear Applications. Journal of Nuclear Science and Technology, 1990, 27, 683-686.	1.3	0
36	DNS of Canonical Turbulence with up to 40963 Grid Points. , 1996, , 23-32.		0

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37	The K computer - Toward its productive applications to our life. , 2012, , .		0
38	Optimizations of DNS Codes for Turbulence on SX-Aurora TSUBASA. , 2021, , 51-59.		0
39	Application of some iterative methods to wind field calculation.. Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan, 1987, 29, 158-163.	0.0	0
40	Parallel simulation on rayleigh-bÃ©nard convection in 2D by the direct simulation monte carlo method. , 1996, , 75-80.		0