

# Peter H Poole

## List of Publications by Year in descending order

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72  
papers

9,888  
citations

101384

36  
h-index

98622

67  
g-index

74  
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74  
docs citations

74  
times ranked

4139  
citing authors

#	ARTICLE	IF	CITATIONS
1	Free energy surface of two-step nucleation. <i>Journal of Chemical Physics</i> , 2021, 154, 234507.	1.2	9
2	Liquid-liquid phase transition in simulations of ultrafast heating and decompression of amorphous ice. <i>Journal of Non-Crystalline Solids: X</i> , 2021, 11-12, 100067.	0.5	4
3	Advances in the study of supercooled water. <i>European Physical Journal E</i> , 2021, 44, 143.	0.7	40
4	Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. <i>Science</i> , 2020, 370, 978-982.	6.0	143
5	The stability-limit conjecture revisited. <i>Journal of Chemical Physics</i> , 2019, 150, 234502.	1.2	18
6	State variables for glasses: The case of amorphous ice. <i>Journal of Chemical Physics</i> , 2019, 150, 224502.	1.2	14
7	Surface tension of supercooled water nanodroplets from computer simulations. <i>Journal of Chemical Physics</i> , 2019, 150, 234507.	1.2	15
8	Phase transitions in fluctuations and their role in two-step nucleation. <i>Journal of Chemical Physics</i> , 2019, 150, 074501.	1.2	30
9	Evaluating the Laplace pressure of water nanodroplets from simulations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 144005.	0.7	15
10	Thermodynamic and structural anomalies of water nanodroplets. <i>Nature Communications</i> , 2018, 9, 2402.	5.8	19
11	Advances in Computational Studies of the Liquid-Liquid Transition in Water and Water-Like Models. <i>Chemical Reviews</i> , 2018, 118, 9129-9151.	23.0	152
12	Influence of sample preparation on the transformation of low-density to high-density amorphous ice: An explanation based on the potential energy landscape. <i>Journal of Chemical Physics</i> , 2017, 147, 044501.	1.2	15
13	“Swarm relaxation” Equilibrating a large ensemble of computer simulations†. <i>European Physical Journal E</i> , 2017, 40, 98.	0.7	7
14	Potential energy landscape of the apparent first-order phase transition between low-density and high-density amorphous ice. <i>Journal of Chemical Physics</i> , 2016, 145, 224501.	1.2	27
15	Phase diagram of the ST2 model of water. <i>Molecular Physics</i> , 2015, 113, 2791-2798.	0.8	25
16	Free energy of formation of small ice nuclei near the Widom line in simulations of supercooled water. <i>European Physical Journal E</i> , 2015, 38, 124.	0.7	15
17	Two-state thermodynamics of the ST2 model for supercooled water. <i>Journal of Chemical Physics</i> , 2014, 140, 104502.	1.2	96
18	Free energy surface of ST2 water near the liquid-liquid phase transition. <i>Journal of Chemical Physics</i> , 2013, 138, 034505.	1.2	118

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19	Heterogeneous nucleation in the low-barrier regime. <i>Physical Review E</i> , 2013, 87, 042407.	0.8	14
20	Study of the ST2 model of water close to the liquid-liquid critical point. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19759.	1.3	117
21	Dynamical Behavior Near a Liquid-Liquid Phase Transition in Simulations of Supercooled Water. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14176-14183.	1.2	75
22	Mixture-like Behavior Near a Liquid-Liquid Phase Transition in Simulations of Supercooled Water. <i>Physical Review Letters</i> , 2011, 106, 115706.	2.9	132
23	Spatial correlation of the dynamic propensity of a glass-forming liquid. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 235103.	0.7	22
24	Simulations of a lattice model of two-headed linear amphiphiles: Influence of amphiphile asymmetry. <i>Journal of Chemical Physics</i> , 2011, 134, 204503.	1.2	5
25	Spectral statistics of the quenched normal modes of a network-forming molecular liquid. <i>Journal of Chemical Physics</i> , 2009, 130, 124512.	1.2	5
26	Crystal Nucleation in a Supercooled Liquid with Glassy Dynamics. <i>Physical Review Letters</i> , 2009, 103, 225701.	2.9	28
27	Observation of the density minimum in deeply supercooled confined water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9570-9574.	3.3	178
28	Granular circulation in a cylindrical pan: Simulations of reversing radial and tangential flows. <i>Physical Review E</i> , 2007, 76, 021305.	0.8	0
29	Test of classical nucleation theory on deeply supercooled high-pressure simulated silica. <i>Journal of Chemical Physics</i> , 2006, 124, 224709.	1.2	34
30	Fractional Stokes-Einstein and Debye-Stokes-Einstein Relations in a Network-Forming Liquid. <i>Physical Review Letters</i> , 2006, 97, 055901.	2.9	158
31	Structural and dynamical heterogeneity in a glass-forming liquid. <i>Physical Review E</i> , 2006, 74, 050502.	0.8	68
32	Density minimum and liquid-liquid phase transition. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L431-L437.	0.7	181
33	Bulk motion of granular matter in an agitated cylindrical bed. <i>Physical Review E</i> , 2005, 71, 011303.	0.8	3
34	Simulated silica. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 525-535.	1.6	15
35	Relation between the Widom line and the dynamic crossover in systems with a liquid-liquid phase transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16558-16562.	3.3	693
36	Free energy and configurational entropy of liquid silica: Fragile-to-strong crossover and polymorphism. <i>Physical Review E</i> , 2004, 69, 041503.	0.8	110

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37	Phase diagram of silica from computer simulation. <i>Physical Review E</i> , 2004, 70, 061507.	0.8	73
38	Fragile-to-strong crossover and polyamorphism in liquid silica: changes in liquid structure. <i>Philosophical Magazine</i> , 2004, 84, 1437-1445.	0.7	14
39	Limiting Tensions For Liquids and Glasses from Laboratory and MD Studies. , 2002, , 33-46.		9
40	Interrelationship of Polyamorphism and the Fragile-to-Strong Transition in Liquid Silica. , 2002, , 168-178.		0
41	Fragile-to-strong transition and polyamorphism in the energy landscape of liquid silica. <i>Nature</i> , 2001, 412, 514-517.	13.7	356
42	Influence of mass polydispersity on dynamics of simple liquids and colloids. <i>Physical Review E</i> , 2001, 65, 011402.	0.8	9
43	The potential energy landscape of the $\hat{\mu}$ Ising spin glass. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 6675-6682.	0.7	6
44	Computer simulations of liquid silica: "Equation of state and liquid" liquid phase transition. <i>Physical Review E</i> , 2000, 63, 011202.	0.8	219
45	Spatial correlations of mobility and immobility in a glass-forming Lennard-Jones liquid. <i>Physical Review E</i> , 1999, 60, 3107-3119.	0.8	455
46	Growing Spatial Correlations of Particle Displacements in a Simulated Liquid on Cooling toward the Glass Transition. <i>Physical Review Letters</i> , 1999, 82, 5064-5067.	2.9	160
47	Spatially-Correlated Dynamics in Glass-Forming Systems: Correlation Functions and Simulations. <i>Springer Proceedings in Physics</i> , 1999, , 212-227.	0.1	1
48	Spatial correlations of particle displacements in a glass-forming liquid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 261, 51-59.	1.2	43
49	Computer simulations of structure and transport in glasses and supercooled liquids. <i>Current Opinion in Solid State and Materials Science</i> , 1998, 3, 391-396.	5.6	13
50	Dynamical heterogeneity in the Ising spin glass. <i>Physical Review E</i> , 1998, 57, 7350-7353.	0.8	31
51	Stringlike Cooperative Motion in a Supercooled Liquid. <i>Physical Review Letters</i> , 1998, 80, 2338-2341.	2.9	846
52	Equation of state of supercooled water simulated using the extended simple point charge intermolecular potential. <i>Journal of Chemical Physics</i> , 1997, 107, 7443-7450.	1.2	152
53	Emergence of Fast Local Dynamics on Cooling toward the Ising Spin Glass Transition. <i>Physical Review Letters</i> , 1997, 78, 3394-3397.	2.9	29
54	Comparison of Thermodynamic Properties of Simulated Liquid Silica and Water. <i>Physical Review Letters</i> , 1997, 79, 2281-2284.	2.9	158

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55	Line of compressibility maxima in the phase diagram of supercooled water. <i>Physical Review E</i> , 1997, 55, 727-737.	0.8	203
56	Liquid-Liquid Phase Transition: Evidence from Simulations. <i>Physical Review Letters</i> , 1997, 78, 2409-2412.	2.9	270
57	Dynamical Heterogeneities in a Supercooled Lennard-Jones Liquid. <i>Physical Review Letters</i> , 1997, 79, 2827-2830.	2.9	861
58	Polymorphic Phase Transitions in Liquids and Glasses. <i>Science</i> , 1997, 275, 322-323.	6.0	427
59	Non-Monotonic Temperature Dependence of Local Dynamics and Local Energy upon Cooling toward the Ising Spin Glass Transition. <i>Progress of Theoretical Physics Supplement</i> , 1997, 126, 383-386.	0.2	0
60	Chapter 12. COMPUTER SIMULATIONS OF SILICATE MELTS. , 1995, , 563-616.		6
61	Amorphous polymorphism. <i>Computational Materials Science</i> , 1995, 4, 373-382.	1.4	72
62	Crystalline-amorphous transition in silicate perovskites. <i>Physical Review B</i> , 1995, 51, 14841-14848.	1.1	51
63	Glass-forming liquids, anomalous liquids, and polyamorphism in liquids and biopolymers. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 993-1025.	0.4	158
64	Effect of Hydrogen Bonds on the Thermodynamic Behavior of Liquid Water. <i>Physical Review Letters</i> , 1994, 73, 1632-1635.	2.9	409
65	Phase diagram for amorphous solid water. <i>Physical Review E</i> , 1993, 48, 4605-4610.	0.8	181
66	Spinodal of liquid water. <i>Physical Review E</i> , 1993, 48, 3799-3817.	0.8	199
67	Time-dependent thermodynamic properties of the Ising model from damage spreading. <i>Journal of Statistical Physics</i> , 1992, 68, 895-910.	0.5	27
68	Phase behaviour of metastable water. <i>Nature</i> , 1992, 360, 324-328.	13.7	1,652
69	Learning science through guided discovery: liquid water and molecular networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 177, 281-293.	1.2	2
70	Lifetime of the bond network and gel-like anomalies in supercooled water. <i>Physical Review Letters</i> , 1990, 64, 1686-1689.	2.9	141
71	Universality classes of the $\lambda$ and $\lambda_c$ points. <i>Physical Review B</i> , 1989, 39, 495-504.	1.1	51
72	Free energy surface of ST2 water near the liquid-liquid phase transition. , 0, .		1