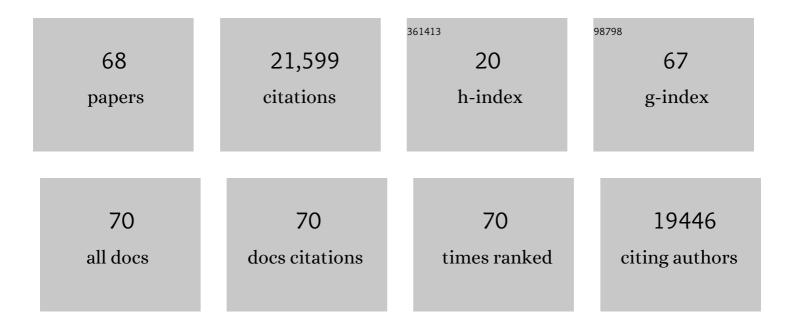
Giovanni Ciccotti

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Molecular simulations: past, present, and future (a Topical Issue in EPJB). European Physical Journal B, 2022, 95, 1.	1.5	20
2	Jarzynski equality on work and free energy: Crystal indentation as a case study. Journal of Chemical Physics, 2022, 156, 114118.	3.0	2
3	Jarzynski on work and free energy relations: The case of variable volume. AICHE Journal, 2021, 67, .	3.6	4
4	A new boundary driven NEMD scheme for heat and particle diffusion in binary mixtures. Molecular Physics, 2021, 119, .	1.7	6
5	The breakthrough of a quantum chemist by classical dynamics: Martin Karplus and the birth of computer simulations of chemical reactions. European Physical Journal H, 2021, 46, 1.	0.8	1
6	Dynamical nonequilibrium molecular dynamics reveals the structural basis for allostery and signal propagation in biomolecular systems. European Physical Journal B, 2021, 94, 144.	1.5	23
7	Mass-Zero constrained dynamics and statistics for the shell model in magnetic field. European Physical Journal B, 2021, 94, 1.	1.5	3
8	Quantum Trajectories for the Dynamics in the Exact Factorization Framework: A Proof-of-Principle Test. Journal of Physical Chemistry A, 2020, 124, 6764-6777.	2.5	14
9	Mass-zero constrained molecular dynamics for electrode charges in simulations of electrochemical systems. Journal of Chemical Physics, 2020, 152, 194701.	3.0	16
10	Adiabatic motion and statistical mechanics <i>via</i> mass-zero constrained dynamics. Physical Chemistry Chemical Physics, 2020, 22, 10775-10785.	2.8	15
11	The physics of open systems for the simulation of complex molecular environments in soft matter. Soft Matter, 2019, 15, 2114-2124.	2.7	18
12	On computing the solubility of molecular systems subject to constraints using the extended Einstein crystal method. Journal of Chemical Physics, 2019, 150, 201104.	3.0	4
13	Solubility of paracetamol in ethanol by molecular dynamics using the extended Einstein crystal method and experiments. Journal of Chemical Physics, 2019, 150, 094107.	3.0	19
14	Ab initio accelerated molecular dynamics study of the hydride ligands in the ruthenium complex: Ru(H2)2H2(P(C5H9)3)2. Physical Chemistry Chemical Physics, 2019, 21, 25247-25257.	2.8	1
15	A General Mechanism for Signal Propagation in the Nicotinic Acetylcholine Receptor Family. Journal of the American Chemical Society, 2019, 141, 19953-19958.	13.7	25
16	On the force–velocity relationship of a bundle of rigid bio-filaments. Journal of Chemical Physics, 2018, 148, 095101.	3.0	6
17	Nucleation of Molecular Crystals Driven by Relative Information Entropy. Journal of Chemical Theory and Computation, 2018, 14, 959-972.	5.3	27
18	Communication: Constrained molecular dynamics for polarizable models. Journal of Chemical Physics. 2018. 149. 191102.	3.0	16

GIOVANNI CICCOTTI

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19	Time reversal and symmetries of time correlation functions. Molecular Physics, 2018, 116, 3097-3103.	1.7	13
20	Holonomic Constraints: A Case for Statistical Mechanics of Non-Hamiltonian Systems. Computation, 2018, 6, 11.	2.0	9
21	Molecular Dynamics vs. Stochastic Processes: Are We Heading Anywhere?. Entropy, 2018, 20, 348.	2.2	2
22	Nuclear quantum effects in electronic (non)adiabatic dynamics. European Physical Journal B, 2018, 91, 1.	1.5	28
23	Berni Alder and the pioneering times of molecular simulation. European Physical Journal H, 2018, 43, 303-335.	0.8	17
24	Mechanisms and Nucleation Rate of Methane Hydrate by Dynamical Nonequilibrium Molecular Dynamics. Journal of Physical Chemistry C, 2017, 121, 24223-24234.	3.1	30
25	Thermal Diffusion in Binary Mixtures: Transient Behavior and Transport Coefficients from Equilibrium and Nonequilibrium Molecular Dynamics. Langmuir, 2017, 33, 11281-11290.	3.5	15
26	Time-reversal symmetry for systems in a constant external magnetic field. Physical Review E, 2017, 96, 012160.	2.1	14
27	Particle-Based Modeling of Living Actin Filaments in an Optical Trap. Polymers, 2016, 8, 343.	4.5	1
28	On the properties of a bundle of flexible actin filaments in an optical trap. Journal of Chemical Physics, 2016, 144, 245102.	3.0	3
29	On metastability and Markov state models for non-stationary molecular dynamics. Journal of Chemical Physics, 2016, 145, 174103.	3.0	15
30	Non-equilibrium by molecular dynamics: a dynamical approach. Molecular Simulation, 2016, 42, 1385-1400.	2.0	30
31	Spontaneous chiral symmetry breaking in collective active motion. Physical Review E, 2016, 93, 022410.	2.1	13
32	On the establishment of thermal diffusion in binary Lennard-Jones liquids. European Physical Journal: Special Topics, 2016, 225, 1629-1642.	2.6	9
33	A semi-flexible model prediction for the polymerization force exerted by a living F-actin filament on a fixed wall. Journal of Chemical Physics, 2015, 143, 145101.	3.0	6
34	Gas phase infrared spectra from quasi-classical Kubo time correlation functions. Molecular Physics, 2015, 113, 2894-2904.	1.7	4
35	The trees and the forest. European Physical Journal: Special Topics, 2015, 224, 2515-2518.	2.6	6
36	Clathrate structure-type recognition: Application to hydrate nucleation and crystallisation. Journal of Chemical Physics, 2015, 142, 244503.	3.0	33

GIOVANNI CICCOTTI

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37	A Structural Model of the Human α7 Nicotinic Receptor in an Open Conformation. PLoS ONE, 2015, 10, e0133011.	2.5	11
38	Time reversal symmetry in time-dependent correlation functions for systems in a constant magnetic field. Europhysics Letters, 2014, 108, 60004.	2.0	19
39	Approximating Time-Dependent Quantum Statistical Properties. Entropy, 2014, 16, 86-109.	2.2	2
40	Methane Clathrate Hydrate Nucleation Mechanism by Advanced Molecular Simulations. Journal of Physical Chemistry C, 2014, 118, 22847-22857.	3.1	87
41	Gas phase infrared spectra via the phase integration quasi-classical method. Molecular Simulation, 2014, 40, 196-207.	2.0	3
42	Exploring the Conformational Dynamics of Alanine Dipeptide in Solution Subjected to an External Electric Field: A Nonequilibrium Molecular Dynamics Simulation. Journal of Chemical Theory and Computation, 2014, 10, 1376-1386.	5.3	17
43	Electroless formation of silver nanoaggregates: an experimental and molecular dynamics approach. Molecular Physics, 2014, 112, 1375-1388.	1.7	6
44	Conformational Changes in Acetylcholine Binding Protein Investigated by Temperature Accelerated Molecular Dynamics. PLoS ONE, 2014, 9, e88555.	2.5	16
45	Quantum dynamical structure factor of liquid neon via a quasiclassical symmetrized method. Journal of Chemical Physics, 2013, 138, 054118.	3.0	11
46	An observable for vacancy characterization and diffusion in crystals. Journal of Chemical Physics, 2013, 138, 144103.	3.0	5
47	Probing the Structures of Hydrated Nafion in Different Morphologies Using Temperature-Accelerated Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2013, 117, 774-782.	3.1	17
48	Adaptive resolution molecular dynamics simulation through coupling to an internal particle reservoir. Physical Review Letters, 2012, 108, 170602.	7.8	126
49	Hydrodynamics from statistical mechanics: combined dynamical-NEMD and conditional sampling to relax an interface between two immiscible liquids. Physical Chemistry Chemical Physics, 2011, 13, 13177.	2.8	27
50	Temperature accelerated Monte Carlo (TAMC): a method for sampling the free energy surface of non-analytical collective variables. Physical Chemistry Chemical Physics, 2011, 13, 5952.	2.8	31
51	Combining Rare Events Techniques: Phase Change in Si Nanoparticles. Journal of Statistical Physics, 2011, 145, 812-830.	1.2	12
52	Linearized symmetrized quantum time correlation functions calculation via phase pre-averaging. Molecular Physics, 2011, 109, 3015-3027.	1.7	13
53	Path integral based calculations of symmetrized time correlation functions. II. Journal of Chemical Physics, 2010, 133, 164105.	3.0	15
54	Modified single sweep method for reconstructing free-energy landscapes. Molecular Simulation, 2009, 35, 1116-1129.	2.0	13

GIOVANNI CICCOTTI

#	Article	IF	CITATIONS
55	Projection of diffusions on submanifolds: Application to mean force computation. Communications on Pure and Applied Mathematics, 2008, 61, 371-408.	3.1	69
56	String method in collective variables: Minimum free energy paths and isocommittor surfaces. Journal of Chemical Physics, 2006, 125, 024106.	3.0	600
57	Blue Moon Sampling, Vectorial Reaction Coordinates, and Unbiased Constrained Dynamics. ChemPhysChem, 2005, 6, 1809-1814.	2.1	151
58	On the Equivalence of Atomic and Molecular Pressure. Journal of Physical Chemistry B, 2004, 108, 6866-6869.	2.6	16
59	Solubility of KF in water by molecular dynamics using the Kirkwood integration method. Journal of Chemical Physics, 2002, 117, 4947-4953.	3.0	87
60	Non-Hamiltonian molecular dynamics: Generalizing Hamiltonian phase space principles to non-Hamiltonian systems. Journal of Chemical Physics, 2001, 115, 1678-1702.	3.0	273
61	Mixed quantum-classical surface hopping dynamics. Journal of Chemical Physics, 2000, 112, 6543-6553.	3.0	141
62	Molecular Dynamics Simulations of Nonequilibrium Phenomena and Rare Dynamical Events. , 1991, , 119-137.		17
63	Molecular dynamics simulation of rigid molecules. Computer Physics Reports, 1986, 4, 346-392.	2.2	424
64	Introduction of Andersen's demon in the molecular dynamics of systems with constraints. Journal of Chemical Physics, 1983, 78, 7368-7374.	3.0	109
65	The rotation-translation coupling in diatomic molecules. Molecular Physics, 1981, 44, 979-996.	1.7	84
66	?Thought-experiments? by molecular dynamics. Journal of Statistical Physics, 1979, 21, 1-22.	1.2	192
67	Numerical integration of the cartesian equations of motion of a system with constraints: molecular dynamics of n-alkanes. Journal of Computational Physics, 1977, 23, 327-341.	3.8	18,418
68	Direct Computation of Dynamical Response by Molecular Dynamics: The Mobility of a Charged Lennard-Jones Particle. Physical Review Letters, 1975, 35, 789-792.	7.8	118