Xiantao Li

List of Publications by Year in descending order

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YIANITAO L

#	Article	IF	CITATIONS
1	Incorporation of memory effects in coarse-grained modeling via the Mori-Zwanzig formalism. Journal of Chemical Physics, 2015, 143, 243128.	3.0	107
2	Data-driven parameterization of the generalized Langevin equation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14183-14188.	7.1	103
3	Multiscale modeling of the dynamics of solids at finite temperature. Journal of the Mechanics and Physics of Solids, 2005, 53, 1650-1685.	4.8	96
4	Variational boundary conditions for molecular dynamics simulations of crystalline solids at finite temperature: Treatment of the thermal bath. Physical Review B, 2007, 76, .	3.2	44
5	A coarseâ€grained molecular dynamics model for crystalline solids. International Journal for Numerical Methods in Engineering, 2010, 83, 986-997.	2.8	38
6	A generalized Irving–Kirkwood formula for the calculation of stress in molecular dynamics models. Journal of Chemical Physics, 2012, 137, 134104.	3.0	37
7	Computation of the memory functions in the generalized Langevin models for collective dynamics of macromolecules. Journal of Chemical Physics, 2014, 141, 064112.	3.0	31
8	A multiscale coupling method for the modeling of dynamics of solids with application to brittle cracks. Journal of Computational Physics, 2010, 229, 3970-3987.	3.8	27
9	The derivation and approximation of coarse-grained dynamics from Langevin dynamics. Journal of Chemical Physics, 2016, 145, 204117.	3.0	26
10	Some Recent Progress in Multiscale Modeling. Lecture Notes in Computational Science and Engineering, 2004, , 3-21.	0.3	25
11	Data-driven molecular modeling with the generalized Langevin equation. Journal of Computational Physics, 2020, 418, 109633.	3.8	21
12	Comparative study of boundary conditions for molecular dynamics simulations of solids at low temperature. Physical Review B, 2006, 73, .	3.2	15
13	Coarseâ€graining molecular dynamics models using an extended Galerkin projection method. International Journal for Numerical Methods in Engineering, 2014, 99, 157-182.	2.8	13
14	Coarse-graining Langevin dynamics using reduced-order techniques. Journal of Computational Physics, 2019, 380, 170-190.	3.8	13
15	Variational boundary conditions for molecular dynamics simulations: Treatment of the loading condition. Journal of Computational Physics, 2008, 227, 10078-10093.	3.8	12
16	Efficient boundary conditions for molecular statics models of solids. Physical Review B, 2009, 80, .	3.2	12
17	Parametric reduced models for the nonlinear SchrĶdinger equation. Physical Review E, 2015, 91, 053306.	2.1	12
18	On the stability of boundary conditions for molecular dynamics. Journal of Computational and Applied Mathematics, 2009, 231, 493-505.	2.0	11

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19	On the Effect of Ghost Force in the Quasicontinuum Method: Dynamic Problems in One Dimension. Communications in Computational Physics, 2014, 15, 647-676.	1.7	9
20	The Mori–Zwanzig formalism for the derivation of a fluctuating heat conduction model from molecular dynamics. Communications in Mathematical Sciences, 2019, 17, 539-563.	1.0	9
21	A bifurcation study of crack initiation and kinking. European Physical Journal B, 2013, 86, 1.	1.5	8
22	The Discontinuous Galerkin Method for the Multiscale Modeling of Dynamics of Crystalline Solids. Multiscale Modeling and Simulation, 2008, 7, 294-320.	1.6	7
23	An atomistic-based boundary element method for the reduction of molecular statics models. Computer Methods in Applied Mechanics and Engineering, 2012, 225-228, 1-13.	6.6	7
24	Absorbing boundary conditions for time-dependent SchrĶdinger equations: A density-matrix formulation. Journal of Chemical Physics, 2019, 150, 114111.	3.0	7
25	Estimating linear response statistics using orthogonal polynomials: An rkhs formulation. , 2020, 2, 443-485.		7
26	On consistent definitions of momentum and energy fluxes for molecular dynamics models with multi-body interatomic potentials. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 015003.	2.0	6
27	A numerical study of crack initiation in a bcc iron system based on dynamic bifurcation theory. Journal of Applied Physics, 2014, 116, 164314.	2.5	5
28	Heat conduction in nanoscale materials: A statistical-mechanics derivation of the local heat flux. Physical Review E, 2014, 90, 032112.	2.1	5
29	From generalized Langevin equations to Brownian dynamics and embedded Brownian dynamics. Journal of Chemical Physics, 2016, 145, 114102.	3.0	5
30	Stable absorbing boundary conditions for molecular dynamics in general domains. Computational Mechanics, 2018, 62, 1259-1272.	4.0	5
31	A parameter estimation method using linear response statistics: Numerical scheme. Chaos, 2019, 29, 033101.	2.5	5
32	Exponential integrators for stochastic SchrĶdinger equations. Physical Review E, 2020, 101, 013312.	2.1	5
33	Multiscale Modeling Of Crystalline Solids. , 2005, , 1491-1506.		5
34	Quantum simulation in the semi-classical regime. Quantum - the Open Journal for Quantum Science, 0, 6, 739.	0.0	5
35	A Parameter Estimation Method Using Linear Response Statistics. Journal of Statistical Physics, 2017, 168, 146-170.	1.2	4
36	Absorbing boundary conditions for the time-dependent SchrĶdinger-type equations in R3. Physical Review E, 2020, 101, 013304.	2.1	4

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37	Error bounds of the invariant statistics in machine learning of ergodic Itô diffusions. Physica D: Nonlinear Phenomena, 2021, 427, 133022.	2.8	4
38	PEXSI-\$Sigma\$: a Green's function embedding method for Kohn–Sham density functional theory. Annals of Mathematical Sciences and Applications, 2018, 3, 441-472.	0.4	4
39	A Study on the Quasi-continuum Approximations of a One-Dimensional Fracture Model. Multiscale Modeling and Simulation, 2014, 12, 1379-1400.	1.6	3
40	An Atomistic/Continuum Coupling Method Using Enriched Bases. Multiscale Modeling and Simulation, 2015, 13, 766-789.	1.6	3
41	On the Cauchy–Born approximation at finite temperature. Computational Materials Science, 2015, 99, 21-28.	3.0	3
42	Traction boundary conditions for molecular static simulations. Computer Methods in Applied Mechanics and Engineering, 2016, 308, 310-329.	6.6	3
43	On the Asymptotic Behavior of the Kernel Function in the Generalized Langevin Equation: A One-Dimensional Lattice Model. Journal of Statistical Physics, 2018, 170, 378-398.	1.2	3
44	Markovian embedding procedures for non-Markovian stochastic Schrödinger equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 387, 127036.	2.1	3
45	INTRODUCTION TO MOLECULAR DYNAMICS SIMULATIONS. Lecture Notes Series, Institute for Mathematical Sciences, 2011, , 95-146.	0.2	2
46	Reduced-Order Modeling Approach for Electron Transport in Molecular Junctions. Journal of Chemical Theory and Computation, 2020, 16, 3746-3756.	5.3	2
47	Petrov–Galerkin methods for the construction of non-Markovian dynamics preserving nonlocal statistics. Journal of Chemical Physics, 2021, 154, 184108.	3.0	2
48	Fluctuation-dissipation theorem consistent approximation of the Langevin dynamics model. Communications in Mathematical Sciences, 2017, 15, 1171-1181.	1.0	2
49	Simulations of micron-scale fracture using atomistic-based boundary element method. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 085008.	2.0	1
50	Linear response based parameter estimation in the presence of model error. Journal of Computational Physics, 2021, 430, 110112.	3.8	1
51	A projection-based reduced-order method for electron transport problems with long-range interactions. Journal of Chemical Physics, 2021, 155, 114105.	3.0	1
52	Projectionâ€based model reduction for the immersed boundary method. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3558.	2.1	1
53	Some error analysis for the quantum phase estimation algorithms. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 325303.	2.1	1
54	Interface Conditions for Coupled Atomistic and Continuum Models of Solids for Dynamics Problems at Finite Temperature. Materials Research Society Symposia Proceedings, 2006, 978, .	0.1	0

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55	The Heterogeneous Multiscale Method for Dynamics of Solids with Applications to Brittle Cracks. Materials Research Society Symposia Proceedings, 2009, 1229, 10201.	0.1	0
56	The computation of local stress in <i>ab initio</i> molecular simulations. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 065016.	2.0	0
57	Nonlinear Constitutive Models for Nano-Scale Heat Conduction. Multiscale Modeling and Simulation, 2021, 19, 533-549.	1.6	0