Tapio Ala-Nissila

List of Publications by Citations

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	Collective and single particle diffusion on surfaces. *Advances in Physics*, **2002**, 51, 949-1078	18.4	455
347	Global transition path search for dislocation formation in Ge on Si(001). *Computer Physics Communications*, **2016**, 205, 13-21	4.2	203
346	Coarse-graining polymers with the MARTINI force-field: polystyrene as a benchmark case. *Soft Matter*, **2011**, 7, 698-708	3.6	186
345	On-Chip Maxwell's Demon as an Information-Powered Refrigerator. *Physical Review Letters*, **2015**, 115, 260602	7.4	177
344	Influence of polymer-pore interactions on translocation. *Physical Review Letters*, **2007**, 99, 148102	7.4	154
343	Thermodynamics of bcc metals in phase-field-crystal models. *Physical Review E*, **2009**, 80, 031602	2.4	151
342	Theory of classical surface diffusion. *Progress in Surface Science*, **1992**, 39, 227-323	6.6	140
341	Polymer translocation: the first two decades and the recent diversification. *Soft Matter*, **2014**, 10, 9016-3276	3.6	132
340	The hydrophobic effect and its role in cold denaturation. *Cryobiology*, **2010**, 60, 91-9	2.7	131
339	Sequence dependence of DNA translocation through a nanopore. *Physical Review Letters*, **2008**, 100, 058101	7.4	130
338	Langevin dynamics simulations of polymer translocation through nanopores. *Journal of Chemical Physics*, **2006**, 125, 124901	3.9	121
337	Driven polymer translocation through nanopores: Slow-vs.-fast dynamics. *Europhysics Letters*, **2009**, 88, 68006	1.6	108
336	Microscopic mechanism for cold denaturation. *Physical Review Letters*, **2008**, 100, 118101	7.4	103
335	Polymer translocation through a nanopore: a two-dimensional Monte Carlo study. *Journal of Chemical Physics*, **2006**, 124, 034714	3.9	102
334	Polymer translocation through a nanopore under an applied external field. *Journal of Chemical Physics*, **2006**, 124, 114704	3.9	99
333	Kinetic Roughening in Slow Combustion of Paper. *Physical Review Letters*, **1997**, 79, 1515-1518	7.4	94
332	Scaling exponents for kinetic roughening in higher dimensions. *Journal of Statistical Physics*, **1993**, 72, 207-225	1.5	93

331	Energetics and vibrational states for hydrogen on Pt(111). *Physical Review Letters*, **2002**, 88, 136101	7.4	90
330	Dynamical scaling exponents for polymer translocation through a nanopore. *Physical Review E*, **2008**, 78, 050901	2.4	89
329	Unifying model of driven polymer translocation. *Physical Review E*, **2012**, 85, 051803	2.4	88
328	Distribution of entropy production in a single-electron box. *Nature Physics*, **2013**, 9, 644-648	16.2	86
327	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
326	Scaling exponents of forced polymer translocation through a nanopore. *European Physical Journal E* , **2009**, 29, 423-9	1.5	79
325	Physical tests for random numbers in simulations. *Physical Review Letters*, **1994**, 73, 2513-2516	7.4	79
324	Thermal conductivity decomposition in two-dimensional materials: Application to graphene. *Physical Review B*, **2017**, 95,	3.3	78
323	Effect of kinks and concerted diffusion mechanisms on mass transport and growth on stepped metal surfaces. *Surface Science*, **1997**, 387, 167-182	1.8	77
322	Island Diffusion on Metal fcc (100) Surfaces. *Physical Review Letters*, **1999**, 82, 2733-2736	7.4	74
321	Surface growth and crossover behaviour in a restricted solid-on-solid model. *Journal of Physics A*, **1991**, 24, 5569-5586		71
320	Liquid Conservation and Nonlocal Interface Dynamics in Imbibition. *Physical Review Letters*, **1999**, 83, 1628-1631	7.4	66
319	Polymer translocation through a nanopore under a pulling force. *Physical Review E*, **2007**, 75, 061912	2.4	65
318	Influence of non-universal effects on dynamical scaling in driven polymer translocation. *Journal of Chemical Physics*, **2012**, 137, 085101	3.9	59
317	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
316	Kinetic roughening of surfaces: Derivation, solution, and application of linear growth equations. *Physical Review B*, **1996**, 53, 8071-8082	3.3	57
315	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
314	Influence of nanoparticle size, loading, and shape on the mechanical properties of polymer nanocomposites. *Journal of Chemical Physics*, **2012**, 137, 214901	3.9	56

313	Heteropolymer translocation through nanopores. *Journal of Chemical Physics*, **2007**, 126, 145101	3.9	56
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	Vibrational states of a H monolayer on the Pt(111) surface. *Physical Review B*, **2003**, 68,	3.3	55
310	Kinetic roughening in slow combustion of paper. *Physical Review E*, **2001**, 64, 036101	2.4	55
309	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
308	Extended phase diagram of the three-dimensional phase field crystal model. *Journal of Physics Condensed Matter*, **2010**, 22, 205402	1.8	54
307	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
306	Three-dimensional "Mercedes-Benz" model for water. *Journal of Chemical Physics*, **2009**, 131, 054505	3.9	52
305	A MARTINI Coarse-Grained Model of a Thermoset Polyester Coating. *Macromolecules*, **2011**, 44, 6198-6208	5.5	51
304	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
303	Physical models as tests of randomness. *Physical Review E*, **1995**, 52, 3205-3214	2.4	51
302	Patterning of heteroepitaxial overlayers from nano to micron scales. *Physical Review Letters*, **2012**, 108, 226102	7.4	45
301	Correct interpretation of nanofluid convective heat transfer. *International Journal of Thermal Sciences*, **2018**, 129, 504-531	4.1	44
300	Energetics and many-particle mechanisms of two-dimensional cluster diffusion on Cu(100) surfaces. *Physical Review B*, **2000**, 62, 1611-1614	3.3	44
299	Diffusive spreading of chainlike molecules on surfaces. *Physical Review Letters*, **1996**, 76, 4003-4006	7.4	43
298	A comparative study of some pseudorandom number generators. *Computer Physics Communications*, **1995**, 86, 209-226	4.2	43
297	Hydrophobicity within the three-dimensional Mercedes-Benz model: potential of mean force. *Journal of Chemical Physics*, **2011**, 134, 065106	3.9	42
296	Translocation dynamics with attractive nanopore-polymer interactions. *Physical Review E*, **2008**, 78, 061918	2.4	42

295	Scaling and noise in slow combustion of paper. *Physical Review Letters*, **2000**, 84, 1946-9	7.4	41
294	Adatom dynamics and diffusion in a model of O/W(110). *Physical Review B*, **1998**, 57, 1896-1907	3.3	41
293	Influence of pore friction on the universal aspects of driven polymer translocation. *Europhysics Letters*, **2013**, 103, 38001	1.6	40
292	Influence of hydrodynamics on many-particle diffusion in 2D colloidal suspensions. *European Physical Journal E*, **2004**, 13, 267-75	1.5	40
291	Influence of particle properties on convective heat transfer of nanofluids. *International Journal of Thermal Sciences*, **2018**, 124, 187-195	4.1	39
290	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
289	Fluctuating lattice-Boltzmann model for complex fluids. *Journal of Chemical Physics*, **2011**, 134, 064902	3.9	38
288	Non-Arrhenius Behavior of Surface Diffusion near a Phase Transition Boundary. *Physical Review Letters*, **1997**, 79, 257-260	7.4	38
287	Dynamics and scaling of two-dimensional polymers in a dilute solution. *Physical Review E*, **2003**, 68, 050102	2.4	38
286	Fiber deposition models in two and three spatial dimensions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2000**, 165, 209-229	5.1	38
285	Memory expansion for diffusion coefficients. *Physical Review B*, **1998**, 58, 2170-2178	3.3	38
284	Spreading dynamics of polymer microdroplets: A molecular-dynamics study. *Physical Review E*, **1994**, 49, 4228-4236	2.4	38
283	Novel microstructured polyol–polystyrene composites for seasonal heat storage. *Applied Energy*, **2016**, 172, 96-106	10.7	38
282	Phase-field-crystal models and mechanical equilibrium. *Physical Review E*, **2014**, 89, 032411	2.4	36
281	Microscopic formulation of nonlocal electrostatics in polar liquids embedding polarizable ions. *Physical Review E*, **2013**, 87, 063201	2.4	36
280	Dynamical transitions and sliding friction of the phase-field-crystal model with pinning. *Physical Review E*, **2010**, 81, 011121	2.4	36
279	Dynamics of DNA translocation through an attractive nanopore. *Physical Review E*, **2008**, 78, 061911	2.4	34
278	Kapitza thermal resistance across individual grain boundaries in graphene. *Carbon*, **2017**, 125, 384-390	10.4	33

277	Iso-flux tension propagation theory of driven polymer translocation: the role of initial configurations. *Journal of Chemical Physics*, **2014**, 141, 214907	3.9	33
276	Collective effects in settling of spheroids under steady-state sedimentation. *Physical Review Letters* , **2003**, 90, 094502	7.4	33
275	Instability and wavelength selection during step flow growth of metal surfaces vicinal to fcc(001). *Physical Review Letters*, **2001**, 86, 5317-20	7.4	33
274	Preparation of paraffin and fatty acid phase changing nanoemulsions for heat transfer. *Thermochimica Acta*, **2015**, 601, 33-38	2.9	32
273	Electrostatic correlations in inhomogeneous charged fluids beyond loop expansion. *Journal of Chemical Physics*, **2012**, 137, 104902	3.9	32
272	Flame propagation in random media. *Physical Review E*, **1995**, 51, 4232-4236	2.4	32
271	Model of diffusion on deformable lattices. III. Adatom-interaction effects. *Physical Review B*, **1992**, 46, 846-854	3.3	32
270	Comment on "Phase transition in a restricted solid-on-solid surface-growth model in 2+1 dimensions". *Physical Review Letters*, **1990**, 64, 2333	7.4	32
269	Thermal transport in MoS2 from molecular dynamics using different empirical potentials. *Physical Review B*, **2019**, 99,	3.3	31
268	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
267	Correlations between mechanical, structural, and dynamical properties of polymer nanocomposites. *Physical Review E*, **2012**, 85, 041803	2.4	31
266	Energetics and diffusion paths of gallium and arsenic adatoms on flat and stepped GaAs(001) surfaces. *Surface Science*, **1999**, 425, 31-47	1.8	31
265	Diffusion processes and growth on stepped metal surfaces. *Physical Review B*, **1995**, 52, R8715-R8720	3.3	31
264	Role of concerted atomic movements on the diffusion of small islands on fcc(100) metal surfaces. *Physical Review B*, **2001**, 64,	3.3	30
263	Memory effects and coverage dependence of surface diffusion in a model adsorption system. *Physical Review B*, **1999**, 59, 7697-7707	3.3	30
262	Homogeneous nonequilibrium molecular dynamics method for heat transport and spectral decomposition with many-body potentials. *Physical Review B*, **2019**, 99,	3.3	29
261	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
260	Thermal properties and convective heat transfer of phase changing paraffin nanofluids. *International Journal of Thermal Sciences*, **2017**, 117, 163-171	4.1	28

259	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
258	Molecular Dynamics Study of a MARTINI Coarse-Grained Polystyrene Brush in Good Solvent: Structure and Dynamics. *Macromolecules*, **2012**, 45, 563-571	5.5	28
257	Comment on "Upper Critical Dimension of the Kardar-Parisi-Zhang Equation". *Physical Review Letters*, **1998**, 80, 887-887	7.4	28
256	Consistent Hydrodynamics for Phase Field Crystals. *Physical Review Letters*, **2016**, 116, 024303	7.4	27
255	Efficient protocol for qubit initialization with a tunable environment. *Npj Quantum Information*, **2017**, 3,	8.6	27
254	Driven translocation of a semi-flexible polymer through a nanopore. *Scientific Reports*, **2017**, 7, 7423	4.9	27
253	Sedimentation dynamics of spherical particles in confined geometries. *Physical Review E*, **2004**, 69, 066310	2.4	27
252	Kinetics of the order-disorder transition of the two-dimensional anisotropic next-nearest-neighbor Ising model. *Physical Review B*, **1985**, 31, 310-315	3.3	27
251	Eighth-order phase-field-crystal model for two-dimensional crystallization. *Physical Review E*, **2010**, 82, 061602	2.4	25
250	Nonlinear driven response of a phase-field crystal in a periodic pinning potential. *Physical Review E*, **2009**, 79, 011606	2.4	25
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248	A dynamical mean field theory for the study of surface diffusion constants. *Surface Science*, **1997**, 380, L501-L505	1.8	25
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246	Thermodynamics and efficiency of an autonomous on-chip Maxwell's demon. *Scientific Reports*, **2016**, 6, 21126	4.9	24
245	Controlling polymer translocation and ion transport via charge correlations. *Langmuir*, **2014**, 30, 12907-15	4	24
244	Polymer translocation out of confined environments. *Physical Review E*, **2009**, 80, 021907	2.4	24
243	Conserved dynamics and interface roughening in spontaneous imbibition: A phase field model. *European Physical Journal B*, **2000**, 15, 701-714	1.2	24
242	Atomic mechanisms of cluster diffusion on metal fcc(1 0 0) surfaces. *Surface Science*, **2001**, 482-485, 365-369	1.8	24

241	The Hydrodynamic Radius of Particles in the Hybrid Lattice Boltzmann--Molecular Dynamics Method. *Multiscale Modeling and Simulation*, **2013**, 11, 213-243	1.8	23
240	Flux-tunable heat sink for quantum electric circuits. *Scientific Reports*, **2018**, 8, 6325	4.9	21
239	Conformations of DNA in Triangular Nanochannels. *Macromolecules*, **2013**, 46, 4198-4206	5.5	21
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236	Moments of work in the two-point measurement protocol for a driven open quantum system. *Physical Review B*, **2014**, 90,	3.3	21
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234	Density correlations in paper. *Physical Review E*, **1996**, 54, R36-R38	2.4	21
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232	Electrostatic correlations on the ionic selectivity of cylindrical membrane nanopores. *Journal of Chemical Physics*, **2014**, 140, 064701	3.9	20
231	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
230	Thermal fluctuations and phase diagrams of the phase-field crystal model with pinning. *Physical Review E*, **2008**, 78, 031109	2.4	20
229	Quantum diffusion of H/Ni(111) through a Monte Carlo wave function formalism. *Physical Review Letters*, **2001**, 86, 5092-5	7.4	20
228	Dynamics of chainlike molecules on surfaces. *Physical Review E*, **1998**, 57, 1864-1872	2.4	20
227	Diffusion anomaly near structural phase transitions. *Physical Review Letters*, **1992**, 68, 1866-1868	7.4	20
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224	Tracer diffusion in colloidal suspensions under dilute and crowded conditions with hydrodynamic interactions. *Journal of Chemical Physics*, **2012**, 137, 014503	3.9	19

223	Dynamics and scaling of polymers in a dilute solution: analytical treatment in two and higher dimensions. *Journal of Chemical Physics*, **2005**, 122, 094904	3.9	19
222	Phase-field modeling of wetting on structured surfaces. *Journal of Chemical Physics*, **2005**, 123, 194702	3.9	19
221	Interface dynamics and kinetic roughening in fractals. *Physical Review E*, **2002**, 65, 052104	2.4	19
220	Quantum jump model for a system with a finite-size environment. *Physical Review E*, **2016**, 93, 062106	2.4	18
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	Cutting ice: nanowire regelation. *Physical Review Letters*, **2010**, 105, 086102	7.4	18
217	Polymer translocation induced by a bad solvent. *Physical Review E*, **2011**, 83, 011914	2.4	18
216	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
215	Heat transport in pristine and polycrystalline single-layer hexagonal boron nitride. *Physical Chemistry Chemical Physics*, **2018**, 20, 24602-24612	3.6	18
214	Evolution of Temporal Coherence in Confined Exciton-Polariton Condensates. *Physical Review Letters*, **2018**, 120, 017401	7.4	17
213	Heat flux and information backflow in cold environments. *Physical Review A*, **2016**, 94,	2.6	17
212	Entropy production in a non-Markovian environment. *Physical Review E*, **2015**, 92, 012107	2.4	17
211	Theory of polymer translocation through a flickering nanopore under an alternating driving force. *Journal of Chemical Physics*, **2015**, 143, 074905	3.9	17
210	Fluctuations of work in nearly adiabatically driven open quantum systems. *Physical Review E*, **2015**, 91, 022126	2.4	17
209	Biopolymer filtration in corrugated nanochannels. *Physical Review Letters*, **2014**, 112, 118301	7.4	17
208	Polymer translocation in a double-force arrangement. *European Physical Journal E*, **2009**, 28, 385-93	1.5	17
207	Finding transition paths and rate coefficients through accelerated Langevin dynamics. *Physical Review E*, **2002**, 65, 042101	2.4	17
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204	Microscopic theory of surface diffusion. *Physical Review B*, **1990**, 42, 10264-10274	3.3	17
203	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
202	Ionic current inversion in pressure-driven polymer translocation through nanopores. *Physical Review Letters*, **2015**, 114, 088303	7.4	16
201	On the applicability of discrete dipole approximation for plasmonic particles. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2016**, 169, 23-35	2.1	16
200	Percolation and spatial correlations in a two-dimensional continuum deposition model. *Physical Review E*, **2000**, 61, 5002-8	2.4	16
199	Diffusion anisotropy of oxygen and hydrogen adatoms on W(110). *Surface Science*, **1989**, 218, L476-L482	1.8	16
198	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
197	Theoretical approaches to collective diffusion on stepped surfaces. *Journal of Statistical Mechanics: Theory and Experiment*, **2006**, 2006, P10003-P10003	1.9	15
196	Energetics and atomic mechanisms of dislocation nucleation in strained epitaxial layers. *Physical Review B*, **2003**, 68,	3.3	15
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193	Minimum energy paths for dislocation nucleation in strained epitaxial layers. *Physical Review B*, **2002**, 65,	3.3	15
192	Mission Impossible: Find a Random Pseudorandom Number Generator. *Computers in Physics*, **1995**, 9, 500		15
191	Driven Growth in the Restricted Solid-On-Solid Model in Higher Dimensions. *Europhysics Letters*, **1992**, 19, 1-5	1.6	15
190	Energetics and structure of grain boundary triple junctions in graphene. *Scientific Reports*, **2017**, 7, 4754	4.9	14
189	Growth, percolation, and correlations in disordered fiber networks. *Journal of Statistical Physics*, **1997**, 87, 385-413	1.5	14
188	Diffusion and mobility of interacting particles on stepped surfaces. *Surface Science*, **2003**, 544, L703-L708	1.8	14

187	Dynamics and kinetic roughening of interfaces in two-dimensional forced wetting. *European Physical Journal B*, **2005**, 46, 553-561	1.2	14
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181	Alteration of gas phase ion polarizabilities upon hydration in high dielectric liquids. *Journal of Chemical Physics*, **2013**, 139, 044907	3.9	13
180	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
179	Strain relief in Cu-Pd heteroepitaxy. *Physical Review Letters*, **2005**, 94, 146105	7.4	13
178	Velocity correlations and diffusion during sedimentation. *Physical Review E*, **2001**, 63, 061505	2.4	13
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176	Molecular ordering of precursor films during spreading of tiny liquid droplets. *Physical Review E*, **1995**, 52, R2165-R2167	2.4	13
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173	System-environment correlations in qubit initialization and control. *Physical Review Research*, **2019**, 1,	3.9	13
172	Thermodynamics of information exchange between two coupled quantum dots. *Physical Review E*, **2016**, 93, 032147	2.4	12
171	Modeling self-organization of thin strained metallic overlayers from atomic to micron scales. *Physical Review B*, **2013**, 88,	3.3	12
170	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

169	Stress release mechanisms for Cu on Pd(111) in the submonolayer and monolayer regimes. *Physical Review B*, **2010**, 81,	3.3	12
168	Electronic properties of H on vicinal Pt surfaces: First-principles study. *Physical Review B*, **2009**, 80,	3.3	12
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165	Non-equilibrium effects in profile spreading on stepped surfaces. *Surface Science*, **2003**, 529, L256-L262	1.8	12
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162	Adatom dynamics in a periodic potential under time-periodic bias. *Surface Science*, **2000**, 460, 39-48	1.8	12
161	Stochastic resonance and diffusion in periodic potentials. *Journal of Physics Condensed Matter*, **1999**, 11, 9841-9849	1.8	12
160	Comment on Surface diffusion near the points corresponding to continuous phase transitions[J. Chem. Phys. 109, 3197 (1998)]. *Journal of Chemical Physics*, **1999**, 111, 11232-11233	3.9	12
159	Growth and structure of random fibre clusters and cluster networks. *Physical Review Letters*, **1995**, 75, 3556-3559	7.4	12
158	Scaling exponents for driven two-dimensional surface growth. *Journal of Statistical Physics*, **1994**, 76, 1083-1088	1.5	12
157	Wetting in the two-dimensional ANNNI model. *Journal of Physics A*, **1986**, 19, L41-L47		12
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155	Quantifying non-Markovianity due to driving and a finite-size environment in an open quantum system. *Physical Review A*, **2017**, 95,	2.6	11
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