Tapio Ala-Nissila

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

348 papers	8,600 citations	46 h-index	75 g-index
369 ext. papers	9,549 ext. citations	3.5 avg, IF	6.22 L-index

#	Paper	IF	Citations
348	Structure and Pore Size Distribution in Nanoporous Carbon. *Chemistry of Materials*, **2022**, 34, 617-628	9.6	3
347	Adaptive and optimized COVID-19 vaccination strategies across geographical regions and age groups.. *PLoS Computational Biology*, **2022**, 18, e1009974	5	2
346	Modified PoissonBoltzmann theory for polyelectrolytes in monovalent salt solutions with finite-size ions. *Journal of Chemical Physics*, **2022**, 156, 214906	3.9	1
345	Heat transport across graphene/hexagonal-BN tilted grain boundaries from phase-field crystal model and molecular dynamics simulations. *Journal of Applied Physics*, **2021**, 130, 235102	2.5	1
344	Pulling a folded polymer through a nanopore. *Journal of Physics Condensed Matter*, **2021**, 33, 015101	1.8	2
343	Photoluminescence line shapes for color centers in silicon carbide from density functional theory calculations. *Physical Review B*, **2021**, 103,	3.3	7
342	Modeling buckling and topological defects in stacked two-dimensional layers of graphene and hexagonal boron nitride. *Physical Review Materials*, **2021**, 5,	3.2	2
341	Many-body Majorana-like zero modes without gauge symmetry breaking. *Physical Review Research*, **2021**, 3,	3.9	1
340	Self-assembly in soft matter with multiple length scales. *Physical Review Research*, **2021**, 3,	3.9	1
339	Spectral decomposition of thermal conductivity: Comparing velocity decomposition methods in homogeneous molecular dynamics simulations. *Physical Review B*, **2021**, 103,	3.3	9
338	Silica-silicon composites for near-infrared reflection: A comprehensive computational and experimental study. *Ceramics International*, **2021**, 47, 16833-16840	5.1	2
337	Validity of Born-Markov master equations for single- and two-qubit systems. *Physical Review B*, **2021**, 103,	3.3	2
336	Multicore Assemblies from Three-Component Linear Homo-Copolymer Systems: A Coarse-Grained Modeling Study. *Polymers*, **2021**, 13,	4.5	3
335	Anomalous thermal conductivity enhancement in low dimensional resonant nanostructures due to imperfections. *Nanoscale*, **2021**, 13, 10010-10015	7.7	4
334	Electromagnetic response of nanoparticles with a metallic core and a semiconductor shell. *Journal of Physics Communications*, **2021**, 5, 015002	1.2	0
333	State leakage during fast decay and control of a superconducting transmon qubit. *Npj Quantum Information*, **2021**, 7,	8.6	2
332	Self-assembly of binary solutions to complex structures. *Journal of Chemical Physics*, **2021**, 155, 014904	3.9	

331	Machine learning force fields based on local parametrization of dispersion interactions: Application to the phase diagram of C60. *Physical Review B*, **2021**, 104,	3.3	7
330	Neuroevolution machine learning potentials: Combining high accuracy and low cost in atomistic simulations and application to heat transport. *Physical Review B*, **2021**, 104,	3.3	6
329	Formation of Near-IR Excitons in Low-Dimensional CuSbS2. *Journal of Physical Chemistry C*, **2021**, 125, 21087-21092	3.8	1
328	Interpretation of apparent thermal conductivity in finite systems from equilibrium molecular dynamics simulations. *Physical Review B*, **2021**, 103,	3.3	3
327	Correlation-Picture Approach to Open-Quantum-System Dynamics. *Physical Review X*, **2020**, 10,	9.1	7
326	Pulling a DNA molecule through a nanopore embedded in an anionic membrane: tension propagation coupled to electrostatics. *Journal of Physics Condensed Matter*, **2020**, 32, 385101	1.8	1
325	Thermal conductivity reduction in carbon nanotube by fullerene encapsulation: A molecular dynamics study. *Carbon*, **2020**, 161, 800-808	10.4	9
324	Near-IR Plasmons in Micro and Nanoparticles with a Semiconductor Core. *Photonics*, **2020**, 7, 10	2.2	3
323	Unreliability of mutual information as a measure for variations in total correlations. *Physical Review A*, **2020**, 101,	2.6	2
322	Kinetic roughening of the urban skyline. *Physical Review E*, **2020**, 101, 050301	2.4	1
321	A minimal Tersoff potential for diamond silicon with improved descriptions of elastic and phonon transport properties. *Journal of Physics Condensed Matter*, **2020**, 32, 135901	1.8	3
320	Directing near-infrared photon transport with core@shell particles. *AIP Advances*, **2020**, 10, 095128	1.5	2
319	Propulsion and controlled steering of magnetic nanohelices. *Soft Matter*, **2019**, 15, 1684-1691	3.6	9
318	Homogeneous nonequilibrium molecular dynamics method for heat transport and spectral decomposition with many-body potentials. *Physical Review B*, **2019**, 99,	3.3	29
317	Thermal transport in MoS2 from molecular dynamics using different empirical potentials. *Physical Review B*, **2019**, 99,	3.3	31
316	Contributions to single-shot energy exchanges in open quantum systems. *Physical Review E*, **2019**, 99, 062131	2.4	2
315	Reservoir engineering using quantum optimal control for qubit reset. *New Journal of Physics*, **2019**, 21, 093054	2.9	8
314	Phase-field crystal model for heterostructures. *Physical Review B*, **2019**, 100,	3.3	5

313	System-environment correlations in qubit initialization and control. *Physical Review Research*, **2019**, 1,	3.9	13
312	Influence of thermostatting on nonequilibrium molecular dynamics simulations of heat conduction in solids. *Journal of Chemical Physics*, **2019**, 151, 234105	3.9	56
311	Comment on 'Nonlocal statistical field theory of dipolar particles in electrolyte solutions'. *Journal of Physics Condensed Matter*, **2019**, 31, 078001	1.8	
310	Theoretical Modeling of Polymer Translocation: From the Electrohydrodynamics of Short Polymers to the Fluctuating Long Polymers. *Polymers*, **2019**, 11,	4.5	8
309	Thermoplasmonic Response of Semiconductor Nanoparticles: A Comparison with Metals. *Advanced Theory and Simulations*, **2019**, 2, 1800100	3.5	7
308	Flux-tunable heat sink for quantum electric circuits. *Scientific Reports*, **2018**, 8, 6325	4.9	21
307	Correct interpretation of nanofluid convective heat transfer. *International Journal of Thermal Sciences*, **2018**, 129, 504-531	4.1	44
306	Quantum work in the Bohmian framework. *Physical Review A*, **2018**, 97,	2.6	13
305	Evolution of Temporal Coherence in Confined Exciton-Polariton Condensates. *Physical Review Letters*, **2018**, 120, 017401	7.4	17
304	Equivalence of the equilibrium and the nonequilibrium molecular dynamics methods for thermal conductivity calculations: From bulk to nanowire silicon. *Physical Review B*, **2018**, 97,	3.3	38
303	Influence of particle properties on convective heat transfer of nanofluids. *International Journal of Thermal Sciences*, **2018**, 124, 187-195	4.1	39
302	Grain extraction and microstructural analysis method for two-dimensional poly and quasicrystalline solids. *Physical Review Materials*, **2018**, 2,	3.2	3
301	Dielectric Trapping of Biopolymers Translocating through Insulating Membranes. *Polymers*, **2018**, 10,	4.5	3
300	Plasmonically Enhanced Spectrally-Sensitive Coatings for Gradient Heat Flux Sensors **2018**,		1
299	Thermal transport properties of single-layer black phosphorus from extensive molecular dynamics simulations. *Modelling and Simulation in Materials Science and Engineering*, **2018**, 26, 085001	2	18
298	pH-mediated regulation of polymer transport through SiN pores. *Europhysics Letters*, **2018**, 123, 38003	1.6	3
297	Heat transport in pristine and polycrystalline single-layer hexagonal boron nitride. *Physical Chemistry Chemical Physics*, **2018**, 20, 24602-24612	3.6	18
296	Excitation energy transport with noise and disorder in a model of the selectivity filter of an ion channel. *Journal of Physics Condensed Matter*, **2018**, 30, 415101	1.8	4

295	Theory of pore-driven and end-pulled polymer translocation dynamics through a nanopore: an overview. *Journal of Physics Condensed Matter*, **2018**, 30, 274002	1.8	17
294	Controlled propulsion and separation of helical particles at the nanoscale. *Soft Matter*, **2017**, 13, 2148-2154	3.8	5
293	Quantifying non-Markovianity due to driving and a finite-size environment in an open quantum system. *Physical Review A*, **2017**, 95,	2.6	11
292	Shear viscosity in hard-sphere and adhesive colloidal suspensions with reverse non-equilibrium molecular dynamics. *Soft Matter*, **2017**, 13, 3909-3917	3.6	7
291	Thermal properties and convective heat transfer of phase changing paraffin nanofluids. *International Journal of Thermal Sciences*, **2017**, 117, 163-171	4.1	28
290	Controlling polymer capture and translocation by electrostatic polymer-pore interactions. *Journal of Chemical Physics*, **2017**, 147, 114904	3.9	10
289	Multivalent cation induced attraction of anionic polymers by like-charged pores. *Journal of Chemical Physics*, **2017**, 147, 144901	3.9	10
288	Kapitza thermal resistance across individual grain boundaries in graphene. *Carbon*, **2017**, 125, 384-390	10.4	33
287	Atomic Scale Formation Mechanism of Edge Dislocation Relieving Lattice Strain in a GeSi overlayer on Si(001). *Scientific Reports*, **2017**, 7, 11966	4.9	11
286	Bimodal Grain-Size Scaling of Thermal Transport in Polycrystalline Graphene from Large-Scale Molecular Dynamics Simulations. *Nano Letters*, **2017**, 17, 5919-5924	11.5	21
285	Efficient protocol for qubit initialization with a tunable environment. *Npj Quantum Information*, **2017**, 3,	8.6	27
284	Energetics and structure of grain boundary triple junctions in graphene. *Scientific Reports*, **2017**, 7, 4754	4.9	14
283	Plasmonically Enhanced Reflectance of Heat Radiation from Low-Bandgap Semiconductor Microinclusions. *Scientific Reports*, **2017**, 7, 5696	4.9	7
282	Driven translocation of a semi-flexible polymer through a nanopore. *Scientific Reports*, **2017**, 7, 7423	4.9	27
281	Striped, honeycomb, and twisted moir patterns in surface adsorption systems with highly degenerate commensurate ground states. *Physical Review B*, **2017**, 96,	3.3	3
280	Perfect quantum excitation energy transport via single edge perturbation in a complete network. *European Physical Journal B*, **2017**, 90, 1	1.2	1
279	Thermal conductivity decomposition in two-dimensional materials: Application to graphene. *Physical Review B*, **2017**, 95,	3.3	78
278	Dynamics of end-pulled polymer translocation through a nanopore. *Europhysics Letters*, **2017**, 120, 38004	1.6	10

277	Multiscale modeling of polycrystalline graphene: A comparison of structure and defect energies of realistic samples from phase field crystal models. *Physical Review B*, **2016**, 94,	3.3	56
276	Heat flux and information backflow in cold environments. *Physical Review A*, **2016**, 94,	2.6	17
275	Quantum jump model for a system with a finite-size environment. *Physical Review E*, **2016**, 93, 062106	2.4	18
274	Consistent Hydrodynamics for Phase Field Crystals. *Physical Review Letters*, **2016**, 116, 024303	7.4	27
273	Shape and scale dependent diffusivity of colloidal nanoclusters and aggregates. *European Physical Journal: Special Topics*, **2016**, 225, 729-739	2.3	1
272	Thermodynamics of information exchange between two coupled quantum dots. *Physical Review E*, **2016**, 93, 032147	2.4	12
271	Long-wavelength properties of phase-field-crystal models with second-order dynamics. *Physical Review E*, **2016**, 93, 053003	2.4	5
270	Comparison between quantum jumps and master equation in the presence of a finite environment. *Physical Review E*, **2016**, 94, 032138	2.4	3
269	Thermodynamics and efficiency of an autonomous on-chip Maxwell's demon. *Scientific Reports*, **2016**, 6, 21126	4.9	24
268	Shape effects on surface plasmons in spherical, cubic, and rod-shaped silver nanoparticles. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	15
267	On the applicability of discrete dipole approximation for plasmonic particles. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2016**, 169, 23-35	2.1	16
266	Plasmonic properties and energy flow in rounded hexahedral and octahedral nanoparticles. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, 2626	1.7	8
265	Electrostatics of polymer translocation events in electrolyte solutions. *Journal of Chemical Physics*, **2016**, 145, 014902	3.9	2
264	Minimum energy path for the nucleation of misfit dislocations in Ge/Si(0 0 1) heteroepitaxy. *Modelling and Simulation in Materials Science and Engineering*, **2016**, 24, 035007	2	5
263	Electrostatic energy barriers from dielectric membranes upon approach of translocating DNA molecules. *Journal of Chemical Physics*, **2016**, 144, 084902	3.9	5
262	Efficient dynamical correction of the transition state theory rate estimate for a flat energy barrier. *Journal of Chemical Physics*, **2016**, 145, 094901	3.9	5
261	Honeycomb and triangular domain wall networks in heteroepitaxial systems. *Journal of Chemical Physics*, **2016**, 144, 174703	3.9	12
260	Calorimetric measurement of work for a driven harmonic oscillator. *Physical Review E*, **2016**, 94, 062122	2.4	3

259	Commensurate-incommensurate transition and domain wall dynamics of adsorbed overlayers on a honeycomb substrate. *Europhysics Letters*, **2016**, 116, 56002	1.6	3
258	Novel microstructured polyol□olystyrene composites for seasonal heat storage. *Applied Energy*, **2016**, 172, 96-106	10.7	38
257	Global transition path search for dislocation formation in Ge on Si(001). *Computer Physics Communications*, **2016**, 205, 13-21	4.2	203
256	Ionic current inversion in pressure-driven polymer translocation through nanopores. *Physical Review Letters*, **2015**, 114, 088303	7.4	16
255	Virtual enclosure model for thermal radiation extinction inside porous materials with closed cell structure. *International Journal of Heat and Mass Transfer*, **2015**, 87, 79-91	4.9	3
254	Improved Tight-Binding Charge Transfer Model and Calculations of Energetics of a Step on the Rutile TiO2(110) Surface. *Journal of Physical Chemistry C*, **2015**, 119, 10391-10399	3.8	3
253	Transition state theory approach to polymer escape from a one dimensional potential well. *Journal of Chemical Physics*, **2015**, 142, 224906	3.9	6
252	Computation of shear viscosity of colloidal suspensions by SRD-MD. *Journal of Chemical Physics*, **2015**, 142, 144101	3.9	7
251	Atomic mechanisms of strain relaxation in heteroepitaxial Cu/Ni(001) system. *Russian Microelectronics*, **2015**, 44, 410-413	0.5	
250	Turbulent heat transfer characteristics in a circular tube and thermal properties of n-decane-in-water nanoemulsion fluids and micelles-in-water fluids. *International Journal of Heat and Mass Transfer*, **2015**, 81, 246-251	4.9	28
249	Quantum treatment of the Bose-Einstein condensation in nonequilibrium systems. *Physical Review B*, **2015**, 92,	3.3	5
248	On-Chip Maxwell's Demon as an Information-Powered Refrigerator. *Physical Review Letters*, **2015**, 115, 260602	7.4	177
247	Entropy production in a non-Markovian environment. *Physical Review E*, **2015**, 92, 012107	2.4	17
246	Theory of polymer translocation through a flickering nanopore under an alternating driving force. *Journal of Chemical Physics*, **2015**, 143, 074905	3.9	17
245	Preparation of paraffin and fatty acid phase changing nanoemulsions for heat transfer. *Thermochimica Acta*, **2015**, 601, 33-38	2.9	32
244	Fluctuations of work in nearly adiabatically driven open quantum systems. *Physical Review E*, **2015**, 91, 022126	2.4	17
243	Polymer translocation: the first two decades and the recent diversification. *Soft Matter*, **2014**, 10, 9016-37	3.6	132
242	Controlling polymer translocation and ion transport via charge correlations. *Langmuir*, **2014**, 30, 12907-15	4	24

241	Nanoparticles of TiO 2 and VO 2 in dielectric media: Conditions for low optical scattering, and comparison between effective medium and four-flux theories. *Solar Energy Materials and Solar Cells* , **2014**, 130, 132-137	6.4	54
240	Polymer escape from a confining potential. *Journal of Chemical Physics*, **2014**, 140, 054907	3.9	2
239	Stretching of DNA confined in nanochannels with charged walls. *Biomicrofluidics*, **2014**, 8, 064121	3.2	19
238	Iso-flux tension propagation theory of driven polymer translocation: the role of initial configurations. *Journal of Chemical Physics*, **2014**, 141, 214907	3.9	33
237	Influence of high-refractive-index oxide cores on optical properties of metal nanoshells. *Journal of the Optical Society of America B: Optical Physics*, **2014**, 31, 494	1.7	12
236	Electrostatic correlations on the ionic selectivity of cylindrical membrane nanopores. *Journal of Chemical Physics*, **2014**, 140, 064701	3.9	20
235	Moments of work in the two-point measurement protocol for a driven open quantum system. *Physical Review B*, **2014**, 90,	3.3	21
234	Phase-field-crystal models and mechanical equilibrium. *Physical Review E*, **2014**, 89, 032411	2.4	36
233	Biopolymer filtration in corrugated nanochannels. *Physical Review Letters*, **2014**, 112, 118301	7.4	17
232	Influence of particle size and shape on turbulent heat transfer characteristics and pressure losses in water-based nanofluids. *International Journal of Heat and Mass Transfer*, **2013**, 61, 439-448	4.9	57
231	Distribution of entropy production in a single-electron box. *Nature Physics*, **2013**, 9, 644-648	16.2	86
230	Conformations of DNA in Triangular Nanochannels. *Macromolecules*, **2013**, 46, 4198-4206	5.5	21
229	Aggregation in colloidal suspensions: evaluation of the role of hydrodynamic interactions by means of numerical simulations. *Journal of Physical Chemistry B*, **2013**, 117, 14509-17	3.4	29
228	Atomistic simulations of friction at an ice-ice interface. *Friction*, **2013**, 1, 242-251	5.6	9
227	Modeling self-organization of thin strained metallic overlayers from atomic to micron scales. *Physical Review B*, **2013**, 88,	3.3	12
226	Influence of pore friction on the universal aspects of driven polymer translocation. *Europhysics Letters*, **2013**, 103, 38001	1.6	40
225	The Hydrodynamic Radius of Particles in the Hybrid Lattice Boltzmann--Molecular Dynamics Method. *Multiscale Modeling and Simulation*, **2013**, 11, 213-243	1.8	23
224	One- and two-particle dynamics in microfluidic T-junctions. *Physical Review E*, **2013**, 87, 050302	2.4	6

223	Bcc crystal-fluid interfacial free energy in Yukawa systems. *Journal of Chemical Physics*, **2013**, 138, 044705	3.9	21
222	Hydrodynamic effects on confined polymers. *Soft Matter*, **2013**, 9, 3478	3.6	13
221	Microscopic formulation of nonlocal electrostatics in polar liquids embedding polarizable ions. *Physical Review E*, **2013**, 87, 063201	2.4	36
220	Multiscale modeling of submonolayer growth for Fe/Mo (110). *European Physical Journal B*, **2013**, 86, 1	1.2	2
219	Influence of high-refractive-index oxide coating on optical properties of metal nanoparticles. *Journal of the Optical Society of America B: Optical Physics*, **2013**, 30, 338	1.7	18
218	Anomalous fast dynamics of adsorbate overlayers near an incommensurate structural transition. *Physical Review Letters*, **2013**, 111, 126102	7.4	5
217	Alteration of gas phase ion polarizabilities upon hydration in high dielectric liquids. *Journal of Chemical Physics*, **2013**, 139, 044907	3.9	13
216	Dissipated work and fluctuation relations for non-equilibrium single-electron transitions. *Journal of Statistical Mechanics: Theory and Experiment*, **2013**, 2013, P02033	1.9	10
215	A molecular dynamics implementation of the 3D Mercedes-Benz water model. *Computer Physics Communications*, **2012**, 183, 363-369	4.2	8
214	Electrostatic correlations in inhomogeneous charged fluids beyond loop expansion. *Journal of Chemical Physics*, **2012**, 137, 104902	3.9	32
213	Molecular Dynamics Study of a MARTINI Coarse-Grained Polystyrene Brush in Good Solvent: Structure and Dynamics. *Macromolecules*, **2012**, 45, 563-571	5.5	28
212	Influence of nanoparticle size, loading, and shape on the mechanical properties of polymer nanocomposites. *Journal of Chemical Physics*, **2012**, 137, 214901	3.9	56
211	Hydrodynamic forces on steady and oscillating porous particles. *Journal of Fluid Mechanics*, **2012**, 709, 123-148	3.7	13
210	Unifying model of driven polymer translocation. *Physical Review E*, **2012**, 85, 051803	2.4	88
209	Polymer translocation under time-dependent driving forces: resonant activation induced by attractive polymer-pore interactions. *Journal of Chemical Physics*, **2012**, 136, 205104	3.9	31
208	Correlations between mechanical, structural, and dynamical properties of polymer nanocomposites. *Physical Review E*, **2012**, 85, 041803	2.4	31
207	Patterning of heteroepitaxial overlayers from nano to micron scales. *Physical Review Letters*, **2012**, 108, 226102	7.4	45
206	Thermohydrodynamics of boiling in a van der Waals fluid. *Physical Review E*, **2012**, 85, 026320	2.4	25

205	Influence of non-universal effects on dynamical scaling in driven polymer translocation. *Journal of Chemical Physics*, **2012**, 137, 085101	3.9	59
204	Dipolar depletion effect on the differential capacitance of carbon-based materials. *Europhysics Letters*, **2012**, 98, 60003	1.6	11
203	Tracer diffusion in colloidal suspensions under dilute and crowded conditions with hydrodynamic interactions. *Journal of Chemical Physics*, **2012**, 137, 014503	3.9	19
202	Excluded volume effects in macromolecular forces and ion-interface interactions. *Journal of Chemical Physics*, **2012**, 136, 074901	3.9	9
201	Fluctuating lattice-Boltzmann model for complex fluids. *Journal of Chemical Physics*, **2011**, 134, 064902	3.9	38
200	A MARTINI Coarse-Grained Model of a Thermoset Polyester Coating. *Macromolecules*, **2011**, 44, 6198-6208	3.9	51
199	Coarse-graining polymers with the MARTINI force-field: polystyrene as a benchmark case. *Soft Matter*, **2011**, 7, 698-708	3.6	186
198	Glassy phases and driven response of the phase-field-crystal model with random pinning. *Physical Review E*, **2011**, 84, 031102	2.4	10
197	Diffusion in periodic potentials with path integral hyperdynamics. *Physical Review E*, **2011**, 84, 026703	2.4	4
196	Polymer translocation induced by a bad solvent. *Physical Review E*, **2011**, 83, 011914	2.4	18
195	Ion size effects upon ionic exclusion from dielectric interfaces and slit nanopores. *Journal of Statistical Mechanics: Theory and Experiment*, **2011**, 2011, P05033	1.9	20
194	Hydrophobicity within the three-dimensional Mercedes-Benz model: potential of mean force. *Journal of Chemical Physics*, **2011**, 134, 065106	3.9	42
193	Stress release mechanisms for Cu on Pd(111) in the submonolayer and monolayer regimes. *Physical Review B*, **2010**, 81,	3.3	12
192	Dynamical transitions and sliding friction of the phase-field-crystal model with pinning. *Physical Review E*, **2010**, 81, 011121	2.4	36
191	Polymer escape from a metastable Kramers potential: path integral hyperdynamics study. *Journal of Chemical Physics*, **2010**, 133, 184902	3.9	7
190	Cutting ice: nanowire regelation. *Physical Review Letters*, **2010**, 105, 086102	7.4	18
189	Extended phase diagram of the three-dimensional phase field crystal model. *Journal of Physics Condensed Matter*, **2010**, 22, 205402	1.8	54
188	Eighth-order phase-field-crystal model for two-dimensional crystallization. *Physical Review E*, **2010**, 82, 061602	2.4	25

187	The hydrophobic effect and its role in cold denaturation. *Cryobiology*, **2010**, 60, 91-9	2.7	131
186	Reply to the comment by Graziano on "The hydrophobic effect and its role in cold denaturation" *Cryobiology*, **2010**, 60, 356-357	2.7	1
185	Nonlinear response and dynamical transitions in a phase-field crystal model for adsorbed overlayers. *Journal of Physics: Conference Series*, **2010**, 246, 012024	0.3	1
184	Polymer translocation out of confined environments. *Physical Review E*, **2009**, 80, 021907	2.4	24
183	Nonlinear driven response of a phase-field crystal in a periodic pinning potential. *Physical Review E*, **2009**, 79, 011606	2.4	25
182	Polymer translocation in a double-force arrangement. *European Physical Journal E*, **2009**, 28, 385-93	1.5	17
181	Scaling exponents of forced polymer translocation through a nanopore. *European Physical Journal E* , **2009**, 29, 423-9	1.5	79
180	Electronic properties of H on vicinal Pt surfaces: First-principles study. *Physical Review B*, **2009**, 80,	3.3	12
179	Atomistic studies of strain relaxation in heteroepitaxial systems. *Journal of Physics Condensed Matter*, **2009**, 21, 084211	1.8	4
178	Driven polymer translocation through nanopores: Slow-vs.-fast dynamics. *Europhysics Letters*, **2009**, 88, 68006	1.6	108
177	Three-dimensional "Mercedes-Benz" model for water. *Journal of Chemical Physics*, **2009**, 131, 054505	3.9	52
176	Thermodynamics of bcc metals in phase-field-crystal models. *Physical Review E*, **2009**, 80, 031602	2.4	151
175	Diffusion-controlled anisotropic growth of stable and metastable crystal polymorphs in the phase-field crystal model. *Physical Review Letters*, **2009**, 103, 035702	7.4	85
174	Microscopic mechanism for cold denaturation. *Physical Review Letters*, **2008**, 100, 118101	7.4	103
173	Translocation dynamics with attractive nanopore-polymer interactions. *Physical Review E*, **2008**, 78, 061918	2.4	42
172	Influence of disorder strength on phase-field models of interfacial growth. *Physical Review E*, **2008**, 78, 031603	2.4	7
171	Sequence dependence of DNA translocation through a nanopore. *Physical Review Letters*, **2008**, 100, 058101	7.4	130
170	Dynamics of DNA translocation through an attractive nanopore. *Physical Review E*, **2008**, 78, 061911	2.4	34

169	Thermal fluctuations and phase diagrams of the phase-field crystal model with pinning. *Physical Review E*, **2008**, 78, 031109	2.4	20
168	Dynamical scaling exponents for polymer translocation through a nanopore. *Physical Review E*, **2008**, 78, 050901	2.4	89
167	Two approaches to dislocation nucleation in the supported heteroepitaxial equilibrium islanding phenomenon. *Journal of Physics: Conference Series*, **2008**, 100, 072043	0.3	
166	Phase diagram of pinned lattices in the phase field crystal model. *Journal of Physics: Conference Series*, **2008**, 100, 072001	0.3	8
165	Optimal conditions for submonolayer nanoisland growth in ion beam assisted deposition. *Journal of Physics: Conference Series*, **2008**, 100, 072005	0.3	
164	Equilibrium shape and size of supported heteroepitaxial nanoislands. *European Physical Journal B*, **2008**, 66, 175-183	1.2	3
163	Optimal conditions for submonolayer nanoisland growth in ion beam assisted deposition. *Surface Science*, **2007**, 601, 5628-5634	1.8	
162	Reaction kinetic model of height selection in heteroepitaxial growth of quantum dots. *European Physical Journal B*, **2007**, 58, 405-409	1.2	3
161	Interplay between steps and nonequilibrium effects in surface diffusion for a lattice-gas model of OW(110). *Journal of Chemical Physics*, **2007**, 126, 114705	3.9	13
160	Heteropolymer translocation through nanopores. *Journal of Chemical Physics*, **2007**, 126, 145101	3.9	56
159	Polymer scaling and dynamics in steady-state sedimentation at infinite Péclet number. *Physical Review E*, **2007**, 76, 051802	2.4	3
158	Polymer translocation through a nanopore under a pulling force. *Physical Review E*, **2007**, 75, 061912	2.4	65
157	Influence of polymer-pore interactions on translocation. *Physical Review Letters*, **2007**, 99, 148102	7.4	154
156	Interface equations for capillary rise in random environment. *Physical Review E*, **2006**, 74, 041601	2.4	3
155	Phase diagram and commensurate-incommensurate transitions in the phase field crystal model with an external pinning potential. *Physical Review E*, **2006**, 74, 021104	2.4	51
154	Polymer translocation through a nanopore: a two-dimensional Monte Carlo study. *Journal of Chemical Physics*, **2006**, 124, 034714	3.9	102
153	Langevin dynamics simulations of polymer translocation through nanopores. *Journal of Chemical Physics*, **2006**, 125, 124901	3.9	121
152	Theoretical approaches to collective diffusion on stepped surfaces. *Journal of Statistical Mechanics: Theory and Experiment*, **2006**, 2006, P10003-P10003	1.9	15

151	Diffusion of small two-dimensional Cu islands on Cu(111) studied with a kinetic Monte Carlo method. *Physical Review B*, **2006**, 73,	3.3	53
150	Polymer translocation through a nanopore under an applied external field. *Journal of Chemical Physics*, **2006**, 124, 114704	3.9	99
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