

# Hiroshi Watanabe

## List of Publications by Year in descending order

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48  
papers

833  
citations

567281

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501196

28  
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all docs

49  
docs citations

49  
times ranked

921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of vapor-liquid phase transitions on sound-wave propagation: A molecular dynamics study. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	1
2	Effects of polymers on the cavitating flow around a cylinder: A large-scale molecular dynamics analysis. <i>Journal of Chemical Physics</i> , 2021, 155, 014905.	3.0	3
3	Molecular dynamics simulation of soundwave propagation in a simple fluid. <i>Journal of Chemical Physics</i> , 2020, 153, 124504.	3.0	4
4	Effects of cavitation on Kármán vortex behind circular-cylinder arrays: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2020, 152, 034501.	3.0	9
5	Finite-Size Effects on Kármán Vortex in Molecular Dynamics Simulation. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 075003.	1.6	5
6	Fast Algorithm for Generating Random Bit Strings and Multispin Coding for Directed Percolation. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 024004.	1.6	1
7	SIMD vectorization for the Lennard-Jones potential with AVX2 and AVX-512 instructions. <i>Computer Physics Communications</i> , 2019, 237, 1-7.	7.5	9
8	Macroscopic Magnetization Control by Symmetry Breaking of Photoinduced Spin Reorientation with Intense Terahertz Magnetic Near Field. <i>Physical Review Letters</i> , 2018, 120, 107202.	7.8	53
9	Polymer effects on Kármán vortex: Molecular dynamics study. <i>Journal of Chemical Physics</i> , 2018, 148, 144901.	3.0	11
10	Stability of velocity-Verlet- and Liouville-operator-derived algorithms to integrate non-Hamiltonian systems. <i>Journal of Chemical Physics</i> , 2018, 149, 154101.	3.0	7
11	Failure of Deterministic and Stochastic Thermostats to Control Temperature of Molecular Systems. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 075004.	1.6	1
12	Electron Transfer Pathways in a Multiheme Cytochrome MtrF. <i>Seibutsu Butsuri</i> , 2017, 57, 151-152.	0.1	0
13	Ripening kinetics of bubbles: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2016, 145, 124707.	3.0	7
14	Scaling relation for dangerously irrelevant symmetry-breaking fields. <i>Physical Review B</i> , 2015, 91, .	3.2	18
15	Dynamics of photoinduced change of magnetoanisotropy parameter in orthoferrites probed with terahertz excited coherent spin precession. <i>Physical Review B</i> , 2015, 92, .	3.2	42
16	Optically detecting the edge-state of a three-dimensional topological insulator under ambient conditions by ultrafast infrared photoluminescence spectroscopy. <i>Scientific Reports</i> , 2015, 5, 16443.	3.3	4
17	Layer number dependence of carrier lifetime in graphenes observed using time-resolved mid-infrared luminescence. <i>Chemical Physics Letters</i> , 2015, 637, 58-62.	2.6	7
18	Magnetization-free measurements of spin orientations in orthoferrites using terahertz time domain spectroscopy. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	20

#	ARTICLE	IF	CITATIONS
19	Ostwald ripening in multiple-bubble nuclei. <i>Journal of Chemical Physics</i> , 2014, 141, 234703.	3.0	26
20	Ultrafast dynamics of photoinduced semiconductor-to-metal transition in the optical switching nano-oxide Ti <sub>3</sub> O <sub>5</sub> . <i>Physical Review B</i> , 2014, 90, .	3.2	24
21	Nonlinear photoluminescence properties of trions in hole-doped single-walled carbon nanotubes. <i>Physical Review B</i> , 2014, 89, .	3.2	15
22	Huge-scale molecular dynamics simulation of multibubble nuclei. <i>Computer Physics Communications</i> , 2013, 184, 2775-2784.	7.5	19
23	Phosphite-driven Self-sufficient Cytochrome P450. <i>ChemCatChem</i> , 2013, 5, 3835-3840.	3.7	11
24	Possibility of deconfined criticality in SU( $N$ ) ETQq0 0 0 rgBT /Overlock 10 Tf 50 557 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>. <i>Physical Review B</i> , 2013, 88, .	3.2	86
25	Usefulness of an equal-probability assumption for out-of-equilibrium states: A master equation approach. <i>Physical Review E</i> , 2012, 86, 041133.	2.1	1
26	Phase diagram and universality of the Lennard-Jones gas-liquid system. <i>Journal of Chemical Physics</i> , 2012, 136, 204102.	3.0	105
27	Molecular Dynamics Study of Rotating Nanodroplets: Finite-size Effects and Nonequilibrium Deformation. <i>Journal of Physics: Conference Series</i> , 2011, 297, 012023.	0.4	1
28	Static and dynamical aspects of the metastable states of first order transition systems. <i>Physics Procedia</i> , 2011, 15, 76-80.	1.2	4
29	Evaporation-condensation transition of the two-dimensional Potts model in the microcanonical ensemble. <i>Physical Review E</i> , 2011, 84, 061107.	2.1	15
30	Efficient Implementations of Molecular Dynamics Simulations for Lennard-Jones Systems. <i>Progress of Theoretical Physics</i> , 2011, 126, 203-235.	2.0	15
31	Efficiencies of dynamic Monte Carlo algorithms for off-lattice particle systems with a single impurity. <i>Physics Procedia</i> , 2010, 3, 1481-1485.	1.2	0
32	Cumulative distribution functions associated with bubble-nucleation processes in cavitation. <i>Physical Review E</i> , 2010, 82, 051604.	2.1	27
33	Dynamical study of a polydisperse hard-sphere system. <i>Physical Review E</i> , 2010, 82, 021201.	2.1	10
34	Efficiency of rejection-free methods for dynamic Monte Carlo studies of off-lattice interacting particles. <i>Physical Review E</i> , 2009, 79, 026706.	2.1	4
35	Non-Equilibrium Relaxation Analysis on Two-Dimensional Melting. <i>Progress of Theoretical Physics Supplement</i> , 2009, 178, 41-48.	0.1	0
36	Mapping functions and critical behavior of percolation on rectangular domains. <i>Physical Review E</i> , 2008, 78, 041131.	2.1	5

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37	Markovian Approximation for the Nosé-Hoover Method and H-Theorem. Journal of the Physical Society of Japan, 2008, 77, 103001.	1.6	1
38	Ergodicity of a thermostat family of the Nosé-Hoover type. Physical Review E, 2007, 75, 040102.	2.1	18
39	Massively parallel quantum computer simulator. Computer Physics Communications, 2007, 176, 121-136.	7.5	138
40	Efficiency of rejection-free dynamic Monte Carlo methods for homogeneous spin models, hard disk systems, and hard sphere systems. Physical Review E, 2006, 74, 026707.	2.1	4
41	Positional order and diffusion processes in particle systems. Physical Review E, 2006, 74, 030201.	2.1	1
42	Watanabe and Hu Reply:. Physical Review Letters, 2005, 95, .	7.8	8
43	Size-dispersy effects in two-dimensional melting. Physical Review E, 2005, 71, 016702.	2.1	11
44	Superscaling of Percolation on Rectangular Domains. Physical Review Letters, 2004, 93, 190601.	7.8	19
45	Critical exponents of isotropic-hexatic phase transition in the hard-disk system. Physical Review E, 2004, 69, 045103.	2.1	19
46	Nonequilibrium relaxation analysis of two-dimensional melting. Physical Review E, 2002, 66, 041110.	2.1	20
47	Polydispersity Effect and Universality of Finite-Size Scaling Function. Journal of the Physical Society of Japan, 2001, 70, 1537-1542.	1.6	10
48	Escape probability of a random walker on a lattice doped with absorbers. Journal of Chemical Physics, 1978, 69, 4872-4875.	3.0	7