

First-principles order-parameter theory of freezing

Physical Review B

19, 2775-2794

DOI: [10.1103/physrevb.19.2775](https://doi.org/10.1103/physrevb.19.2775)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Crystal Structure and Pair Potentials: A Molecular-Dynamics Study. Physical Review Letters, 1980, 45, 1196-1199.	2.9	2,873
2	Modified lattice-gas model for the gas-liquid-solid phase diagram. Physical Review B, 1980, 21, 2946-2951.	1.1	5
3	A molecular theory for the solid-liquid interface. Journal of Chemical Physics, 1981, 74, 2559-2565.	1.2	429
4	Electric resistivity and structure of liquid alkali metals and alloys as electron-ion plasmas. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1981, 111, 283-290.	0.9	4
5	Generalized structural theory of freezing. Physical Review B, 1981, 23, 5871-5879.	1.1	39
6	Density-Wave Theory of First-Order Freezing in Two Dimensions. Physical Review Letters, 1982, 48, 541-545.	2.9	126
7	Molecular-dynamics study of melting in two dimensions. Inverse-twelfth-power interaction. Physical Review B, 1982, 25, 4651-4669.	1.1	170
8	Density-functional theory of submonolayer phases of rare gases on graphite. Physical Review B, 1982, 26, 179-183.	1.1	30
9	Aspects of an Unitary Classical Molecular Theory of the Crystalline and the Fluid State at Thermal Equilibrium. Annalen Der Physik, 1982, 494, 186-194.	0.9	5
10	Statistical theory of crystallization in classical systems. Theoretical and Mathematical Physics(Russian Federation), 1983, 55, 399-405.	0.3	17
11	A disorder model of melting. Physica Status Solidi (B): Basic Research, 1983, 119, 703-708.	0.7	8
12	Statistical mechanics of ionic matter: Summary of a workshop. Journal of Statistical Physics, 1983, 31, 409-422.	0.5	5
13	A mean-field theory of melting. Journal of Physics C: Solid State Physics, 1983, 16, 273-283.	1.5	16
14	A molecular theory for the freezing of hard spheres. Journal of Chemical Physics, 1983, 78, 4641-4648.	1.2	112
15	The modern theory of crystallization and the Hansen-Verlet rule. Molecular Physics, 1983, 50, 543-565.	0.8	35
16	A study of the freezing transition in the Lennard-Jones system. Journal of Chemical Physics, 1983, 79, 6222-6228.	1.2	18
17	Orientalional freezing in three dimensions: Mean-field theory. Physical Review B, 1983, 27, 1725-1731.	1.1	38
18	A systematic density functional approach to the mean field theory of smectics. Journal of Chemical Physics, 1983, 79, 1939-1941.	1.2	40

#	ARTICLE	IF	CITATIONS
19	X-ray scattering study of the structure and freezing transition of monolayer xenon on graphite. <i>Physical Review B</i> , 1983, 28, 6416-6434.	1.1	112
20	Molecular field theory of nematics: density functional approach. I. Bulk effects. <i>Journal of Physics A</i> , 1983, 16, 1539-1553.	1.6	77
21	Freezing of Ionic Melts into Normal and Superionic Phases. <i>Physics and Chemistry of Liquids</i> , 1983, 13, 113-122.	0.4	20
22	Crystal stability, thermal vibration, and vacancies. <i>Physical Review B</i> , 1984, 30, 4215-4229.	1.1	33
23	New behavior for the density dependence of vacancy formation and mobility in bccHe3at high molar volumes. <i>Physical Review B</i> , 1984, 30, 2940-2943.	1.1	57
24	Molecular Theory for the Freezing of the Classical One-Component Plasma. <i>Physical Review Letters</i> , 1984, 52, 1013-1016.	2.9	40
25	Molecular theory of liquid crystals: Application to the nematic phase. <i>Physical Review A</i> , 1984, 30, 583-593.	1.0	60
26	Crystallization of the classical one-component plasma. <i>Physical Review B</i> , 1984, 29, 2857-2860.	1.1	21
27	Density wave theory of freezing and the solid. <i>Pramana - Journal of Physics</i> , 1984, 22, 365-375.	0.9	36
28	Relative stability of f.c.c. and b.c.c. structures for model systems at high temperatures. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1984, 4, 357-381.	0.4	20
29	A density functional theory of melting. <i>Molecular Physics</i> , 1984, 52, 81-96.	0.8	367
30	Kinetics of the Nucleation of a Crystalline Droplet from the Melt. <i>Materials Research Society Symposia Proceedings</i> , 1985, 57, 79.	0.1	0
31	From Hamiltonians to Phase Diagrams. <i>Materials Research Society Symposia Proceedings</i> , 1985, 63, 73.	0.1	57
32	Structure and crystallization of the 2D classical electron fluid. , 1985, , 539-543.		0
33	Freezing of a modulated liquid: The superionic-to-normal transition of strontium chloride. <i>Solid State Communications</i> , 1985, 55, 1109-1111.	0.9	12
34	Melting in two dimensionsâ€™the current status. <i>Pramana - Journal of Physics</i> , 1985, 24, 317-350.	0.9	14
35	Free-energy density functional for hard spheres. <i>Physical Review A</i> , 1985, 31, 2672-2679.	1.0	974
36	Hard-Sphere Glass and the Density-Functional Theory of Aperiodic Crystals. <i>Physical Review Letters</i> , 1985, 54, 1059-1062.	2.9	226

#	ARTICLE	IF	CITATIONS
37	Quasi crystalsâ€™an overview. Bulletin of Materials Science, 1985, 7, 179-199.	0.8	2
38	Freezing of the Lennard-Jones liquid. Chemical Physics Letters, 1985, 122, 320-323.	1.2	43
39	Density functional theory for the stability of icosahedral quasicrystals. Chemical Physics Letters, 1985, 122, 324-326.	1.2	7
40	On the density-wave theory of classical Wigner crystallisation. Journal of Physics C: Solid State Physics, 1985, 18, 3445-3455.	1.5	50
41	Stability of the high-density hard-sphere solid in the density-functional theories of freezing. Journal of Physics C: Solid State Physics, 1985, 18, L365-L370.	1.5	15
42	Liquid structure and freezing of the two-dimensional classical electron fluid. Journal of Physics C: Solid State Physics, 1985, 18, 4011-4019.	1.5	9
43	A density functional-variational treatment of the hard sphere transition. Molecular Physics, 1985, 54, 1241-1252.	0.8	85
44	Orientalional Order in Liquids: A Possible Scenario of Freezing. Physical Review Letters, 1985, 54, 2359-2362.	2.9	26
45	Theory for the nucleation of a crystalline droplet from the melt. Physical Review B, 1985, 32, 7299-7307.	1.1	52
46	Theory of freezing in simple systems. Physical Review A, 1985, 31, 1647-1657.	1.0	9
47	Relative stability of dense crystalline packings. Physical Review B, 1985, 31, 7446-7448.	1.1	1
48	Classical fluid in a periodic potential and the density-functional approach. Physical Review A, 1985, 32, 3726-3729.	1.0	10
49	Theory of monolayer physical adsorption. III. Density functional theory of twoâ€™dimensional nonuniform fluids and theory of freezing. Journal of Chemical Physics, 1985, 82, 2499-2506.	1.2	21
50	Selfâ€™diffusion across the liquidâ€™crystal interface. Journal of Chemical Physics, 1985, 82, 5677-5684.	1.2	20
51	Order in metallic glasses and icosahedral crystals. Physical Review B, 1985, 32, 4592-4606.	1.1	207
52	Freezing in krypton monolayers adsorbed on graphite. Journal of Chemical Physics, 1985, 82, 3413-3419.	1.2	12
53	Solidâ€™liquid coexistence in the adhesive hard sphere system. Journal of Chemical Physics, 1985, 83, 4103-4106.	1.2	39
54	A conjecture concerning transformation of a supercooled hard sphere liquid to a metastable disordered solid. Journal of Chemical Physics, 1985, 82, 3350-3359.	1.2	13

#	ARTICLE	IF	CITATIONS
55	Weighted-density-functional theory of inhomogeneous liquids and the freezing transition. <i>Physical Review A</i> , 1985, 32, 2909-2919.	1.0	460
56	The freezing of hard spheres. <i>Molecular Physics</i> , 1985, 56, 807-824.	0.8	43
57	The elastic constants of condensed matter: A direct correlation function approach. <i>Journal of Chemical Physics</i> , 1985, 82, 472-479.	1.2	66
58	Orientalional freezing in three dimensions. <i>Journal of Non-Crystalline Solids</i> , 1985, 75, 79-84.	1.5	4
59	Microscopic theory of aperiodic crystals: Approaches for the hard sphere glass transition. <i>Journal of Non-Crystalline Solids</i> , 1985, 75, 443-448.	1.5	11
60	A Monte Carlo study of crystal structure transformations. <i>Molecular Physics</i> , 1985, 54, 245-251.	0.8	95
61	Freezing and interfaces: Density functional theories in two and three dimensions. <i>Progress in Solid State Chemistry</i> , 1986, 17, 1-32.	3.9	39
62	Crystalline Nucleation in Deeply Quenched Liquids. <i>Physical Review Letters</i> , 1986, 57, 2845-2848.	2.9	98
63	Nucleation of Crystals from the Melt. <i>Annals of the New York Academy of Sciences</i> , 1986, 484, 26-38.	1.8	6
64	Density functional theory of freezing of the hard sphere liquid into FCC against HCP structures. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 6907-6914.	1.5	14
65	Possible Freezing Scenarios for Classical Liquids. <i>Physica Scripta</i> , 1986, T13, 259-266.	1.2	3
66	Dynamic structure factor across the liquid-solid interface: appearance of a delta-function elastic peak. <i>Chemical Physics Letters</i> , 1986, 125, 91-96.	1.2	5
67	Phase transitions in adsorbed films V: Perturbational approach to adsorption on crystalline solids. <i>Thin Solid Films</i> , 1986, 143, 291-309.	0.8	6
68	On the kinetics of crystal growth from a supercooled melt. <i>Journal of Chemical Sciences</i> , 1986, 96, 465-472.	0.7	3
69	Structure and dynamics of molten salts. <i>Reports on Progress in Physics</i> , 1986, 49, 1001-1081.	8.1	218
70	Mean field theories of quasicrystalline order. <i>Ferroelectrics</i> , 1986, 66, 127-133.	0.3	6
71	Debye-Waller factor of the solid from the self-diffusion coefficient at the solid-liquid interface. <i>Journal of Chemical Physics</i> , 1986, 85, 4667-4668.	1.2	6
72	Density functional theory of freezing with reference liquid. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 5799-5815.	1.5	24

#	ARTICLE	IF	CITATIONS
73	Effects of correlations in the mean-field theory of melting. Journal of Physics C: Solid State Physics, 1986, 19, 129-138.	1.5	2
74	Low-temperature relaxation in glassy systems. Physical Review A, 1986, 34, 4993-4999.	1.0	14
75	Exact and approximate expressions for the three-particle direct correlation function and some related functions. Physical Review A, 1986, 33, 1338-1348.	1.0	10
76	Ordering in the parallel hard hypercube gas. Journal of Chemical Physics, 1986, 85, 3515-3519.	1.2	32
77	Theory of Shear-Induced Melting of Colloidal Crystals. Physical Review Letters, 1986, 56, 945-948.	2.9	26
78	Potts lattice-gas model for the solid-liquid interfacial tensions of simple fluids. Physical Review B, 1986, 34, 1811-1814.	1.1	7
79	Molecular dynamics study of a two-dimensional system with screened Coulomb interactions. Journal of Chemical Physics, 1986, 85, 2232-2236.	1.2	13
80	Density-Functional Theory of Freezing of Hard-Sphere Mixtures into Substitutional Solid Solutions. Physical Review Letters, 1986, 56, 1063-1065.	2.9	114
81	Density-functional theory and freezing of simple liquids. Physical Review Letters, 1986, 56, 2775-2778.	2.9	231
82	Molecular theory for freezing of a system of hard ellipsoids: Properties of isotropic-plastic and isotropic-nematic transitions. Physical Review A, 1986, 33, 2725-2734.	1.0	74
83	Anisotropic surface free energy and the roughening transition of the diffuse crystal-liquid interface. Physical Review B, 1986, 33, 6293-6303.	1.1	10
84	Elastic constants in density-functional theory. Molecular Physics, 1987, 61, 455-466.	0.8	22
85	A density functional calculation of the liquid-solid phase diagram of a charged-hard-spheres model of a salt. Journal of Physics C: Solid State Physics, 1987, 20, 1031-1040.	1.5	20
86	Role of Triple Correlations in the Freezing of the One-Component Plasma. Europhysics Letters, 1987, 3, 523-526.	0.7	41
87	The freezing of simple liquid metals: density functional approach to the structural stability of the crystalline phase. Journal of Physics C: Solid State Physics, 1987, 20, 1803-1813.	1.5	12
88	Hard sphere fluids near a hard wall and a hard cylinder. Molecular Physics, 1987, 62, 861-874.	0.8	80
89	Density-functional theory of the solid-liquid interface. Physical Review Letters, 1987, 59, 1228-1231.	2.9	105
90	A density functional treatment of the hard dumbbell freezing transition. Journal of Chemical Physics, 1987, 87, 4853-4858.	1.2	73

#	ARTICLE	IF	CITATIONS
91	Renormalized density-functional theory for inhomogeneous liquids. <i>Physical Review A</i> , 1987, 36, 4356-4359.	1.0	56
92	Weighted-density-functional and simulation studies of the bcc hard-sphere solid. <i>Physical Review A</i> , 1987, 35, 4755-4762.	1.0	66
93	Density functional theory for the freezing of 1:1 hard sphere mixtures. <i>Journal of Chemical Physics</i> , 1987, 86, 6486-6494.	1.2	59
94	Density functional theory of soft sphere freezing. <i>Journal of Chemical Physics</i> , 1987, 86, 6360-6365.	1.2	54
95	Order-disorder transition in colloidal suspensions. <i>Physical Review A</i> , 1987, 36, 5690-5700.	1.0	54
96	Elastic properties of a hard-sphere crystal. <i>Physical Review A</i> , 1987, 36, 979-981.	1.0	31
97	Ginzburg-Landau theory for the solid-liquid interface of bcc elements. <i>Physical Review A</i> , 1987, 35, 2611-2618.	1.0	61
98	Lattice theory of crystal surface melting. <i>Physical Review Letters</i> , 1987, 59, 2207-2210.	2.9	86
99	Jariř and Mohanty reply. <i>Physical Review Letters</i> , 1987, 59, 1170-1170.	2.9	11
100	Mesoscopic approach to the glass transformation. <i>Physical Review Letters</i> , 1987, 58, 1656-1659.	2.9	30
101	Statistical mechanics of the single occupancy system. <i>Journal of Chemical Physics</i> , 1987, 87, 5403-5414.	1.2	3
102	â€™Martensiticâ€™ instability of an icosahedral quasicrystal. <i>Physical Review Letters</i> , 1987, 58, 230-233.	2.9	60
103	Density-functional theory for the freezing of water. <i>Physical Review Letters</i> , 1987, 59, 1698-1701.	2.9	44
104	Structure of inverse-power fluids in analytical form. <i>Molecular Physics</i> , 1987, 61, 849-858.	0.8	6
105	An introductory overview. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1987, 56, 237-249.	0.6	41
106	Aggregation and percolation in a system of adhesive spheres. <i>Journal of Chemical Physics</i> , 1987, 86, 4668-4677.	1.2	120
107	Theory of first-order phase transitions. <i>Reports on Progress in Physics</i> , 1987, 50, 783-859.	8.1	882
108	The aperiodic crystal picture and free energy barriers in glasses. <i>Journal of Chemical Physics</i> , 1987, 86, 2943-2948.	1.2	163

#	ARTICLE	IF	CITATIONS
109	Monte Carlo determination of the elastic constants of the hard-sphere solid. <i>Physical Review A</i> , 1987, 36, 4852-4858.	1.0	35
110	Factorization of the Triplet Direct Correlation Function in Dense Fluids. <i>Physical Review Letters</i> , 1987, 58, 2075-2078.	2.9	70
111	A density functional approach to freezing transitions in molecular fluids: Dipolar hard spheres. <i>Journal of Chemical Physics</i> , 1987, 86, 4146-4156.	1.2	26
112	Connections between some kinetic and equilibrium theories of the glass transition. <i>Physical Review A</i> , 1987, 35, 3072-3080.	1.0	482
113	Density functional theory of freezing: Analysis of crystal density. <i>Journal of Chemical Physics</i> , 1987, 87, 5449-5456.	1.2	75
114	Freezing of binary hard-sphere mixtures into disordered crystals: a density functional approach. <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, 1413-1430.	1.5	78
115	A computer simulation study of the melting and freezing properties of a system of Lennard-Jones particles. <i>Molecular Physics</i> , 1987, 61, 597-615.	0.8	26
116	Thermodynamic Consistency and Entropy Change in the Density-Wave Theory of Freezing. <i>Physics and Chemistry of Liquids</i> , 1987, 16, 157-162.	0.4	1
117	A discussion of melting phenomena. , 1987, , 395-409.		0
118	Freezing. <i>Science</i> , 1987, 236, 1076-1080.	6.0	28
119	The Lindemann law of melting for rare gas solids. <i>Journal of Materials Science Letters</i> , 1987, 6, 404-406.	0.5	5
120	Two-dimensional fluids in a periodic external potential: Intercalation in graphite. <i>Chemical Physics Letters</i> , 1987, 137, 72-77.	1.2	7
121	Stability of a supercooled liquid to periodic density waves and dynamics of freezing. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 145, 273-289.	1.2	39
122	Dynamics of freezing and liquid instability. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 121, 29-33.	0.9	7
123	Influence of the size ratio on freezing of oppositely charged hard spheres. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 132, 187-189.	0.9	9
124	Topological defects in crystals: A density-wave theory. <i>Bulletin of Materials Science</i> , 1988, 10, 45-51.	0.8	1
125	Freezing of polydisperse hard spheres. <i>Journal of Chemical Physics</i> , 1988, 88, 1114-1125.	1.2	85
126	Freezing in the density functional approach: Effect of third-order contributions. <i>Journal of Chemical Physics</i> , 1988, 88, 7050-7058.	1.2	59

#	ARTICLE	IF	CITATIONS
127	Accurate Calculation of Isotropic-Plastic and Isotropic-Nematic Transitions in the Hard-Ellipsoid Fluid. <i>Physical Review Letters</i> , 1988, 60, 325-328.	2.9	53
128	Density functional theory of freezing for hexagonal symmetry: Comparison with Landau theory. <i>Journal of Chemical Physics</i> , 1988, 88, 3900-3909.	1.2	16
129	Freezing of the hard core Yukawa fluid. <i>Journal of Chemical Physics</i> , 1988, 88, 5834-5839.	1.2	13
130	Density-functional theory of elastic moduli: Hard-sphere and Lennard-Jones crystals. <i>Physical Review B</i> , 1988, 37, 4441-4457.	1.1	29
131	Density-wave theory of dislocations in crystals. <i>Physical Review B</i> , 1988, 37, 1936-1949.	1.1	15
132	Density functional theory of freezing for molecular liquids. <i>Journal of Chemical Physics</i> , 1988, 88, 2004-2014.	1.2	43
133	Density functional theory applied to the isotropic-nematic transition in model liquid crystals. <i>Journal of Chemical Physics</i> , 1988, 89, 6941-6946.	1.2	78
134	A theory of the interionic structure of graphite intercalation synthetic metals: Variations with respect to interactions and state. <i>Journal of Chemical Physics</i> , 1988, 89, 1042-1048.	1.2	18
135	Molecular theory for freezing transition of hard ellipsoid and hard dumbbell molecules. <i>Physical Review A</i> , 1988, 38, 4377-4380.	1.0	17
136	Lattice theory of surface melting. <i>Physical Review B</i> , 1988, 38, 6961-6974.	1.1	58
137	Liquid-mesophase-solid transitions: Systematics of a density-wave theory. <i>Physical Review A</i> , 1988, 38, 1049-1064.	1.0	12
138	A theoretical study of the hard sphere fluid-solid interface. <i>Journal of Chemical Physics</i> , 1988, 88, 1967-1975.	1.2	56
139	The equilibrium interfaces of simple molecules. <i>Journal of Chemical Physics</i> , 1988, 88, 7757-7765.	1.2	7
140	Freezing of the hard-sphere liquid. <i>Physical Review B</i> , 1988, 38, 808-810.	1.1	10
141	Freezing of a colloidal liquid subject to shear flow. <i>Physical Review A</i> , 1988, 37, 2530-2538.	1.0	13
142	Density-functional analysis of Wigner crystallization. <i>Physical Review B</i> , 1988, 38, 5713-5715.	1.1	7
143	Density-functional theory of elastic moduli: Icosahedral quasicrystals. <i>Physical Review B</i> , 1988, 38, 9434-9446.	1.1	9
144	Freezing of Colloidal Crystals. <i>Physics and Chemistry of Liquids</i> , 1988, 18, 207-226.	0.4	6

#	ARTICLE	IF	CITATIONS
145	Freezing of binary hard-disc alloys: I. The equation of state and pair structure of the fluid phase. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 3165-3176.	1.5	37
146	Macrocystal Phases in Charged Colloidal Suspensions. <i>Europhysics Letters</i> , 1988, 6, 567-572.	0.7	12
147	Isothermal-expansion melting of two-dimensional colloidal monolayers on the surface of water. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 1707-1730.	0.7	61
148	Mode locking in quasicrystals. <i>Physical Review B</i> , 1989, 39, 11862-11871.	1.1	101
149	Free-energy model for the inhomogeneous hard-sphere fluid mixture and density-functional theory of freezing. <i>Physical Review Letters</i> , 1989, 63, 980-983.	2.9	1,417
150	Density-functional theory of crystal-melt interfaces. <i>Physical Review B</i> , 1989, 39, 6775-6791.	1.1	106
151	First-order phase transitions in the hard-ellipsoid fluid from variationally optimized direct pair correlations. <i>Physical Review A</i> , 1989, 39, 2050-2062.	1.0	32
152	On the structure factor of a hard-sphere solid. <i>Journal of Chemical Physics</i> , 1989, 90, 5880-5881.	1.2	1
153	Crystal-melt and melt-vapor interfaces of nickel. <i>Physical Review B</i> , 1989, 40, 924-932.	1.1	75
154	Modified weighted-density-functional theory of nonuniform classical liquids. <i>Physical Review A</i> , 1989, 39, 4701-4708.	1.0	290
155	Surface melting and surface-induced-disorder transitions in thin films: The effect of hidden variables. <i>Physical Review B</i> , 1989, 40, 7221-7229.	1.1	13
156	Freezing of quantum liquids. <i>Journal of Chemical Physics</i> , 1989, 90, 4622-4623.	1.2	30
157	Density Functional Mean Field Theory of Crystal-Melt Interfaces. <i>Physics and Chemistry of Liquids</i> , 1989, 20, 39-43.	0.4	1
158	Polytetrahedral Order in Condensed Matter. <i>Solid State Physics</i> , 1989, 42, 1-90.	1.3	241
159	The solid-liquid interfacial tension of diamond-structure Si and Ge. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 1779-1783.	0.7	9
160	Correlation functions of some continuous model systems and description of phase transitions. <i>Physics Reports</i> , 1989, 172, 175-337.	10.3	3
161	Freezing criterion for liquid to crystalline transition in charged colloidal suspensions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 138, 208-212.	0.9	25
162	Density functional theory of homogeneous states. <i>Journal of Statistical Physics</i> , 1989, 56, 709-719.	0.5	14

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163	Theory of freezing: The inhomogeneous Ornstein-Zernike equation. <i>International Journal of Thermophysics</i> , 1989, 10, 87-100.	1.0	6
164	A Hamiltonian Model of Liquefaction and Crystallization in Three Dimensions. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 154, 115-125.	0.7	0
165	Density functional theory for the freezing of Lennard-Jones binary mixtures. <i>Journal of Chemical Physics</i> , 1989, 90, 1188-1199.	1.2	65
166	Generalized van der Waals theory of hard sphere oscillatory structure. <i>Journal of Chemical Physics</i> , 1989, 90, 5657-5663.	1.2	39
167	Ginzburg-Landau theory for the solid-liquid interface of bcc elements. II. Application to the classical one-component plasma, the Wigner crystal, and He4. <i>Physical Review A</i> , 1989, 39, 4761-4766.	1.0	1
168	High-order direct correlation functions of uniform classical liquids. <i>Physical Review A</i> , 1989, 39, 426-429.	1.0	126
169	Path integral versus conventional formulation of equilibrium classical statistical mechanics. <i>Journal of Chemical Physics</i> , 1989, 91, 4849-4860.	1.2	13
170	Weighted-Density Theory of Phase Transitions in Fluids Composed of Anisotropic Particles. <i>Materials Research Society Symposia Proceedings</i> , 1989, 177, 329.	0.1	0
171	A Dynamical Extension of the Density Functional Theory. <i>Journal of the Physical Society of Japan</i> , 1989, 58, 2434-2438.	0.7	36
172	Freezing of Coulomb Liquids. <i>Physica Scripta</i> , 1989, T29, 277-281.	1.2	2
173	Information Content of Diffraction Experiments on Liquids and Amorphous Solids. <i>Physics and Chemistry of Liquids</i> , 1990, 22, 133-148.	0.4	0
174	New perspectives on freezing and melting. <i>Nature</i> , 1990, 347, 725-730.	13.7	119
175	Statistical mechanical models for liquid and amorphous structure in covalently bonded systems. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 619-632.	0.4	1
176	Recent developments in the theory of ionic melts. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 703-717.	0.4	2
177	The present status of the density-functional theory of the liquid-solid transition. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 2111-2126.	0.7	123
178	Nonlinear diffusion and density functional theory. <i>European Physical Journal B</i> , 1990, 78, 317-323.	0.6	39
179	Equilibrium vacancy concentration at melting: The density functional theory. <i>Chemical Physics Letters</i> , 1990, 169, 549-554.	1.2	1
180	Thermodynamically consistent models of phase-field type for the kinetic of phase transitions. <i>Physica D: Nonlinear Phenomena</i> , 1990, 43, 44-62.	1.3	549

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181	Spectral comparison principles for the Cahn-Hilliard and phase-field equations, and time scales for coarsening. <i>Physica D: Nonlinear Phenomena</i> , 1990, 43, 335-348.	1.3	75
182	Elastic constants of the hard-sphere glass: a density functional approach. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 8477-8484.	0.7	33
183	Theory of freezing for quantum liquids. <i>Journal of Physics Condensed Matter</i> , 1990, 2, SA139-SA142.	0.7	6
184	Nonperturbative density-functional theories of classical nonuniform systems. <i>Physical Review A</i> , 1990, 41, 6647-6661.	1.0	103
185	Reply to "Comment on 'Modified weighted-density-functional theory of nonuniform classical liquids'" "â€™â€™. <i>Physical Review A</i> , 1990, 41, 2224-2226.	1.0	11
186	Comparison of melting in three and two dimensions: Microscopy of colloidal spheres. <i>Physical Review B</i> , 1990, 42, 688-703.	1.1	172
187	Density-functional theory of freezing for quantum systems: The Wigner crystallization. <i>Physical Review Letters</i> , 1990, 64, 303-306.	2.9	56
188	Can the thermodynamic properties of a solid be mapped onto those of a liquid?. <i>Physical Review Letters</i> , 1990, 64, 761-763.	2.9	81
189	Freezing of a quantum hard-sphere liquid at zero temperature: A density-functional approach. <i>Physical Review Letters</i> , 1990, 64, 1529-1532.	2.9	29
190	Density functional theory of vacancies. <i>Journal of Chemical Physics</i> , 1990, 93, 4281-4289.	1.2	15
191	Free-energy model for the inhomogeneous hard-sphere fluid: "Closure" relation between generating functionals for "direct" and "cavity" distribution functions. <i>Journal of Chemical Physics</i> , 1990, 93, 424305-4311.	1.2	42
192	Convergence rate of the excess-free-energy functional expansion of a solid about a coexisting liquid. <i>Physical Review A</i> , 1990, 42, 2434-2437.	1.0	7
193	Diatomic intercalation in lamellar graphite compounds. <i>Physical Review B</i> , 1990, 42, 8173-8178.	1.1	3
194	Freezing of soft spheres: A critical test for weighted-density-functional theories. <i>Physical Review A</i> , 1990, 42, 4810-4819.	1.0	75
195	Microemulsions: A Landau-Ginzburg theory. <i>Physical Review Letters</i> , 1990, 65, 2736-2739.	2.9	37
196	Monte Carlo study of fluid-plastic crystal coexistence in hard dumbbells. <i>Journal of Chemical Physics</i> , 1990, 93, 1278-1286.	1.2	54
197	Solidification instability of quantum fluids. <i>Physical Review B</i> , 1990, 41, 796-798.	1.1	16
198	Kinetic theory of transport in a hard sphere crystal. <i>Journal of Chemical Physics</i> , 1990, 92, 3768-3780.	1.2	34

#	ARTICLE	IF	CITATIONS
199	Weighted-density-functional theory of nonuniform fluid mixtures: Application to freezing of binary hard-sphere mixtures. <i>Physical Review A</i> , 1990, 42, 7312-7329.	1.0	134
200	Freezing of simple systems using density functional theory. <i>Journal of Chemical Physics</i> , 1990, 93, 5187-5193.	1.2	48
201	Density functional theory of freezing for quantum systems. I. Path integral formulation of general theory. <i>Journal of Chemical Physics</i> , 1990, 92, 3034-3039.	1.2	30
202	A density functional theory of polymer phase transitions and interfaces. II. Block copolymers. <i>Journal of Chemical Physics</i> , 1990, 93, 9130-9144.	1.2	5
203	A density functional theory of polymer phase transitions and interfaces. <i>Journal of Chemical Physics</i> , 1990, 92, 1413-1426.	1.2	71
204	From the bulk to clusters: Solid-liquid phase transitions and precursor effects. <i>Phase Transitions</i> , 1990, 24-26, 283-342.	0.6	38
205	Free-energy model for the inhomogeneous hard-sphere fluid in D dimensions: Structure factors for the hard-disk ($D=2$) mixtures in simple explicit form. <i>Physical Review A</i> , 1990, 42, 5978-5989.	1.0	166
206	Applications of modified weighted density functional theory: Freezing of simple liquids. <i>Journal of Chemical Physics</i> , 1990, 93, 2692-2700.	1.2	38
207	Theory of freezing. <i>Journal of Non-Crystalline Solids</i> , 1990, 117-118, 852-861.	1.5	3
208	Theory of freezing for quantum systems. <i>Journal of Non-Crystalline Solids</i> , 1990, 117-118, 871-874.	1.5	0
209	Dynamical extension of the density functional theory. <i>Journal of Non-Crystalline Solids</i> , 1990, 117-118, 875-878.	1.5	4
210	Density functional theory of the freezing of the hard-core Yukawa fluid. <i>Journal of Non-Crystalline Solids</i> , 1990, 117-118, 894-897.	1.5	1
211	Crystal Nucleation in Liquids and Glasses. <i>Solid State Physics</i> , 1991, 45, 75-177.	1.3	646
212	Solid-liquid coexistence in hard-core Yukawa systems. <i>Journal of Chemical Physics</i> , 1991, 94, 541-550.	1.2	8
213	Diffusion disallowed crystal growth. I. Landau-Ginzburg model. <i>Journal of Chemical Physics</i> , 1991, 94, 2176-2186.	1.2	30
214	A molecular theory of melting. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 175, 473-484.	1.2	4
215	Statistical mechanical theories of freezing: Where do we stand?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 176, 28-36.	1.2	6
216	Density-functional theory of freezing and properties of the ordered phase. <i>Physics Reports</i> , 1991, 207, 351-444.	10.3	327

#	ARTICLE	IF	CITATIONS
217	Polymer crystallization: density functional theory and application to polyethylene. <i>Chemical Physics Letters</i> , 1991, 179, 374-378.	1.2	7
218	Phonon Dispersion Curves in High-Temperature Solids from Liquid Structure Factors. <i>Europhysics Letters</i> , 1991, 14, 797-802.	0.7	17
219	Theory of Freezing for Quantum Fluids: Crystallization of ^4He at Zero Temperature. <i>Europhysics Letters</i> , 1991, 16, 373-378.	0.7	16
220	Freezing of a quantum hard-sphere liquid at zero temperature: a density-functional approach. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 593-607.	0.7	13
221	Freezing of liquid alkali metals as screened ionic plasmas. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 1627-1636.	0.7	5
222	Density functional approach to phonon dispersion relations and elastic constants of high-temperature crystals. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 9943-9963.	0.7	11
223	Nonlocal contributions to the thermodynamics of inhomogeneous homopolymer-solvent systems. <i>Journal of Chemical Physics</i> , 1991, 95, 8507-8520.	1.2	9
224	Renormalized-density-functional theories for nonuniform classical fluids. <i>Physical Review A</i> , 1991, 43, 4328-4333.	1.0	3
225	Density-functional theory of the nematic phase: Results for a system of hard ellipsoids of revolution. <i>Physical Review A</i> , 1991, 44, 3718-3731.	1.0	47
226	Ability of nonperturbative density-functional theories to stabilize arbitrary solids. <i>Physical Review A</i> , 1991, 44, 8141-8145.	1.0	18
227	Phonon dispersion of crystalline solids from the density-functional theory of freezing. <i>Physical Review B</i> , 1991, 44, 9944-9966.	1.1	17
228	Reformulation of nonperturbative density-functional theories of classical nonuniform systems. <i>Physical Review A</i> , 1991, 43, 4124-4130.	1.0	9
229	Mapping a solid onto an "effective liquid". <i>Physical Review A</i> , 1991, 43, 5424-5428.	1.0	21
230	Freezing of the vortex liquid in high- T_c superconductors: A density-functional approach. <i>Physical Review Letters</i> , 1991, 67, 3444-3447.	2.9	87
231	Density-functional approach to the structure of classical uniform fluids. <i>Physical Review A</i> , 1991, 44, 1219-1227.	1.0	45
232	The relaxation spectrum and diffusion in concentrated systems of spherical particles. <i>Journal of Chemical Physics</i> , 1991, 95, 6124-6135.	1.2	7
233	Crystallization of polyethylene and polytetrafluoroethylene by density-functional methods. <i>Journal of Chemical Physics</i> , 1991, 95, 9348-9366.	1.2	45
234	Strong-coupling theory of hydrogen plasmas. <i>Physical Review A</i> , 1991, 43, 3057-3065.	1.0	13

#	ARTICLE	IF	CITATIONS
235	Density-functional theory for classical fluids and solids. <i>Physical Review A</i> , 1991, 43, 4355-4364.	1.0	13
236	Free energy functional expansion for inhomogeneous polymer blends. <i>Journal of Chemical Physics</i> , 1991, 94, 1572-1583.	1.2	77
237	Weighted-density-functional theories for the freezing of jellium. <i>Physical Review B</i> , 1991, 44, 9864-9876.	1.1	29
238	Hexagonal and nematic phases of chains. II. Phase transitions. <i>Physical Review A</i> , 1991, 43, 2922-2931.	1.0	60
239	Theory of liquid-bcc-fcc coexistence in charge-stabilized colloidal systems. <i>Physical Review A</i> , 1991, 44, 1233-1236.	1.0	29
240	Structural Ordering in Colloidal Suspensions. <i>Solid State Physics</i> , 1991, , 1-73.	1.3	103
241	Freezing of Liquid Helium at Zero Temperature: A Density Functional Approach. <i>Europhysics Letters</i> , 1991, 16, 205-210.	0.7	15
242	Density Functional Theory of Magnetization-Driven Phase Transitions in Fluids with Internal Quantum States. <i>Europhysics Letters</i> , 1992, 20, 383-388.	0.7	22
243	Glass Transition in the Density Functional Theory of Freezing. <i>Europhysics Letters</i> , 1992, 20, 131-136.	0.7	60
244	Freezing of the classical one-component plasma: analyses of the non-perturbative density-functional theories. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 5493-5508.	0.7	6
245	Phase Separation in Binary Nearly-Hard-Sphere Colloids: Evidence for the Depletion Force. <i>Europhysics Letters</i> , 1992, 18, 107-110.	0.7	85
246	Self-consistent theory of freezing of the classical one-component plasma. <i>Physical Review Letters</i> , 1992, 69, 316-319.	2.9	40
247	Shear-flow enhancement and suppression of fluctuations in smectic liquid crystals. <i>Physical Review A</i> , 1992, 45, 994-1008.	1.0	79
248	A modified superposition approximation to the three-body distribution function. <i>Journal of Chemical Physics</i> , 1992, 97, 5142-5147.	1.2	14
249	Isotropic-nematic transition of D-dimensional hard convex bodies within the effective-liquid approach. <i>Physical Review A</i> , 1992, 45, 7395-7412.	1.0	8
250	Density Functional Theory of Liquid Crystal Phases. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 212, 61-75.	0.3	5
251	Liquid-solid transition in the bond-particle model for elemental semiconductors. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992, 65, 921-932.	0.6	2
252	Phase transitions in lyotropic colloidal and polymer liquid crystals. <i>Reports on Progress in Physics</i> , 1992, 55, 1241-1309.	8.1	726

#	ARTICLE	IF	CITATIONS
253	Melting of colloidal crystals: A Monte Carlo study. Journal of Chemical Physics, 1992, 96, 6873-6879.	1.2	20
254	Weighted-density-functional theory calculation of elastic constants for face-centered-cubic and body-centered-cubic hard-sphere crystals. Journal of Chemical Physics, 1992, 97, 2699-2704.	1.2	24
255	Hysteresis as rate competition: a Landau model example. Physica A: Statistical Mechanics and Its Applications, 1992, 186, 220-230.	1.2	11
256	Search for a thermodynamic basis for the glass transition. Physica A: Statistical Mechanics and Its Applications, 1992, 186, 314-326.	1.2	29
257	Density-functional theory of melting of clusters and films. Physical Review B, 1992, 46, 4233-4240.	1.1	2
258	Solvation, freezing, and the crystal/liquid interface: modern theories and computer simulation. Fluid Phase Equilibria, 1993, 83, 415-426.	1.4	3
259	Langevin dynamic simulation of hysteresis in a field-swept Landau potential. Journal of Statistical Physics, 1993, 73, 123-145.	0.5	11
260	Model for density-functional thermodynamic perturbation analysis of Lennard-Jones solids. Physical Review E, 1993, 47, 427-438.	0.8	21
261	Perturbation weighted-density approximation: The phase diagram of a Lennard-Jones system. Physical Review E, 1993, 47, 4284-4288.	0.8	42
262	Nonlinear hydrodynamics of a hard-sphere fluid near the glass transition. Physical Review E, 1993, 48, 1787-1798.	0.8	38
263	Lattice-gas analog of density-functional theory: Application to ordering transitions. Physical Review E, 1993, 48, 2521-2527.	0.8	25
264	Locating liquid-solid transitions in computer simulations based on local structure analysis. Journal of Physics Condensed Matter, 1993, 5, 8509-8522.	0.7	17
265	Density Distribution in a Hard-Sphere Crystal. Europhysics Letters, 1993, 22, 245-249.	0.7	54
266	Herringbone Orientational Transition in Monolayer N ₂ Adsorbed on Graphite by Density Functional Theory. Europhysics Letters, 1993, 24, 13-19.	0.7	5
267	Orientational order in simple dipolar fluids: Density-functional theory and absolute-stability conditions. Physical Review E, 1993, 47, 506-512.	0.8	71
268	Weighted-density-functional theory of nonuniform ionic fluids: Application to electric double layers. Physical Review E, 1993, 47, 4088-4097.	0.8	55
269	Density-functional theory of nonuniform classical liquids: An extended modified weighted-density approximation. Journal of Chemical Physics, 1993, 99, 9090-9102.	1.2	26
270	Density fluctuations during crystallization of colloids. Physical Review E, 1993, 48, 3766-3777.	0.8	157

#	ARTICLE	IF	CITATIONS
271	Self-Consistent Theory of Freezing of Systems Interacting through Long-Ranged Potentials. Journal of the Physical Society of Japan, 1993, 62, 4316-4330.	0.7	7
272	Crystallization of Dense Binary Ionic Mixtures Application to White Dwarf Cooling Theory. International Astronomical Union Colloquium, 1994, 147, 126-143.	0.1	0
273	Langevin simulation of the dynamics of a dense hard sphere liquid. Phase Transitions, 1994, 50, 47-61.	0.6	5
274	Hard Ellipsoids in an Anisotropic Mean Field: Surface Effects on the Isotropic-Nematic Phase Transition. Molecular Crystals and Liquid Crystals, 1994, 239, 95-105.	0.3	1
275	N ₂ monolayers physisorbed on graphite: the herringbone transition revisited. Molecular Physics, 1994, 83, 31-62.	0.8	18
276	Phase transitions in polymer blends and block copolymer melts: Some recent developments. , 1994, , 181-299.		289
277	Glass transition: A unified treatment. Journal of Materials Research, 1994, 9, 1908-1916.	1.2	16
278	Shear-Induced Melting and Reentrance: A Model. Physical Review Letters, 1994, 73, 1043-1046.	2.9	14
279	Hard-sphere quasicrystals. Physical Review B, 1994, 49, 15600-15606.	1.1	12
280	The microscopic dynamics of freezing in supercooled colloidal fluids. Journal of Chemical Physics, 1994, 100, 9088-9095.	1.2	122
281	Effects of pinning disorder on the correlations and freezing of the flux liquid in layered superconductors. Physical Review Letters, 1994, 73, 1023-1026.	2.9	51
282	Density-Functional Theory of Freezing of Vortex Liquid in Quasi-Two-Dimensional Superconductors. Physical Review Letters, 1994, 73, 484-487.	2.9	24
283	Universal self-diffusion and subdiffusion in colloids at freezing. Physical Review Letters, 1994, 73, 360-363.	2.9	41
284	Time-dependent density-functional theory with H theorems. Physical Review E, 1994, 50, 2347-2350.	0.8	30
285	Density Functional Theory of Laser-Induced Freezing in Colloidal Suspensions. Physical Review Letters, 1994, 73, 2923-2926.	2.9	64
286	Interfacial properties in lattice gases: A density functional approach. Physical Review E, 1994, 50, 4744-4749.	0.8	13
287	Supercooling of surface-modified phases. Physical Review E, 1994, 49, 4306-4321.	0.8	6
288	Two distinct time scales in the dynamics of a dense hard-sphere liquid. Physical Review E, 1994, 50, 3916-3924.	0.8	15

#	ARTICLE	IF	CITATIONS
289	Statistical mechanics of flux lines in oxide superconductors. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 140-153.	1.2	0
290	Stochastic model of slow dynamics in supercooled liquids and dense colloidal suspensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 208, 35-64.	1.2	174
291	Melting, freezing and colloidal suspensions. <i>Physics Reports</i> , 1994, 237, 249-324.	10.8	525
292	Freezing of the vortex liquid in the high-Tc superconductors. <i>Solid State Communications</i> , 1994, 90, 479-482.	0.9	5
293	PRISM theory of the structure, thermodynamics, and phase transitions of polymer liquids and alloys. , 1994, , 319-377.		220
294	Vibrational and elastic properties of the hot solid related to the static and dynamic structure of the liquid within density functional theory. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 69, 833-848.	0.6	9
295	Density-Functional Theory of Nematics Near Surfaces. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 257, 131-140.	0.3	0
296	Freezing of Systems Interacting through Inverse-Power Potentials. <i>Journal of the Physical Society of Japan</i> , 1994, 63, 2215-2224.	0.7	7
297	Liquid-solid transition in quantal systems. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 69, 957-964.	0.6	1
298	Freezing of the Hard Spheres: Re-Examination of the Weighted-Density-Functional Theories. <i>Journal of the Physical Society of Japan</i> , 1995, 64, 4242-4247.	0.7	4
299	Antiferromagnetic ordering in a two-dimensional electron liquid. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 791-799.	1.0	0
300	Density functional theory of polymer-polymer phase separation behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 2307-2317.	2.4	11
301	Density functional theory of solution dynamics. <i>Journal of Molecular Liquids</i> , 1995, 65-66, 131-138.	2.3	1
302	Structural Glass Transition and the Entropy of the Metastable States. <i>Physical Review Letters</i> , 1995, 75, 2847-2850.	2.9	387
303	Thermodynamic Perturbation Approach to Freezing of the Classical One-Component Plasma. <i>Journal of the Physical Society of Japan</i> , 1995, 64, 4248-4257.	0.7	5
304	Metastable dynamics of the hard-sphere system. <i>Physical Review E</i> , 1995, 52, 853-861.	0.8	21
305	Density functional theory of ordering in charge-stabilized colloidal dispersions. <i>Physical Review E</i> , 1995, 51, 4503-4508.	0.8	24
306	Density-functional theory of Wigner crystallization in two dimensions. <i>Physical Review B</i> , 1995, 51, 2588-2591.	1.1	17

#	ARTICLE	IF	CITATIONS
307	Microscopic Structure and Intermolecular Potential in Liquid Deuterium. Physical Review Letters, 1995, 75, 1779-1782.	2.9	51
308	Local order and diffusive motions in simple liquids. Journal of Chemical Physics, 1995, 102, 2864-2870.	1.2	2
309	Density-functional approach to the equation of state of a hard-sphere crystal. Physical Review E, 1995, 51, 65-73.	0.8	28
310	Numerical studies of langevin equations for the dynamics of a dense hard sphere fluid. Transport Theory and Statistical Physics, 1995, 24, 1199-1225.	0.4	7
311	Mode coupling in critical phenomena and supercooled liquids. Transport Theory and Statistical Physics, 1995, 24, 755-779.	0.4	21
312	Density functional theory of solution dynamics. Studies in Physical and Theoretical Chemistry, 1995, 83, 131-138.	0.0	0
313	Solid-fluid transition and interfaces with density functional approaches. Surface Science, 1995, 331-333, 989-994.	0.8	48
314	Two-stage melting in two dimensions: First-principles approach. Physical Review B, 1995, 51, 8789-8794.	1.1	78
315	Orientalional relaxation in dipolar systems: How much do we understand the role of correlations?. International Reviews in Physical Chemistry, 1995, 14, 271-314.	0.9	35
316	Collective effects in condensed conducting phases including low-dimensional systems. Advances in Physics, 1995, 44, 299-386.	35.9	32
317	Two-stage melting in two dimensions in a system with dipole interactions. Physical Review B, 1995, 51, 5746-5759.	1.1	32
318	Chapter 55 The Role of Dislocations in Melting. Dislocations in Solids, 1996, 10, 505-594.	1.6	1
319	VIDEO MICROSCOPY OF MONODISPERSE COLLOIDAL SYSTEMS. Annual Review of Physical Chemistry, 1996, 47, 421-462.	4.8	123
320	On the low-dimensional solids and their melting. Synthetic Metals, 1996, 79, 253-257.	2.1	4
321	Density functional theory in the classical domain**Supported in part by grants from NSF and NASA. Theoretical and Computational Chemistry, 1996, , 151-203.	0.2	4
322	Close-packed configurations, 'symmetry breaking', and the freezing transition in density functional theory. Journal of Physics Condensed Matter, 1996, 8, L795-L801.	0.7	20
323	Time-dependent density functional theory in lattice gas problems. Journal of Chemical Physics, 1996, 104, 5234-5239.	1.2	23
324	bcc Symmetry in the Crystal-Melt Interface of Lennard-Jones Fluids Examined through Density Functional Theory. Physical Review Letters, 1996, 77, 3585-3588.	2.9	109

#	ARTICLE	IF	CITATIONS
325	Integral equation theory description of phase equilibria in classical fluids. <i>Physics Reports</i> , 1996, 274, 1-105.	10.3	238
326	Phase transitions and quantum effects in adsorbed monolayers. <i>International Journal of Thermophysics</i> , 1996, 17, 157-167.	1.0	12
327	Some novel states of colloidal matter: modulated liquid, modulated crystal and glass. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 34-47.	1.2	3
328	Nonequilibrium phase transitions in sheared colloids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 84-92.	1.2	3
329	The freezing transition as a symmetry breaking phenomenon. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 232, 74-93.	1.2	2
330	Density functional theory for the phase diagram of rigid C ₆₀ molecules. <i>Physical Review E</i> , 1996, 54, 3928-3932.	0.8	23
331	Density-functional theory for the freezing of Stockmayer fluids. <i>Physical Review E</i> , 1996, 54, 1687-1697.	0.8	40
332	Supercooling of surface modified liquids. <i>Physical Review E</i> , 1996, 53, R45-R48.	0.8	10
333	Structure factor of compressed liquid deuterium close to the melting transition. <i>Physical Review E</i> , 1996, 54, 2773-2779.	0.8	16
334	Density-functional theory of flux-lattice melting in high-T _c superconductors. <i>Physical Review B</i> , 1996, 54, 16192-16205.	1.1	38
335	Time scales for transitions between free-energy minima of a dense hard-sphere system. <i>Physical Review E</i> , 1996, 53, 2603-2612.	0.8	21
336	Decorated lattice models for surface phase transitions. <i>Molecular Physics</i> , 1996, 88, 1541-1561.	0.8	2
337	A tentative replica study of the glass transition. <i>Journal of Physics A</i> , 1996, 29, 6515-6524.	1.6	97
338	Melting of the flux line lattice. <i>Superconductor Science and Technology</i> , 1996, 9, 713-727.	1.8	21
339	Density functional approaches to the dynamics of phase transitions. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 9657-9661.	0.7	9
340	Density-functional theory of freezing of quantum liquids at zero temperature using exact liquid-state linear response. <i>Physical Review B</i> , 1997, 55, 8867-8880.	1.1	18
341	Perturbative density functional theory for phase transitions in a two-dimensional antiferromagnetic fluid. <i>Physical Review E</i> , 1997, 55, 3754-3757.	0.8	4
342	Debye-Waller factor in solid ⁴ He crystals. <i>Physical Review B</i> , 1997, 55, 5767-5771.	1.1	28

#	ARTICLE	IF	CITATIONS
343	Two-dimensional density-functional approach to the Abrikosov vortex lattice melting. <i>Physical Review B</i> , 1997, 56, 9122-9128.	1.1	0
344	Class transition in the hard sphere system. , 1997, , 100-110.		0
345	A partitioned density functional theory of freezing: application to soft spheres. <i>Molecular Physics</i> , 1997, 90, 951-958.	0.8	15
346	Phase transitions in dipolar fluids: An integral equation study. <i>Journal of Chemical Physics</i> , 1997, 106, 9742-9761.	1.2	71
347	Density-functional theory of quantum freezing: sensitivity to liquid-state structure and statistics. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 4061-4080.	0.7	6
348	Path integral formulation of dynamical density functional equation for dense fluids. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 103, 423-431.	1.1	46
349	Mesoscopic kinetic equation and mode coupling for supercooled molecular liquid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 243, 25-36.	1.2	15
350	Microscopic Analyses of the Dynamical Density Functional Equation of Dense Fluids. <i>Journal of Statistical Physics</i> , 1998, 93, 527-546.	0.5	41
351	Universal resistance jump of vortices at the melting transition. <i>Solid State Communications</i> , 1998, 107, 401-405.	0.9	2
352	Pair correlations and electrical transport in classical ionic assemblies and metallic plasmas including H and D. <i>Plasmas & Ions</i> , 1998, 1, 13-22.	0.3	1
353	An attempt to go beyond the current mode coupling theories of supercooled liquids and glass transitions. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 57-65.	1.5	10
354	Dynamics and Microstructure Formation during Nucleation of Lysozyme Solutions. <i>Journal of the American Chemical Society</i> , 1998, 120, 5539-5548.	6.6	33
355	Nucleation in oxide glasses: comparison of theory and experiment. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1998, 454, 1745-1766.	1.0	26
356	Phenomenological description of the crystal-liquid crystal phase diagram. <i>Liquid Crystals</i> , 1998, 25, 621-630.	0.9	0
357	Structural precursor to freezing in the hard-disk and hard-sphere systems. <i>Physical Review E</i> , 1998, 58, 3083-3088.	0.8	147
358	Surface and bulk ordering in thin films. <i>Europhysics Letters</i> , 1998, 42, 61-66.	0.7	20
359	Wigner crystallization in semiconductor quantum wires. <i>Physical Review B</i> , 1998, 58, 9886-9889.	1.1	20
360	Structure and magnetization of a two-dimensional vortex liquid in the presence of strong pinning. <i>Physical Review B</i> , 1998, 57, 11730-11737.	1.1	11

#	ARTICLE	IF	CITATIONS
361	Experimental Study of Laser-Induced Melting in Two-Dimensional Colloids. <i>Physical Review Letters</i> , 1998, 81, 2606-2609.	2.9	160
362	Entropic origin of the growth of relaxation times in simple glassy liquids. <i>Physical Review E</i> , 1998, 58, 801-804.	0.8	14
363	Crystallization of dipolar hard spheres: Density functional results. <i>Journal of Chemical Physics</i> , 1998, 109, 1062-1069.	1.2	22
364	Modified weighted density-functional approach to the crystal-melt interface. <i>Physical Review E</i> , 1998, 57, 1939-1945.	0.8	13
365	Melting of hard cubes. <i>Physical Review E</i> , 1998, 58, 4701-4705.	0.8	24
366	Early Stage of Slow Dynamics in Dynamical Density Functional Theory of a Hard-Sphere Liquid near the Glass Transition. <i>Journal of the Physical Society of Japan</i> , 1998, 67, 1505-1508.	0.7	14
367	Free energy landscape of a dense hard-sphere system. <i>Physical Review E</i> , 1999, 59, 3123-3134.	0.8	32
368	Phase behavior of aligned dipolar hard spheres: Integral equations and density functional results. <i>Physical Review E</i> , 1999, 60, 3183-3198.	0.8	34
369	Crystallization of power-law fluids: A modified weighted density approximation model with a solid reference state. <i>Journal of Chemical Physics</i> , 1999, 110, 2522-2528.	1.2	17
370	Structure of electric double layers: A simple weighted density functional approach. <i>Journal of Chemical Physics</i> , 1999, 111, 9832-9838.	1.2	32
371	Generalized density-functional theory: Extended weighted density approaches. <i>Physical Review E</i> , 1999, 60, 2875-2886.	0.8	11
372	Muon-spin rotation spectra in the mixed phase of high-T _c superconductors: Thermal fluctuations and disorder effects. <i>Physical Review B</i> , 1999, 60, 7607-7622.	1.1	13
373	Dynamical density functional approach to supercooled liquid and glass transition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 400-412.	1.2	12
374	Equation of state of the hard-sphere solid: The modified weighted-density approximation with a static solid reference state. <i>Physical Review E</i> , 1999, 59, 3964-3969.	0.8	7
375	Structure of binary hard-sphere mixtures near a hard wall: A simple weighted-density-functional approach. <i>Journal of Chemical Physics</i> , 1999, 111, 6573-6578.	1.2	25
376	Density Functional Theory for the Distribution of Small Ions around Polyions. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6080-6087.	1.2	77
377	Field theoretical representation of the Hohenberg-Kohn free energy for fluids. <i>Physical Review E</i> , 1999, 60, R5048-R5051.	0.8	18
378	Calculating Phase Diagrams of Polymer-Platelet Mixtures Using Density Functional Theory: Implications for Polymer/Clay Composites. <i>Macromolecules</i> , 1999, 32, 5681-5688.	2.2	124

#	ARTICLE	IF	CITATIONS
379	Dynamic density functional theory of fluids. <i>Journal of Chemical Physics</i> , 1999, 110, 8032-8044.	1.2	550
380	Non-classical theory of crystal nucleation: application to oxide glasses: review. <i>Journal of Non-Crystalline Solids</i> , 1999, 253, 210-230.	1.5	26
381	Calculating Phase Diagrams of Polymer-Clay Mixtures by Combining Density Functional and Self-Consistent Field Theory. <i>Materials Research Society Symposia Proceedings</i> , 1999, 576, 143.	0.1	0
382	Phase transitions in liquid crystals. <i>Physics Reports</i> , 2000, 324, 107-269.	10.3	270
383	Genesis, selected applications, and future prospects of the mode coupling theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 281, 348-360.	1.2	5
384	Crystallization of hard spheres under gravity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 287, 100-104.	1.2	15
385	Radial Distribution Function of a Hard-Sphere Fluid. <i>Journal of Structural Chemistry</i> , 2000, 41, 809-824.	0.3	6
386	Density Functional for Hard Sphere Crystals: A Fundamental Measure Approach. <i>Physical Review Letters</i> , 2000, 84, 694-697.	2.9	241
387	How to break the replica symmetry in structural glasses. <i>Europhysics Letters</i> , 2000, 49, 162-168.	0.7	1
388	Phase diagram of a classical fluid in a quenched random potential. <i>Europhysics Letters</i> , 2000, 50, 54-60.	0.7	19
389	Free-energy landscape of simple liquids near the glass transition. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 6553-6562.	0.7	14
390	Crystallization of dipolar spheres: A discussion of second-order density functional theory. <i>Journal of Chemical Physics</i> , 2000, 112, 10949-10956.	1.2	14
391	Phase diagram of a hard-sphere system in a quenched random potential: A numerical study. <i>Physical Review E</i> , 2000, 62, 3648-3658.	0.8	11
392	Hard-sphere solids near close packing: Testing theories for crystallization. <i>Physical Review E</i> , 2000, 61, 3811-3822.	0.8	30
393	Density-functional theory for vacancies in hard-sphere crystals. <i>Physical Review E</i> , 2000, 61, 5218-5222.	0.8	18
394	Freezing transition of the vortex liquid in anisotropic superconductors. <i>Physical Review B</i> , 2000, 61, 784-790.	1.1	12
395	High-order direct correlation functions of uniform fluids and their application to the high-order perturbative density functional theory. <i>Physical Review E</i> , 2000, 61, 2704-2711.	0.8	54
396	Density correlations in lattice gases in contact with a confining wall. <i>Physical Review E</i> , 2000, 61, 422-428.	0.8	8

#	ARTICLE	IF	CITATIONS
397	Theoretical methods dealing with slow dynamics. Journal of Physics Condensed Matter, 2000, 12, 6343-6351.	0.7	14
398	Theoretical Phase Diagrams of Polymer/Clay Composites: The Role of Grafted Organic Modifiers. Macromolecules, 2000, 33, 1089-1099.	2.2	187
399	Phase Separation By Nucleation and Ly Spinodal Decomposition: Fundamentals. , 2000, , 123-166.		11
400	Density-functional study of homogeneous bubble nucleation in the stretched Lennard-Jones fluid. Journal of Chemical Physics, 2001, 114, 4149-4159.	1.2	75
401	A method to incorporate the radial distribution function of bulk fluid into the density functional approximation. Journal of Chemical Physics, 2001, 115, 2212-2218.	1.2	24
402	Density Functional Theory Based on the Universality Principle and Third-Order Expansion Approximation for Adhesive Hard-Sphere Fluid near Surfaces. Journal of Physical Chemistry B, 2001, 105, 10360-10366.	1.2	15
403	Maximizing Entropy by Minimizing Area: Towards a New Principle of Self-Organization. Journal of Physical Chemistry B, 2001, 105, 10147-10158.	1.2	244
404	Adsorption of Lennard-Jones fluid mixture in a planar slit: A perturbative density functional approach. Physical Review E, 2001, 64, 021206.	0.8	22
405	Effective interactions in soft condensed matter physics. Physics Reports, 2001, 348, 267-439.	10.3	1,011
406	A thermodynamically self-consistent statistical theory of the crystalline state. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 195-224.	1.2	6
407	High-Order Perturbative Density Functional Theory for Nonuniform Fluids with an Attractive Tail near Surfaces. Journal of Colloid and Interface Science, 2001, 242, 152-157.	5.0	8
408	Stability of amorphous structures with voids. Journal of Physics Condensed Matter, 2001, 13, 7259-7269.	0.7	4
409	Freezing and orientational order in weakly anisotropic fluids. Physical Review E, 2001, 63, 051501.	0.8	3
410	Reformulation of density functional theory for generation of the nonuniform density distribution. Physical Review E, 2001, 63, 061206.	0.8	26
411	Vortex Lattice Melting in Layered Superconductors with Periodic Columnar Pins. Physical Review Letters, 2001, 87, 257002.	2.9	9
412	Unbiased density functional solutions of freezing in binary mixtures of hard or soft spheres. Journal of Chemical Physics, 2001, 115, 5213-5219.	1.2	5
413	Heterogeneous relaxation in supercooled liquids: A density functional theory analysis. Journal of Chemical Physics, 2001, 115, 5513-5520.	1.2	4
414	Density-functional theory of the crystallization of hard polymeric chains. Journal of Chemical Physics, 2001, 115, 7744-7752.	1.2	17

#	ARTICLE	IF	CITATIONS
415	Classical density functional theory of freezing in simple fluids: Numerically induced false solutions. <i>Physical Review E</i> , 2001, 64, 062501.	0.8	3
416	Transformation from Rogers-Young approximation to the density functional approach for nonuniform fluids: Numerical recipe. <i>Physical Review E</i> , 2001, 63, 051203.	0.8	20
417	Heterogeneities in Supercooled Liquids: A Density-Functional Study. <i>Physical Review Letters</i> , 2001, 86, 2062-2065.	2.9	49
418	Model for glass transition in a binary fluid from a mode coupling approach. <i>Physical Review E</i> , 2002, 65, 036138.	0.8	22
419	Sedimentation equilibrium of a suspension of adhesive colloidal particles in a planar slit: A density functional approach. <i>Journal of Chemical Physics</i> , 2002, 116, 384.	1.2	11
420	Self-consistent theory of orientational order and fluid-solid equilibria in weakly anisotropic fluids. <i>Journal of Chemical Physics</i> , 2002, 116, 4587-4596.	1.2	3
421	A self-consistent weighted-density-functional approach to the structure of simple fluids. <i>Journal of Chemical Physics</i> , 2002, 116, 9845-9849.	1.2	6
422	Structure of nonuniform fluid mixtures: A self-consistent density-functional approach. <i>Journal of Chemical Physics</i> , 2002, 117, 8933-8937.	1.2	19
423	Phase behavior of type-II superconductors with quenched point pinning disorder: A phenomenological proposal. <i>Physical Review B</i> , 2002, 65, .	1.1	58
424	Metastable structures with modified weighted density-functional theory. <i>Physical Review E</i> , 2002, 65, 026123.	0.8	20
425	A comparison of some variational formulas for the free energy as applied to hard-sphere crystals. <i>Journal of Chemical Physics</i> , 2002, 117, 9111-9115.	1.2	3
426	Vortices in layered superconductors with columnar pins: A density-functional study. <i>Physical Review B</i> , 2002, 66, .	1.1	17
427	Dynamical density functional theory for glassy behaviour. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12203-12222.	0.7	17
428	A dynamic mean-field glass model with reversible mode coupling and a trivial Hamiltonian. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 2265-2273.	0.7	13
429	Density functional theory of inhomogeneous classical fluids: recent developments and new perspectives. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 11897-11905.	0.7	94
430	Stick-slip friction and nucleation dynamics of ultrathin liquid films. <i>Physical Review B</i> , 2002, 65, .	1.1	47
431	Formally 'exact' first-order Taylor series expansion for density functional theory. <i>New Journal of Physics</i> , 2002, 4, 36-36.	1.2	40
432	Density functional theory applied to metallic hydrogen: pair correlations and phase transitions. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 9109-9120.	0.7	6

#	ARTICLE	IF	CITATIONS
433	A new approach for studying nucleation phenomena using molecular simulations: Application to CO ₂ hydrate clathrates. <i>Journal of Chemical Physics</i> , 2002, 117, 1786-1796.	1.2	268
434	Combining quantum and classical density functional theory for ion-electron mixtures. <i>Journal of Non-Crystalline Solids</i> , 2002, 312-314, 60-68.	1.5	8
435	Density Functional Theory and Materials Modeling at Atomistic Length Scales. <i>International Journal of Molecular Sciences</i> , 2002, 3, 260-275.	1.8	4
436	Fundamental measure theory and dimensional interpolation for the hard spheres fluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 306, 243-250.	1.2	57
437	A thermodynamically self-consistent quantum statistical theory of the crystalline state. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 310, 39-66.	1.2	6
438	Understanding glassy dynamics from the free-energy landscape. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 315, 299-301.	1.2	1
439	Density Functional Methods in the Statistical Mechanics of Materials. <i>Annual Review of Materials Research</i> , 2002, 32, 39-52.	4.3	82
440	Title is missing!. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2002, 130, 101-110.	0.3	24
441	Three-body hypernetted-chain equation and its numerical solution. <i>Journal of Chemical Physics</i> , 2002, 117, 277-281.	1.2	2
443	Glass transition of hard sphere systems: Molecular dynamics and density functional theory. <i>Physical Review E</i> , 2003, 68, 021502.	0.8	36
444	Density-functional theory of a lattice-gas model with vapour, liquid, and solid phases. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 3931-3956.	0.7	13
445	Density functional theory and multiscale materials modeling. <i>Bulletin of Materials Science</i> , 2003, 26, 3-12.	0.8	5
446	Employing functional counterpart of Lagrangian theorem to improve on density functional theory for density profile of non-uniform fluids. <i>Chemical Physics</i> , 2003, 289, 309-319.	0.9	14
447	Atomistic and continuum modeling of dendritic solidification. <i>Materials Science and Engineering Reports</i> , 2003, 41, 121-163.	14.8	381
448	Quantum field theory of the liquid-glass transition. <i>Physics Reports</i> , 2003, 383, 1-94.	10.3	17
449	Description of far-from-equilibrium processes by mean-field lattice gas models. <i>Advances in Physics</i> , 2003, 52, 523-638.	35.9	85
450	Nucleation of Crystalline Phases of Water in Homogeneous and Inhomogeneous Environments. <i>Physical Review Letters</i> , 2003, 90, 158301.	2.9	50
451	Nucleation of Hexagonal Ice (Ih) in Liquid Water. <i>Journal of the American Chemical Society</i> , 2003, 125, 7743-7747.	6.6	107

#	ARTICLE	IF	CITATIONS
452	New Weighted Density Functional Theory Based on Perturbative Approach. Journal of Physical Chemistry B, 2003, 107, 7155-7161.	1.2	10
453	Crystal nucleation in simple and complex fluids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 419-428.	1.6	39
454	Mean-field theory of ice phase stability. Journal of Chemical Physics, 2003, 118, 7005-7011.	1.2	6
455	Comment on "Classical density functional theory of freezing in simple fluids: Numerically induced false solutions" Physical Review E, 2003, 67, 063501; author reply 063502.	0.8	3
456	Partitioned density functional approach for a Lennard-Jones fluid. Physical Review E, 2003, 68, 061201.	0.8	40
457	Weighted-density-functional approach to the structure of nonuniform fluids. Journal of Chemical Physics, 2003, 118, 8326-8330.	1.2	6
458	Two-Step Melting of the Vortex Solid in Layered Superconductors with Random Columnar Pins. Physical Review Letters, 2003, 91, 127002.	2.9	31
459	Density functional theory for the elastic moduli of a model polymeric solid. Journal of Chemical Physics, 2003, 118, 6594-6604.	1.2	4
460	Reply to "Comment on "Classical density functional theory of freezing in simple fluids: Numerically induced false solutions" Physical Review E, 2003, 67, .	0.8	1
461	EQUATION OF STATE AND FREEZING OF GMSA HARD SPHERES. International Journal of Modern Physics B, 2003, 17, 6057-6065.	1.0	6
462	A mesoscopic model of a two-dimensional solid state structural transformation: statics and dynamics. Journal of Physics Condensed Matter, 2004, 16, 7733-7752.	0.7	7
463	Melting and structure of the vortex solid in strongly anisotropic layered superconductors with random columnar pins. Physical Review B, 2004, 69, .	1.1	14
464	Structure of a soft-sphere fluid at a soft repulsive wall: A comparison of weighted density-functional theories. Physical Review E, 2004, 69, 051502.	0.8	2
465	Calculations of free energies in liquid and solid phases: Fundamental measure density-functional approach. Physical Review E, 2004, 69, 061113.	0.8	27
466	Solution of local-field equations for self-generated glasses. Physical Review B, 2004, 70, .	1.1	14
467	Negative Virial Coefficients and the Dominance of Loose Packed Diagrams for D-Dimensional Hard Spheres. Journal of Statistical Physics, 2004, 114, 1361-1392.	0.5	44
468	Surface effects on the pancake vortex phase diagram. Physica C: Superconductivity and Its Applications, 2004, 404, 119-122.	0.6	0
469	Perturbative density functional approximation in the view of weighted density concept and beyond. Chemical Physics Letters, 2004, 385, 208-213.	1.2	15

#	ARTICLE	IF	CITATIONS
470	PHASE DESCRIPTION IN POLAR LIQUID CRYSTALS USING MODIFIED WEIGHTED DENSITY APPROXIMATION (MWDA). <i>Molecular Crystals and Liquid Crystals</i> , 2004, 413, 179-185.	0.4	0
471	Mode-coupling theory and the glass transition in supercooled liquids. <i>Reviews of Modern Physics</i> , 2004, 76, 785-851.	16.4	343
472	Structures and correlation functions of multicomponent and polydisperse hard-sphere mixtures from a density functional theory. <i>Journal of Chemical Physics</i> , 2004, 121, 1535-1541.	1.2	53
473	Recent developments in the kinetic theory of nucleation. <i>Advances in Colloid and Interface Science</i> , 2005, 118, 51-72.	7.0	63
474	Statistical theory of noble-gas crystals and the phenomenon of sublimation. <i>Physical Review E</i> , 2005, 71, 051102.	0.8	4
475	Symmetry breaking in the self-consistent Kohn-Sham equations. <i>Journal of Physics A</i> , 2005, 38, 5647-5657.	1.6	7
476	Kinetic theory of nucleation based on a first passage time analysis: Improvement by the density-functional theory. <i>Journal of Chemical Physics</i> , 2005, 123, 214503.	1.2	15
477	Link between liquid structure and the nucleation barrier for icosahedral quasicrystal, polytetrahedral, and simple crystalline phases in Ti-Zr Alloys: Verification of Frank's hypothesis. <i>Physical Review B</i> , 2005, 72, .	1.1	76
478	Optimum vacancy concentration in a crystal. <i>Physical Review E</i> , 2005, 72, 021603.	0.8	4
479	Phase diagram of the vortex system in layered superconductors with strong columnar pinning. <i>Physical Review B</i> , 2005, 72, .	1.1	13
480	Analysis of the validity of perturbation density functional theory: Based on extensive simulation for simple fluid at supercritical and subcritical temperature under various external potentials. <i>Journal of Chemical Physics</i> , 2005, 122, 064503.	1.2	27
481	Density functional theory for the freezing transition of the vortex-line liquid with periodic layer pinning. <i>Physical Review B</i> , 2005, 72, .	1.1	13
482	EXTENDING SIMPLE WEIGHTED DENSITY APPROXIMATION FOR HARD SPHERE FLUID TO LENNARD-JONES FLUID (I): TEST. <i>International Journal of Modern Physics B</i> , 2005, 19, 4701-4721.	1.0	7
483	Local Mean Field Models of Uniform to Nonuniform Density Fluid-Crystal Transitions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6849-6854.	1.2	5
484	Equilibrium Glassy Phase in a Polydisperse Hard-Sphere System. <i>Physical Review Letters</i> , 2005, 95, 248301.	2.9	50
485	Bridging the gap between the mode coupling and the random first order transition theories of structural relaxation in liquids. <i>Physical Review E</i> , 2005, 72, 031509.	0.8	45
486	Optimized Interactions for Targeted Self-Assembly: Application to a Honeycomb Lattice. <i>Physical Review Letters</i> , 2005, 95, 228301.	2.9	121
487	Theories of the Structural Glass Transition. , 2005, , 171-202.		3

#	ARTICLE	IF	CITATIONS
488	The freezing transition of a hard sphere fluid subject to the Percus-Yevick approximation. Journal of Chemical Physics, 2006, 125, 204506.	1.2	6
489	Phase diagram of vortex matter in layered high-temperature superconductors with random point pinning. Physical Review B, 2006, 74, .	1.1	7
491	Solidity of viscous liquids. IV. Density fluctuations. Physical Review E, 2006, 74, 021502.	0.8	26
492	Stability of amorphous structures with voids. Journal of Non-Crystalline Solids, 2006, 352, 4857-4861.	1.5	5
493	Inhomogeneous Fluids. , 2006, , 147-177.		1
494	Spinodal in a Liquidâ€“Face-Centered Cubic Phase Separation. Journal of the Physical Society of Japan, 2006, 75, 084602.	0.7	7
495	Nucleation of crystals from their liquid phase. Comptes Rendus Physique, 2006, 7, 988-999.	0.3	16
496	On the non-adiabatic dynamics of solvation: A molecular hydrodynamic formulation. Chemical Physics, 2006, 329, 343-356.	0.9	15
497	Effects of confinement on freezing and melting. Journal of Physics Condensed Matter, 2006, 18, R15-R68.	0.7	614
498	Perturbation theory for liquids with a hard sphere plus square well potential. Journal of Structural Chemistry, 2006, 47, S173-S190.	0.3	6
499	Dynamical field theory for glass-forming liquids, self-consistent resummations and time-reversal symmetry. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P07008-P07008.	0.9	68
500	Construction of the Free Energy Landscape by the Density Functional Approach. Journal of the Physical Society of Japan, 2006, 75, 054005.	0.7	8
501	Do Current-Density Nonlinearities Cut Off the Glass Transition?. Physical Review Letters, 2006, 96, 135701.	2.9	40
502	Designed interaction potentials via inverse methods for self-assembly. Physical Review E, 2006, 73, 011406.	0.8	95
503	Diffusive atomistic dynamics of edge dislocations in two dimensions. Physical Review E, 2006, 73, 031609.	0.8	181
504	Ginzburg-Landau theory of crystalline anisotropy for bcc-liquid interfaces. Physical Review B, 2006, 73, .	1.1	65
505	Surface Melting of the Vortex Lattice. Physical Review Letters, 2006, 96, 177001.	2.9	6
506	Pair Correlation Functions in Nematics: Free-Energy Functional and Isotropic-Nematic Transition. Physical Review Letters, 2006, 97, 177801.	2.9	23

#	ARTICLE	IF	CITATIONS
507	Mixing behavior and structural formation of quench-condensed binary mixtures of solid noble gases. <i>Physical Review B</i> , 2006, 73, .	1.1	9
508	DENSITY FUNCTIONAL THEORY AND FREEZING OF HARD SPHERES, BEYOND THE PERCUSÁYEVICK APPROXIMATION. <i>International Journal of Modern Physics B</i> , 2007, 21, 1089-1098.	1.0	2
509	MODELING OF ADSORPTION IN PORES BY MEANS OF THIRD ORDER + SECOND ORDER PERTURBATION DENSITY FUNCTIONAL THEORY AND MONTE CARLO SIMULATION. <i>International Journal of Modern Physics B</i> , 2007, 21, 3601-3619.	1.0	2
510	Nucleation of Crystals From the Melt. <i>Advances in Chemical Physics</i> , 2007, , 263-296.	0.3	33
511	Recent Progress in the Statistical Mechanical Mechanics of Interaction Site Fluids. <i>Advances in Chemical Physics</i> , 2007, , 451-550.	0.3	55
512	A density functional model for the binary crystal of hard spheres with vacancies. <i>Journal of Chemical Physics</i> , 2007, 126, 064507.	1.2	4
513	Structure of spherical electric double layers: A density functional approach. <i>Journal of Chemical Physics</i> , 2007, 127, 034502.	1.2	25
514	Interfacial colloidal sedimentation equilibrium. I. Intensity based confocal microscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 164708.	1.2	31
515	Critical nuclei and crystallization in colloidal suspensions. <i>Philosophical Magazine Letters</i> , 2007, 87, 847-854.	0.5	9
516	Pair correlation functions and a free energy functional for the nematic phase. <i>Journal of Chemical Physics</i> , 2007, 127, 044905.	1.2	13
517	Characteristic temperatures of glassy behaviour in a simple liquid. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 246107.	0.7	5
518	Phase diagram of randomly pinned vortex matter in layered superconductors: Dependence on the details of the point pinning. <i>Physical Review B</i> , 2007, 76, .	1.1	7
519	Dissipative phenomena and acoustic phonons in isothermal crystals: A density-functional theory study. <i>Physical Review B</i> , 2007, 75, .	1.1	48
520	Dynamics in inhomogeneous liquids and glasses via the test particle limit. <i>Physical Review E</i> , 2007, 75, 040501.	0.8	61
521	Free energy landscape and cooperatively rearranging region in a hard sphere glass. <i>Physical Review E</i> , 2007, 76, 021506.	0.8	14
522	Density functional theory of vortex lattice melting in layered superconductors: A mean-field substrate approach. <i>Physical Review B</i> , 2007, 75, .	1.1	6
523	Formation of a large polaron crystal from a homogeneous, dilute polaron gas. <i>Physical Review B</i> , 2007, 76, .	1.1	8
524	Surface melting of the vortex lattice in layered superconductors: Density functional theory. <i>Physical Review B</i> , 2007, 75, .	1.1	2

#	ARTICLE	IF	CITATIONS
525	Perturbation theory for classical solids with vacancy defects. <i>Physical Review B</i> , 2007, 75, .	1.1	3
526	Melting and Liquid Structure in two Dimensions. <i>Advances in Chemical Physics</i> , 2007, , 543-709.	0.3	59
527	Solid-Fluid Equilibrium: Insights from Simple Molecular Models. <i>Advances in Chemical Physics</i> , 2007, , 113-179.	0.3	73
529	Integral Equation Theories of the Structure, Thermodynamics, and Phase Transitions of Polymer Fluids. <i>Advances in Chemical Physics</i> , 2007, , 1-142.	0.3	224
530	Phase-field crystal modeling and classical density functional theory of freezing. <i>Physical Review B</i> , 2007, 75, .	1.1	506
531	Density-Functional Theory for Complex Fluids. <i>Annual Review of Physical Chemistry</i> , 2007, 58, 85-112.	4.8	323
532	Theory of Structural Glasses and Supercooled Liquids. <i>Annual Review of Physical Chemistry</i> , 2007, 58, 235-266.	4.8	683
534	Perspectives on the mode-coupling approximation for the dynamics of interacting Brownian particles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P11003-P11003.	0.9	14
535	Why do ultrasoft repulsive particles cluster and crystallize? Analytical results from density-functional theory. <i>Journal of Chemical Physics</i> , 2007, 126, 224502.	1.2	163
536	Structural properties of crystallizable polymer melts: Intrachain and interchain correlation functions. <i>Physical Review E</i> , 2007, 75, 041801.	0.8	25
537	Phase-field crystal modeling of equilibrium bcc-liquid interfaces. <i>Physical Review B</i> , 2007, 76, .	1.1	155
538	Direct and indirect correlations in low density supercritical Lennard-Jones fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 401-415.	1.2	4
539	Freezing of Helium-4: Comparison of Different Density Functional Approaches. <i>Journal of Low Temperature Physics</i> , 2007, 148, 731-736.	0.6	7
540	Radial distribution function of a hard-sphere fluid for the nearest neighbor surroundings. <i>Journal of Structural Chemistry</i> , 2007, 48, 1073-1081.	0.3	3
541	Transient ordering in a quasi-two-dimensional liquid near freezing. <i>Journal of Chemical Physics</i> , 2008, 128, 244517.	1.2	15
543	Melting at dislocations and grain boundaries: A phase field crystal study. <i>Physical Review B</i> , 2008, 77, .	1.1	132
544	Anomalous structural and mechanical properties of solids confined in quasi-one-dimensional strips. <i>Journal of Chemical Physics</i> , 2008, 128, 194702.	1.2	18
545	Phase-field crystal study of grain-boundary premelting. <i>Physical Review B</i> , 2008, 78, .	1.1	229

#	ARTICLE	IF	CITATIONS
546	Simulation of an atomistic dynamic field theory for monatomic liquids: Freezing and glass formation. <i>Physical Review E</i> , 2008, 77, 061506.	0.8	73
547	Bridge density functional approximation for non-uniform hard core repulsive Yukawa fluid. <i>Chinese Physics B</i> , 2008, 17, 3812-3821.	0.7	5
548	Crystallization of magnetic dipolar monolayers: a density functional approach. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 404217.	0.7	22
549	Use of the cage formation probability for obtaining approximate phase diagrams. <i>Journal of Chemical Physics</i> , 2008, 128, 134516.	1.2	10
550	A fluctuation-dissipation relationship-preserving field theory for interacting Brownian particles: one-loop theory and mode coupling theory. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P02004.	0.9	21
551	Phase field crystals as a coarse-graining in time of molecular dynamics. <i>Europhysics Letters</i> , 2008, 81, 40007.	0.7	42
552	Free-energy landscape for a tagged particle in a dense hard-sphere fluid. <i>Physical Review E</i> , 2008, 77, 061503.	0.8	12
553	Fluctuation-dissipation-relation-preserving field theory of the glass transition in terms of fluctuating hydrodynamics. <i>Physical Review E</i> , 2008, 78, 061502.	0.8	15
554	Flux-lattice melting in $\text{LaFeAsO}_{1-x}\text{F}_x$: First-principles prediction. <i>Physical Review B</i> , 2008, 78, .	1.1	6
555	Signatures of Dynamical Heterogeneity in the Structure of Glassy Free-Energy Minima. <i>Physical Review Letters</i> , 2008, 100, 125701.	2.9	14
556	Phase-field model of interfaces in single-component systems derived from classical density functional theory. <i>Physical Review B</i> , 2008, 77, .	1.1	3
557	Colloidal Crystal Growth at Externally Imposed Nucleation Clusters. <i>Physical Review Letters</i> , 2008, 100, 108302.	2.9	72
558	Modeling microstructural evolution using atomic density function and effective pair potentials. <i>Physical Review B</i> , 2008, 78, .	1.1	3
559	Phase field modelling of interfaces from first principles. <i>Journal of Physics: Conference Series</i> , 2008, 94, 012002.	0.3	1
560	Derivation of the phase-field-crystal model for colloidal solidification. <i>Physical Review E</i> , 2009, 79, 051404.	0.8	178
561	Replica theory for fluctuations of the activation barriers in glassy systems. <i>Physical Review B</i> , 2009, 80, .	1.1	21
562	Deriving surface-energy anisotropy for phenomenological phase-field models of solidification. <i>Physical Review E</i> , 2009, 79, 011607.	0.8	39
563	Phase diagram of vortex matter in layered superconductors with tilted columnar pinning centers. <i>Physical Review B</i> , 2009, 80, .	1.1	2

#	ARTICLE	IF	CITATIONS
564	Closure-based perturbative density-functional theory of hard-sphere freezing: Properties of the bridge functional. <i>Physical Review E</i> , 2009, 80, 031109.	0.8	3
565	Density Functional Theory Approach for Charged Hard Sphere Fluids Confined in Spherical Micro-Cavity. <i>Chinese Physics Letters</i> , 2009, 26, 126102.	1.3	3
566	Crystallization of fluids: Free-energy functional for symmetry breaking first-order freezing transition. <i>Europhysics Letters</i> , 2009, 88, 16005.	0.7	14
567	Order in Extremal Trajectories. <i>Journal of Statistical Physics</i> , 2009, 137, 1079-1093.	0.5	9
568	Density functional theory approach to the freezing transition in two-dimensional colloid system. <i>European Physical Journal B</i> , 2009, 72, 451-456.	0.6	3
569	Atomistic calculations on interfaces: Bridging the length and time scales. <i>European Physical Journal: Special Topics</i> , 2009, 177, 41-57.	1.2	9
570	Progress in the Perturbation Approach in Fluid and Fluid-Related Theories. <i>Chemical Reviews</i> , 2009, 109, 2829-2858.	23.0	63
571	Spatially controlled reversible colloidal self-assembly. <i>Journal of Chemical Physics</i> , 2009, 131, 134705.	1.2	45
572	Classical density functional theory: an ideal tool to study heterogeneous crystal nucleation. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 464101.	0.7	33
573	Cluster crystals in confinement. <i>Soft Matter</i> , 2009, 5, 1024.	1.2	28
574	Thermodynamics of bcc metals in phase-field-crystal models. <i>Physical Review E</i> , 2009, 80, 031602.	0.8	166
575	Pressure-energy correlations in liquids. IV. "œsomorpha" in liquid phase diagrams. <i>Journal of Chemical Physics</i> , 2009, 131, 234504.	1.2	297
576	Phase field crystal study of deformation and plasticity in nanocrystalline materials. <i>Physical Review E</i> , 2009, 80, 046107.	0.8	156
577	Diffusion-Controlled Anisotropic Growth of Stable and Metastable Crystal Polymorphs in the Phase-Field Crystal Model. <i>Physical Review Letters</i> , 2009, 103, 035702.	2.9	92
580	A star-function based density functional study of the adsorption of Lennard-Jones fluid near its supercritical states. <i>Journal of Supercritical Fluids</i> , 2010, 55, 524-536.	1.6	5
581	Phase field modeling of defects and deformation. <i>Acta Materialia</i> , 2010, 58, 1212-1235.	3.8	365
582	Continuum theory of carbon phases. <i>Carbon</i> , 2010, 48, 8-24.	5.4	19
583	Derivation of a three-dimensional phase-field-crystal model for liquid crystals from density functional theory. <i>Physical Review E</i> , 2010, 82, 031708.	0.8	55

#	ARTICLE	IF	CITATIONS
584	Nonclassical rotational inertia in a two-dimensional bosonic solid containing grain boundaries. <i>Physical Review B</i> , 2010, 82, .	1.1	4
585	Displacement field and elastic constants in nonideal crystals. <i>Physical Review B</i> , 2010, 81, .	1.1	23
586	Morphological instability, evolution, and scaling in strained epitaxial films: An amplitude-equation analysis of the phase-field-crystal model. <i>Physical Review B</i> , 2010, 81, .	1.1	26
587	Amplitude expansion of the binary phase-field-crystal model. <i>Physical Review E</i> , 2010, 81, 011602.	0.8	104
588	Turbulence-induced melting of a nonequilibrium vortex crystal in a forced thin fluid film. <i>New Journal of Physics</i> , 2010, 12, 023033.	1.2	8
589	A phase field crystal study of epitaxial island formation on nanomembranes. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 364103.	0.7	16
590	Polymorphism, crystal nucleation and growth in the phase-field crystal model in 2D and 3D. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 364101.	0.7	84
591	Theoretical Perspectives on Protein Folding. <i>Annual Review of Biophysics</i> , 2010, 39, 159-183.	4.5	183
592	Beyond the Classical Theory. <i>Pergamon Materials Series</i> , 2010, 15, 85-123.	0.2	3
593	A phase-field-crystal model for liquid crystals. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 364105.	0.7	41
594	The van Hove distribution function for Brownian hard spheres: Dynamical test particle theory and computer simulations for bulk dynamics. <i>Journal of Chemical Physics</i> , 2010, 133, 224505.	1.2	98
595	Augmented Kierlik-Rosinberg Fundamental Measure Functional and Extension of Fundamental Measure Functional to Inhomogeneous Non-hard Sphere Fluids. <i>Communications in Theoretical Physics</i> , 2010, 54, 1023-1039.	1.1	16
596	Adsorption of Lennard-Jones Molecules on a Hard Wall: A Case Study in the Star-Function Based Density Functional Theory. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1897-1903.	1.0	4
597	Phase-field-crystal calculation of crystal-melt surface tension in binary alloys. <i>Physical Review E</i> , 2010, 82, 041601.	0.8	16
598	Free energies, vacancy concentrations, and density distribution anisotropies in hard-sphere crystals: A combined density functional and simulation study. <i>Physical Review E</i> , 2010, 82, 051404.	0.8	60
599	Eighth-order phase-field-crystal model for two-dimensional crystallization. <i>Physical Review E</i> , 2010, 82, 061602.	0.8	27
600	Controlling crystal symmetries in phase-field crystal models. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 364102.	0.7	36
601	Phase-field-crystal dynamics for binary systems: Derivation from dynamical density functional theory, amplitude equation formalism, and applications to alloy heterostructures. <i>Physical Review E</i> , 2010, 82, 021605.	0.8	89

#	ARTICLE	IF	CITATIONS
602	Phase-field-crystal model for fcc ordering. <i>Physical Review E</i> , 2010, 81, 061601.	0.8	148
603	Free Energy Functionals for Efficient Phase Field Crystal Modeling of Structural Phase Transformations. <i>Physical Review Letters</i> , 2010, 105, 045702.	2.9	170
605	Curvature Dependence of Interfacial Properties for Associating Lennard-Jones Fluids: A Density Functional Study. <i>Chinese Physics Letters</i> , 2011, 28, 026101.	1.3	2
606	Tuning the structure of non-equilibrium soft materials by varying the thermodynamic driving force for crystal ordering. <i>Soft Matter</i> , 2011, 7, 1789-1799.	1.2	52
607	Pattern formation of dipolar colloids in rotating fields: layering and synchronization. <i>Soft Matter</i> , 2011, 7, 6606.	1.2	45
608	String-Like Collective Atomic Motion in the Melting and Freezing of Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14068-14076.	1.2	30
609	Phase-field-crystal methodology for modeling of structural transformations. <i>Physical Review E</i> , 2011, 83, 031601.	0.8	107
610	Mode-coupling glass transition in a fluid confined by a periodic potential. <i>Physical Review E</i> , 2011, 84, 061501.	0.8	10
611	Three-dimensional phase-field crystal modeling of fcc and bcc dendritic crystal growth. <i>Journal of Crystal Growth</i> , 2011, 334, 146-152.	0.7	39
612	Faceting and Branching in 2D Crystal Growth. <i>Physical Review Letters</i> , 2011, 106, 195502.	2.9	63
613	The Kirkendall effect in the phase field crystal model. <i>Philosophical Magazine</i> , 2011, 91, 151-164.	0.7	41
614	A Continuous Approach to Discrete Ordering on \mathbb{S}^2 . <i>Multiscale Modeling and Simulation</i> , 2011, 9, 314-334.	0.6	20
615	Testing "microscopic" theories of glass-forming liquids. <i>European Physical Journal E</i> , 2011, 34, 96.	0.7	41
616	Selected issues of phase-field crystal simulations. <i>European Physical Journal Plus</i> , 2011, 126, 1.	1.2	10
617	Statics and dynamics of inhomogeneous liquids via the internal-energy functional. <i>Physical Review E</i> , 2011, 84, 051203.	0.8	14
618	Accurate Density Response Function of Superfluid 4He at Freezing Pressure: Is DFT Successful for Superfluid Freezing?. <i>Journal of Low Temperature Physics</i> , 2011, 162, 160-166.	0.6	6
619	A Phase Field Crystal Approach for Particles in a Flowing Solvent. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 541-547.	0.6	12
620	Brownian particles with long- and short-range interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 1546-1574.	1.2	36

#	ARTICLE	IF	CITATIONS
621	DDFT calibration and investigation of an anisotropic phase-field crystal model. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 265005.	0.7	13
622	Constructing a new closure theory based on the third-order Ornstein-Zernike equation and a study of the adsorption of simple fluids. <i>Journal of Chemical Physics</i> , 2011, 135, 204706.	1.2	9
623	Time-dependent correlations in a supercooled liquid from nonlinear fluctuating hydrodynamics. <i>Physical Review E</i> , 2011, 83, 041506.	0.8	8
624	Universal features of the free-energy functional at the freezing transition for repulsive potentials. <i>Physical Review E</i> , 2011, 83, 051110.	0.8	2
625	Polar liquid crystals in two spatial dimensions: The bridge from microscopic to macroscopic modeling. <i>Physical Review E</i> , 2011, 83, 061706.	0.8	27
626	Stability of liquid crystalline phases in the phase-field-crystal model. <i>Physical Review E</i> , 2011, 83, 061712.	0.8	21
627	Marginal stability analysis of the phase field crystal model in one spatial dimension. <i>Physical Review B</i> , 2011, 83, .	1.1	37
628	Microscopic and macroscopic theories for the dynamics of polar liquid crystals. <i>Physical Review E</i> , 2011, 84, 041708.	0.8	22
629	Free-energy functional for freezing transitions: Hard-sphere systems freezing into crystalline and amorphous structures. <i>Physical Review E</i> , 2011, 83, 051506.	0.8	13
630	Phase-field crystal modelling of crystal nucleation, heteroepitaxy and patterning. <i>Philosophical Magazine</i> , 2011, 91, 123-149.	0.7	59
631	Glasses. , 2011, , 1-24.		0
632	Extended hydrodynamic approach to quantum-classical nonequilibrium evolution. I. Theory. <i>Journal of Chemical Physics</i> , 2011, 134, 064116.	1.2	23
633	Time dependent stretching of aging dynamics in a generalized hydrodynamic model for supercooled liquids. <i>Journal of Chemical Physics</i> , 2012, 136, 154506.	1.2	4
634	Suppression of the melting line in a weakly disordered flux-line system. <i>Physical Review B</i> , 2012, 85, .	1.1	6
635	Metastable-state dynamics of a liquid: A free-energy landscape study. <i>Physical Review E</i> , 2012, 85, 051501.	0.8	1
636	Dynamics of localized particles from density functional theory. <i>Physical Review E</i> , 2012, 85, 011404.	0.8	15
637	Self-learning metabasin escape algorithm for supercooled liquids. <i>Physical Review E</i> , 2012, 86, 016710.	0.8	27
638	Solidification fronts in supercooled liquids: How rapid fronts can lead to disordered glassy solids. <i>Physical Review E</i> , 2012, 86, 031603.	0.8	52

#	ARTICLE	IF	CITATIONS
639	TESTING POWER-LAW RELAXATION SCENARIOS IN A METASTABLE LIQUID. International Journal of Modern Physics B, 2012, 26, 1250146.	1.0	2
640	Maximum-entropy closure of hydrodynamic moment hierarchies including correlations. Journal of Chemical Physics, 2012, 136, 214109.	1.2	10
641	The hopping process of a vacancy defect in a crystal. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P10016.	0.9	0
642	Phase-field-crystal models for condensed matter dynamics on atomic length and diffusive time scales: an overview. Advances in Physics, 2012, 61, 665-743.	35.9	303
643	Derivation of Coarse Grained Models for Multiscale Simulation of Liquid Crystalline Phase Transitions. Journal of Physical Chemistry B, 2012, 116, 8474-8484.	1.2	63
644	Description of hard-sphere crystals and crystal-fluid interfaces: A comparison between density functional approaches and a phase-field crystal model. Physical Review E, 2012, 86, 021404.	0.8	47
645	Fourier space approach to the classical density functional theory for multi-Yukawa and square-well fluids. Journal of Chemical Physics, 2012, 137, 104104.	1.2	12
646	Bond orientational order in liquids: Towards a unified description of water-like anomalies, liquid-liquid transition, glass transition, and crystallization. European Physical Journal E, 2012, 35, 113.	0.7	274
648	Defect stability in phase-field crystal models: Stacking faults and partial dislocations. Physical Review B, 2012, 86, .	1.1	59
649	Orientation selection process during the early stage of cubic dendrite growth: A phase-field crystal study. Acta Materialia, 2012, 60, 5501-5507.	3.8	45
650	Density functional theory for the ground state of spherically confined dusty plasma. Physical Review E, 2012, 85, 056402.	0.8	5
651	Extended hydrodynamic approach to quantum-classical nonequilibrium evolution. II. Application to nonpolar solvation. Journal of Chemical Physics, 2012, 136, 014102.	1.2	6
652	Freezing lines of colloidal Yukawa spheres. I. A Rogers-Young integral equation study. Journal of Chemical Physics, 2012, 136, 024507.	1.2	18
653	Molecular Origins of Homogeneous Crystal Nucleation. Annual Review of Chemical and Biomolecular Engineering, 2012, 3, 157-182.	3.3	35
654	Statistical theory for a hydrogen bonding fluid system of A a D d type (IV): Depletion potential between colloid particles. Science China Chemistry, 2012, 55, 1160-1166.	4.2	1
655	Phase field crystal simulations of nanocrystalline grain growth in two dimensions. Acta Materialia, 2012, 60, 407-419.	3.8	91
656	Stable and metastable hard-sphere crystals in fundamental measure theory. Physical Review E, 2013, 88, 022301.	0.8	10
657	Unconditionally stable method and numerical solution of the hyperbolic phase-field crystal equation. Physical Review E, 2013, 88, 013310.	0.8	56

#	ARTICLE	IF	CITATIONS
658	A theoretical framework for calculations of the structural relaxation time on the basis of the free energy landscape theory. <i>Chemical Physics Letters</i> , 2013, 577, 58-61.	1.2	2
659	Atomistic Modeling of Solidification Phenomena Using the Phase-Field-Crystal Model. <i>Jom</i> , 2013, 65, 1103-1110.	0.9	23
660	Correlation functions in liquids and crystals: Free-energy functional and liquid-to-crystal transition. <i>Physical Review E</i> , 2013, 88, 022112.	0.8	10
661	Complex order parameter phase-field models derived from structural phase-field-crystal models. <i>Physical Review B</i> , 2013, 88, .	1.1	28
662	Inhomogeneous Fluids. , 2013, , 203-264.		5
663	Coarse-grained forms for equations describing the microscopic motion of particles in a fluid. <i>Physical Review E</i> , 2013, 88, 043008.	0.8	19
664	Importance of many-body orientational correlations in the physical description of liquids. <i>Faraday Discussions</i> , 2013, 167, 9.	1.6	77
665	Isotopic differentiation and sublattice melting in dense dynamic ice. <i>Physical Review B</i> , 2013, 88, .	1.1	14
666	Melting of Coulomb-interacting classical particles in 2D irregular traps. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	7
667	Colloidal particles in a drying suspension: A phase field crystal approach. <i>European Physical Journal E</i> , 2013, 36, 90.	0.7	3
668	Freezing of a two-dimensional fluid into a crystalline phase: Density functional approach. <i>Physical Review E</i> , 2013, 87, 012309.	0.8	8
669	Phase-field-crystal study of grain boundary premelting and shearing in bcc iron. <i>Physical Review B</i> , 2013, 87, .	1.1	77
671	Simulation of early-stage clustering in ternary metal alloys using the phase-field crystal method. <i>Acta Materialia</i> , 2013, 61, 3653-3666.	3.8	41
672	Phase Field Modeling Using PetIGA. <i>Procedia Computer Science</i> , 2013, 18, 1614-1623.	1.2	14
673	String-like cooperative motion in homogeneous melting. <i>Journal of Chemical Physics</i> , 2013, 138, 12A538.	1.2	69
674	Bcc crystal-fluid interfacial free energy in Yukawa systems. <i>Journal of Chemical Physics</i> , 2013, 138, 044705.	1.2	23
675	Density functional theory for crystal-liquid interfaces of Lennard-Jones fluid. <i>Journal of Chemical Physics</i> , 2013, 138, 164704.	1.2	15
676	Multicomponent phase-field crystal model for structural transformations in metal alloys. <i>Physical Review B</i> , 2013, 87, .	1.1	56

#	ARTICLE	IF	CITATIONS
677	Nucleation of a Stable Solid from Melt in the Presence of Multiple Metastable Intermediate Phases: Wetting, Ostwald's Step Rule, and Vanishing Polymorphs. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13154-13163.	1.2	27
678	Liquid to solid nucleation via onion structure droplets. <i>Journal of Chemical Physics</i> , 2013, 139, 174505.	1.2	10
679	Classical density functional theory and the phase-field crystal method using a rational function to describe the two-body direct correlation function. <i>Physical Review E</i> , 2013, 87, 013313.	0.8	14
680	Vacancy diffusion in colloidal crystals as determined by dynamical density-functional theory and the phase-field-crystal model. <i>Physical Review E</i> , 2013, 87, 022306.	0.8	14
681	Functional thermo-dynamics: A generalization of dynamic density functional theory to non-isothermal situations. <i>Journal of Chemical Physics</i> , 2013, 139, 034106.	1.2	24
682	Nonequilibrium Ornstein-Zernike relation for Brownian many-body dynamics. <i>Journal of Chemical Physics</i> , 2013, 139, 104108.	1.2	39
683	Insights into Polymer Crystallization from Phase-Field Theory. , 2013, , 1-35.		5
684	Comparative study of a universal theoretical way and 3rd-order perturbation density functional theory. <i>Physics and Chemistry of Liquids</i> , 2013, 51, 143-161.	0.4	0
685	Species separation of binary colloidal mixtures in the multi-Gauss potential: Effect of depletion. <i>Chinese Physics B</i> , 2014, 23, 126401.	0.7	1
686	Hexatic phase and cluster crystals of two-dimensional GEM4 spheres. <i>Journal of Chemical Physics</i> , 2014, 141, 184502.	1.2	31
687	Nonlinear hydrodynamic theory of crystallization. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 055001.	0.7	18
688	Kinetic density functional theory of freezing. <i>Journal of Chemical Physics</i> , 2014, 141, 174506.	1.2	14
689	Cluster phases of penetrable rods on a line. <i>Physical Review E</i> , 2014, 90, 042306.	0.8	12
690	Nonequilibrium dynamics of four-point correlations of collective density fluctuations in a supercooled liquid. <i>Physical Review E</i> , 2014, 90, 012137.	0.8	4
691	Phase Field Crystal Study for the Effect of Heating Rate on the Premelting of Grain Boundary. <i>Advanced Materials Research</i> , 0, 936, 523-528.	0.3	0
692	Active crystals and their stability. <i>Physical Review E</i> , 2014, 89, 022301.	0.8	63
693	Density functional theory of heterogeneous crystallization. <i>European Physical Journal: Special Topics</i> , 2014, 223, 373-387.	1.2	21
694	Density functional theory of freezing for binary mixtures of 2D superparamagnetic colloids. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 465101.	0.7	5

#	ARTICLE	IF	CITATIONS
695	Size Selectivity in the Confined Ternary Colloidal Mixtures: The Depletion in the Competition. Journal of Physical Chemistry B, 2014, 118, 11826-11834.	1.2	2
696	Advanced Ginzburg-Landau theory of freezing: A density-functional approach. Physical Review B, 2014, 90, .	1.1	8
697	Solid phase properties and crystallization in simple model systems. European Physical Journal: Special Topics, 2014, 223, 421-438.	1.2	18
698	Heterogeneous nucleation of/on nanoparticles: a density functional study using the phase-field crystal model. Chemical Society Reviews, 2014, 43, 2159.	18.7	43
699	Free energy of the bccâ€“liquid interface and the Wulff shape as predicted by the phase-field crystal model. Journal of Crystal Growth, 2014, 385, 148-153.	0.7	19
700	Domain glasses: Twin planes, Bloch lines, and Bloch points. Physica Status Solidi (B): Basic Research, 2015, 252, 2639-2648.	0.7	23
701	Theoretical Method of Calculating Solvent Nonequilibrium Effect on Solute Movement. Journal of the Physical Society of Japan, 2015, 84, 123601.	0.7	4
702	Phase-field crystal approach for modeling the role of microstructure in multiferroic composite materials. Physical Review B, 2015, 92, .	1.1	30
703	Spatial modulation of the composition of a binary liquid near a repulsive wall. Physical Review E, 2015, 91, 052406.	0.8	4
704	Renormalized dynamics of the Dean-Kawasaki model. Physical Review E, 2015, 92, 012325.	0.8	8
705	Understanding the approximations of mode-coupling theory for sheared steady states of colloids. Physical Review E, 2015, 92, 042306.	0.8	3
706	Slow dynamics of a tagged particle in a supercooled liquid. Physical Review E, 2015, 92, 062309.	0.8	8
707	Modeling diffusion in colloidal suspensions by dynamical density functional theory using fundamental measure theory of hard spheres. Physical Review E, 2015, 92, 022151.	0.8	26
708	Qualitatively different collective and single-particle dynamics in a supercooled liquid. Physical Review E, 2015, 92, 062308.	0.8	9
709	A three dimensional integral equation approach for fluids under confinement: Argon in zeolites. Journal of Chemical Physics, 2015, 143, 164703.	1.2	9
710	Nonequilibrium Effects on Macromolecules Immersed in a Solvent. JPSJ News and Comments, 2015, 12, 13.	0.2	1
711	Solidâ€“fluid transition of two- or three-dimensional systems with infinite-range interaction. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P08020.	0.9	2
712	Use of polydispersity index as control parameter to study melting/freezing of Lennard-Jones system: Comparison among predictions of bifurcation theory with Lindemann criterion, inherent structure analysis and Hansen-Verlet rule. Journal of Chemical Sciences, 2015, 127, 1715-1728.	0.7	4

#	ARTICLE	IF	CITATIONS
713	Fluid-solid transition in simple systems using density functional theory. Journal of Chemical Physics, 2015, 143, 124503.	1.2	9
714	Phase transition in conjugated oligomers suspended in chloroform. AIP Conference Proceedings, 2015, , .	0.3	0
715	<i>Colloquium</i>: Random first order transition theory concepts in biology and physics. Reviews of Modern Physics, 2015, 87, 183-209.	16.4	117
716	Free power dissipation from functional line integration. Molecular Physics, 2015, 113, 2873-2880.	0.8	9
717	A Navier-Stokes phase-field crystal model for colloidal suspensions. Journal of Chemical Physics, 2015, 142, 154904.	1.2	25
718	Thermodynamics of Ice Nucleation in Liquid Water. Journal of Physical Chemistry B, 2015, 119, 1660-1668.	1.2	12
719	A Review of Quantitative Phase-Field Crystal Modeling of Solidâ€“Liquid Structures. Jom, 2015, 67, 186-201.	0.9	48
720	Assessment of phase-field-crystal concepts using long-time molecular dynamics. Physical Review B, 2015, 91, .	1.1	6
721	Generalized hydrodynamics model for strongly coupled plasmas. Physical Review E, 2015, 92, 013107.	0.8	41
722	New Density Functional Approach for Solid-Liquid-Vapor Transitions in Pure Materials. Physical Review Letters, 2015, 114, 155501.	2.9	49
723	Vibrational density of states in the disordered solid using classical density functional model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1073-1080.	0.9	1
724	Power functional theory for the dynamic test particle limit. Journal of Physics Condensed Matter, 2015, 27, 194106.	0.7	24
725	Ginzburg-Landau theory of the bcc-liquid interface kinetic coefficient. Physical Review B, 2015, 91, .	1.1	27
726	An energy-stable convex splitting for the phase-field crystal equation. Computers and Structures, 2015, 158, 355-368.	2.4	48
727	Theory of the structural glass transition: a pedagogical review. Advances in Physics, 2015, 64, 283-443.	35.9	50
728	Phase Equilibria of Hydrogen Bonding Fluid in a Slit Pore with Broken Symmetry. Chinese Journal of Chemical Physics, 2015, 28, 288-294.	0.6	2
729	Optical binding in white light. Optics Letters, 2015, 40, 1818.	1.7	5
730	Two-dimensional Hyper-branched Gold Nanoparticles Synthesized on a Two-dimensional Oil/Water Interface. Scientific Reports, 2014, 4, 6119.	1.6	25

#	ARTICLE	IF	CITATIONS
731	Nonequilibrium dynamics of a supercooled liquid using schematic and structural models. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 44-50.	1.5	0
732	Phase-Field Models. , 2015, , 631-668.		4
733	Flow of colloidal solids and fluids through constrictions: dynamical density functional theory versus simulation. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 244019.	0.7	22
734	Glass susceptibility: Growth kinetics and saturation under shear. <i>Physical Review E</i> , 2016, 94, 012607.	0.8	1
735	Fragility index of a simple liquid from structural inputs. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 093302.	0.9	0
736	Atomic density functional and diagram of structures in the phase field crystal model. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 122, 298-309.	0.2	18
737	Tunable attractive interaction and the phase diagram of a system of Gay-Berne ellipsoids: A density functional approach. <i>Journal of Molecular Liquids</i> , 2016, 222, 1139-1147.	2.3	2
738	Structural relaxation and diffusion in a model colloid-polymer mixture: dynamical density functional theory and simulation. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 455101.	0.7	11
739	Weak crystallization theory of metallic alloys. <i>Physical Review B</i> , 2016, 93, .	1.1	5
740	Kinetic Theory of Vapor-to-Liquid Nucleation. , 2016, , 115-228.		0
741	Two-mode Ginzburg-Landau theory of crystalline anisotropy for fcc-liquid interfaces. <i>Physical Review B</i> , 2016, 93, .	1.1	11
742	Linking density functional and mode coupling models for supercooled liquids. <i>Journal of Chemical Physics</i> , 2016, 144, 124511.	1.2	6
743	Existence and forming mechanism of metastable phase in crystallization. <i>Computational Materials Science</i> , 2016, 122, 167-176.	1.4	3
744	Phase diagram of two-dimensional binary Yukawa mixtures. <i>Molecular Physics</i> , 2016, 114, 741-756.	0.8	1
745	Energy stable multigrid method for local and non-local hydrodynamic models for freezing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 299, 22-56.	3.4	12
746	Modified Young's equation for equilibrium dihedral angles of grain boundary grooves in thin films at the nanoscale. <i>Acta Materialia</i> , 2016, 102, 364-372.	3.8	10
747	One Subject, Two Lands: My Journey in Condensed Matter Physics. <i>Annual Review of Condensed Matter Physics</i> , 2016, 7, 1-10.	5.2	6
748	Density functional theory of freezing of a system of conjugated oligomers parameterised via Gay-Berne potential. <i>Liquid Crystals</i> , 2016, 43, 195-207.	0.9	4

#	ARTICLE	IF	CITATIONS
749	Density-functional theory for fluid-solid and solid-solid phase transitions. <i>Physical Review E</i> , 2017, 95, 032120.	0.8	10
750	Fluidâ€™s triangular solid phase transitions in a system of two-dimensional nematic quadrupoles. <i>Molecular Physics</i> , 2017, 115, 3011-3023.	0.8	2
751	Thermodynamic relationships for homogeneous crystalline and liquid phases in the phase-field crystal model. <i>Computational Materials Science</i> , 2017, 135, 205-213.	1.4	8
752	Structure of solution of colloid and hydrogen bonding fluid near a semipermeable membrane. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 248-254.	1.3	2
753	Coupled motion of grain boundaries and the influence of microcracks: A phase-field-crystal study. <i>Computational Materials Science</i> , 2017, 132, 125-131.	1.4	9
754	Freezing transitions in a system of two-dimensional octupolar multipoles. <i>European Physical Journal E</i> , 2017, 40, 80.	0.7	2
755	Nonequilibrium mode-coupling theory for dense active systems of self-propelled particles. <i>Soft Matter</i> , 2017, 13, 7609-7616.	1.2	44
756	Onsagerâ€™s missing steps retraced. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 475102.	0.7	5
757	An overview of the statistical properties of two-dimensional turbulence in fluids with particles, conducting fluids, fluids with polymer additives, binary-fluid mixtures, and superfluids. <i>Physics of Fluids</i> , 2017, 29, 111112.	1.6	27
758	Melting of a nonequilibrium vortex crystal in a fluid film with polymers: Elastic versus fluid turbulence. <i>Physical Review E</i> , 2017, 95, 033119.	0.8	12
759	Density functional study on the pressure profile of the inhomogeneous fluid mixture. <i>Chinese Physics B</i> , 2017, 26, 086101.	0.7	0
760	Non-equilibrium Statistical Mechanics Based on the Free Energy Landscape and Its Application to Glassy Systems. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 082001.	0.7	15
761	The standard mean-field treatment of inter-particle attraction in classical DFT is better than one might expect. <i>Journal of Chemical Physics</i> , 2017, 147, 034501.	1.2	42
762	Density functional theory of freezing of a system of highly elongated ellipsoidal oligomer solutions. <i>Phase Transitions</i> , 2017, 90, 509-523.	0.6	1
763	Competitive bcc and fcc crystal nucleation from non-equilibrium liquids studied by phase-field crystal simulation. <i>Acta Materialia</i> , 2017, 139, 196-204.	3.8	34
764	Two modes of grain boundary pinning by coherent precipitates. <i>Acta Materialia</i> , 2017, 135, 226-232.	3.8	58
765	Dependence of the configurational entropy on amorphous structures of a hard-sphere fluid. <i>Physical Review E</i> , 2017, 96, 012124.	0.8	6
766	Phase-field-crystal investigation of the morphology of a steady-state dendrite tip on the atomic scale. <i>Physical Review E</i> , 2017, 95, 062803.	0.8	7

#	ARTICLE	IF	CITATIONS
767	Phase-field crystal modeling of heteroepitaxy and exotic modes of crystal nucleation. <i>Journal of Crystal Growth</i> , 2017, 457, 24-31.	0.7	20
768	Quantitative phase-field crystal modeling of solid-liquid interfaces for FCC metals. <i>Computational Materials Science</i> , 2017, 127, 236-243.	1.4	9
769	Role of the Pair Correlation Function in the Dynamical Transition Predicted by Mode Coupling Theory. <i>Physical Review Letters</i> , 2017, 119, 265502.	2.9	19
770	Generalization of exactly-solvable model to exhibit solid-fluid phase transition in crystal structures with two particles in a primitive cell. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 123202.	0.9	0
771	The diagram of phase-field crystal structures: an influence of model parameters in a two-mode approximation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 192, 012019.	0.3	3
772	Analysis of the anomalous mean-field like properties of Gaussian core model in terms of entropy. <i>Journal of Chemical Physics</i> , 2018, 148, 034504.	1.2	3
773	Bulk dynamics of Brownian hard disks: Dynamical density functional theory versus experiments on two-dimensional colloidal hard spheres. <i>Journal of Chemical Physics</i> , 2018, 148, 104501.	1.2	22
774	Quantifying structural dynamic heterogeneity in a dense two-dimensional equilibrium liquid. <i>Journal of Chemical Physics</i> , 2018, 149, 144504.	1.2	4
775	Density functional theory for the crystallization of two-dimensional dipolar colloidal alloys. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 405102.	0.7	10
776	Activity-dependent self-regulation of viscous length scales in biological systems. <i>Physical Review E</i> , 2018, 97, 052404.	0.8	6
777	Molecular dynamics simulations of liquid silica crystallization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5348-5352.	3.3	78
778	Multiple-scale structures: from Faraday waves to soft-matter quasicrystals. <i>IUCr</i> , 2018, 5, 247-268.	1.0	27
779	Recent Developments in Theory and Modeling of Polymer-Based Nanocomposites. <i>Advanced Structured Materials</i> , 2019, , 205-224.	0.3	6
780	Classical density functional theory for a two-dimensional isotropic ferrogel model with labeled particles. <i>Physical Review E</i> , 2019, 100, 012605.	0.8	10
781	Phase-Field Modeling of Grain Boundary Premelting. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8057-8076.	1.4	7
782	Time-dependent density functional theory for the freezing/melting transition in interfacial systems. <i>Chemical Engineering Science</i> , 2019, 207, 327-333.	1.9	5
783	A comparative study of a class of mean field theories of the glass transition. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 084008.	0.9	6
784	Phase-field crystal model for heterostructures. <i>Physical Review B</i> , 2019, 100, .	1.1	10

#	ARTICLE	IF	CITATIONS
785	The Enskog-Vlasov equation: a kinetic model describing gas, liquid, and solid. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 103205.	0.9	11
786	Deriving phase field crystal theory from dynamical density functional theory: Consequences of the approximations. <i>Physical Review E</i> , 2019, 100, 022140.	0.8	35
787	Phase-field modeling of crystal nucleation in undercooled liquids – A review. <i>Progress in Materials Science</i> , 2019, 106, 100569.	16.0	78
788	Capturing the dynamics of Wigner crystals within the phase-field crystal method. <i>Physical Review B</i> , 2019, 100, .	1.1	2
789	Pair correlation function and freezing transitions in a two-dimensional system of model ultrasoft colloids. <i>Molecular Physics</i> , 2020, 118, e1706774.	0.8	3
790	A classical density functional theory model for fragility in the hard-sphere limit. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	1.8	6
791	Generalized Swift-Hohenberg and phase-field-crystal equations based on a second-gradient phase-field theory. <i>Meccanica</i> , 2020, 55, 1853-1868.	1.2	11
792	Density functional theory of fluid-solid phase transition in a two-dimensional system of superparamagnetic colloids in tilted magnetic field. <i>Journal of Molecular Liquids</i> , 2020, 320, 114416.	2.3	1
793	Freezing of a soft-core fluid in a one-dimensional potential: Predictions based on a pressure-balance equation. <i>Physical Review E</i> , 2020, 101, 012609.	0.8	5
794	Mean-field theory of inhomogeneous fluids. <i>Physical Review E</i> , 2020, 102, 042140.	0.8	18
795	Correlated noise effect on the structure formation in the phase-field crystal model. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12185-12193.	1.2	10
796	Approximation of correlation functions in phase-field crystal model by machine learning approach. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12203-12210.	1.2	1
797	About one unified description of the first- and second-order phase transitions in the phase-field crystal model. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 44, 12129.	1.2	4
798	Classical dynamical density functional theory: from fundamentals to applications. <i>Advances in Physics</i> , 2020, 69, 121-247.	35.9	126
799	Entropic Origin of the Attenuated Width of the Ice-Water Interface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7334-7340.	1.5	13
800	Dynamic transition in a Brownian fluid: role of fluctuation-dissipation constraints. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 023208.	0.9	2
801	Growth of different faces in a body centered cubic lattice: A case of the phase-field-crystal modeling. <i>Journal of Crystal Growth</i> , 2020, 539, 125608.	0.7	16
802	Negative resistance for colloids driven over two barriers in a microchannel. <i>Soft Matter</i> , 2021, 17, 516-522.	1.2	4

#	ARTICLE	IF	CITATIONS
803	Non-hyperuniform metastable states around a disordered hyperuniform state of densely packed spheres: stochastic density functional theory at strong coupling. <i>Soft Matter</i> , 2021, 17, 8810-8831.	1.2	4
804	Thermodynamics Model for Mechanochemical Synthesis of Gold Nanoparticles: Implications for Solvent-Free Nanoparticle Production. <i>ACS Applied Nano Materials</i> , 2021, 4, 1886-1897.	2.4	11
805	Nucleation and Post-Nucleation Growth in Diffusion-Controlled and Hydrodynamic Theory of Solidification. <i>Crystals</i> , 2021, 11, 437.	1.0	5
806	Self-assembly in soft matter with multiple length scales. <i>Physical Review Research</i> , 2021, 3, .	1.3	7
807	Microscopic Theory of Softness in Supercooled Liquids. <i>Physical Review Letters</i> , 2021, 126, 208001.	2.9	18
808	Theoretical analyses of pressure induced glass transition in water: Signatures of surprising diffusion-entropy scaling across the transition. <i>Molecular Physics</i> , 0, , e1930222.	0.8	3
809	Finding direct correlation functions for desired two-dimensional lattices with a phase-field crystal. <i>Physical Review B</i> , 2021, 104, .	1.1	2
810	Self-assembly of binary solutions to complex structures. <i>Journal of Chemical Physics</i> , 2021, 155, 014904.	1.2	3
811	Direct Correlation Function of a Crystalline Solid. <i>Physical Review Letters</i> , 2021, 127, 085501.	2.9	14
812	Sherrington-Kirkpatrick model for spin glasses: Solution via the distributional zeta function method. <i>Physical Review E</i> , 2021, 104, 034102.	0.8	2
813	Localization, Disorder, and Entropy in a Coarse-Grained Model of the Amorphous Solid. <i>Entropy</i> , 2021, 23, 1171.	1.1	1
814	Dynamical Correlation Functions and Linear Response Theory for Fluids. <i>Soft and Biological Matter</i> , 2021, , 195-219.	0.3	0
815	Two-step melting of the Weeksâ€“Chandlerâ€“Anderson system in two dimensions. <i>Soft Matter</i> , 2021, 17, 3473-3485.	1.2	11
818	Experimental Studies of Melting and Hexatic Order in Two-Dimensional Colloidal Suspensions. <i>Partially Ordered Systems</i> , 1992, , 137-215.	6.5	14
819	Field Theoretic Models of Liquids. <i>NATO ASI Series Series B: Physics</i> , 1988, , 1-14.	0.2	1
820	Structure and Forces in Liquids and Liquid Mixtures. , 1985, , 53-89.		2
821	Liquid Surfaces and Solid-Liquid Interfaces. , 1985, , 125-156.		3
822	Inhomogeneous Fluids and the Freezing Transition. <i>NATO ASI Series Series B: Physics</i> , 1995, , 581-623.	0.2	2

#	ARTICLE	IF	CITATIONS
823	Melting. Springer Series in Solid-state Sciences, 1987, , 200-208.	0.3	2
824	Structure of the Solid-Liquid Interface. Crystals, 1983, , 1-21.	0.3	2
825	Mean-Field Theory of Surface Melting. Springer Series in Surface Sciences, 1988, , 554-558.	0.3	1
826	Ordering Transitions Induced by Coulomb Interactions. Physics and Chemistry of Materials With Low-dimensional Structures, 1989, , 221-238.	1.0	5
827	Theory of Crystal Growth. , 1983, , 197-236.		3
828	Video Microscopy of Charge-Stabilized Colloidal Suspensions. , 1992, , 145-174.		1
829	ICOSAHEDRAL ORDER IN UNDERCOOLED LIQUIDS AND METALLIC GLASSES. , 1986, , 28-44.		3
830	Symmetry, Elasticity, and Hydrodynamics in Quasiperiodic Structures. Aperiodicity and Order, 1988, , 199-280.	0.3	29
831	Quantum Theory of Structure: sp-Bonded Systems. Cohesion and Structure, 1989, , 147-286.	0.0	13
832	DENSITY FUNCTIONAL THEORY AND LANGEVIN-DIFFUSION EQUATION. , 1990, , 695-698.		2
833	Propriétés d'équilibre du plasma classique à une composante en trois et deux dimensions. Annales De Physique, 1986, 11, 653-738.	0.2	17
834	The glass transition: dynamic and static scaling approach. Journal De Physique, 1990, 51, 883-898.	1.8	44
835	A partitioned density functional theory of freezing: application to soft spheres. Molecular Physics, 1997, 90, 951-958.	0.8	2
836	Self-consistent modeling of anisotropic interfaces and missing orientations: Derivation from phase-field crystal. Physical Review Materials, 2018, 2, .	0.9	9
837	Thermodensity coupling in phase-field-crystal-type models for the study of rapid crystallization. Physical Review Materials, 2019, 3, .	0.9	14
838	Quasicrystal formation in binary soft matter mixtures. Physical Review Research, 2020, 2, .	1.3	9
839	Monte Carlo Simulation of the Dynamical Density Functional Equation for Supercooled Liquids. Progress of Theoretical Physics Supplement, 1997, 126, 305-308.	0.2	3
841	A classical density functional from machine learning and a convolutional neural network. SciPost Physics, 2019, 6, .	1.5	19

#	ARTICLE	IF	CITATIONS
843	Phase Behavior in Systems of Large Molecules. Springer Series in Cluster Physics, 2002, , 247-275.	0.3	0
844	Transitions in Simple Liquids: Correlation Function Approach. , 2002, , 527-543.		0
846	Title is missing!. , 2003, , .		0
847	Freezing in Halide Salts. Acta Physica Polonica A, 2008, 113, 1659-1670.	0.2	0
848	Theory of Phase Transitions in 2D Systems. , 2011, , 69-77.		0
850	Inhomogeneous Systems. , 2013, , .		0
851	Monte Carlo Simulation of the Dynamical Density Functional Equation for Supercooled Liquids. Progress of Theoretical Physics Supplement, 2013, 126, 305-308.	0.2	0
852	Freezing into Simple Cubic and hcp Monatomic Solids. , 1981, , 35-42.		0
853	Stability of Rapidly Solidified Quasicrystals. , 1986, , 259-271.		0
854	Basic Statistical Theory of Liquids. , 1987, , 1-59.		0
855	Elasticity of Crystals and Quasicrystals. , 1987, , 157-162.		0
856	Liquid Structure and Freezing of Metals and Molten Salts. , 1987, , 118-134.		0
857	The Freezing of Charged and Uncharged Hard-Sphere Systems. , 1987, , 305-313.		0
858	Stability and Deformations in Quasicrystalline Solids. Aperiodicity and Order, 1988, 1, 171-198.	0.3	1
859	The Liquid-Solid Two-Phase Coexistence. NATO ASI Series Series B: Physics, 1988, , 787-795.	0.2	0
860	DENSITY FUNCTIONAL THEORY OF QUANTUM WIGNER CRYSTALLIZATION. , 1990, , 145-148.		0
861	MICROSCOPIC DERIVATION OF LANDAU-GINZBURG FREE ENERGY FOR AN ION-ELECTRON TWO-COMPONENT PLASMA. , 1990, , 397-400.		0
862	DENSITY FUNCTIONAL THEORY AND LANGEVIN-DIFFUSION EQUATION. , 1990, , 695-698.		0

#	ARTICLE	IF	CITATIONS
863	MICROSCOPIC DERIVATION OF LANDAU-GINZBURG FREE ENERGY FOR AN ION-ELECTRON TWO-COMPONENT PLASMA. , 1990, , 397-400.		0
864	DENSITY FUNCTIONAL THEORY OF QUANTUM WIGNER CRYSTALLIZATION. , 1990, , 145-148.		0
865	A Modified BGY Equation for Classical Fluids. , 1993, , 543-549.		0
866	Hot Solid Properties From Liquid Structure Within Density Functional Theory. , 1993, , 603-614.		0
867	Phase transitions in colloidal dispersions. , 1994, , 207-225.		1
869	Dynamics Close to the Glass Transition. , 1994, , 365-380.		0
870	Colloidal Suspensions: Density Functional Theory at Work. , 1995, , 167-203.		0
871	Density Functional Approach to Vortex Matter. NATO ASI Series Series B: Physics, 1995, , 651-661.	0.2	0
872	Self-Diffusion of Colloids at Freezing. , 1997, , 7-20.		3
873	Incorporating density jumps and species-conserving dynamics in XPFC binary alloys. Physical Review Materials, 2020, 4, .	0.9	5
874	Density Functional Theory-Based Modeling of Polymer Nanocomposites. Springer Series in Materials Science, 2021, , 23-44.	0.4	1
875	Phase-Field-Crystal Model: A Tool for Probing Atoms in TSV. Springer Series in Advanced Microelectronics, 2021, , 107-130.	0.3	0
876	Connecting the phase-field-crystal model of electromigration with electronic and continuum theories. Physical Review Materials, 2021, 5, .	0.9	2
877	Solvation forces in ionic and neutral liquids: A density functional approach. Journal of Chemical Sciences, 1994, 106, 195-207.	0.7	0
878	Structure diagram and dynamics of formation of hexagonal boron nitride in phase-field crystal model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200318.	1.6	6
879	Construction of energy density functional for arbitrary spin polarization using functional renormalization group. Physical Review B, 2022, 105, .	1.1	1
880	Configurational entropy from a replica approach: A density-functional model. Physical Review E, 2022, 105, 024110.	0.8	1
881	Power functional theory for many-body dynamics. Reviews of Modern Physics, 2022, 94, .	16.4	31

#	ARTICLE	IF	CITATIONS
882	Molecular-Level Insights into the Nucleation Mechanism of One-Component Soft Matter Icosahedral Quasicrystal Studied by Phase-Field Crystal Simulations. <i>Crystal Growth and Design</i> , 2022, 22, 2637-2643.	1.4	4
883	Evaluation of grain boundary energy, structure and stiffness from phase field crystal simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022, 30, 014002.	0.8	9
884	Coarse-grained modeling of crystals by the amplitude expansion of the phase-field crystal model: an overview. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022, 30, 053001.	0.8	13
885	Existence and regularity of global solutions to a Cauchy problem for a square phase-field crystal model. <i>Applicable Analysis</i> , 0, , 1-12.	0.6	1
886	Identifying structural signature of dynamical heterogeneity via the local softness parameter. <i>Physical Review E</i> , 2022, 105, 044604.	0.8	4
887	A review of continuous modeling of periodic pattern formation with modified phase-field crystal models. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1135-1145.	1.2	8
888	Modeling and simulation of microstructure in metallic systems based on multi-physics approaches. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	10
889	Electric-field-induced oscillations in ionic fluids: a unified formulation of modified Poisson-Nernst-Planck models and its relevance to correlation function analysis. <i>Soft Matter</i> , 2022, 18, 4280-4304.	1.2	7
890	Grain boundary and particle interaction: Enveloping and pass-through mechanisms studied by 3D phase field crystal simulations. <i>Materials and Design</i> , 2022, 220, 110845.	3.3	8
891	Time-scale investigation with the modified phase field crystal method. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022, 30, 064001.	0.8	7
892	A general structural order parameter for the amorphous solidification of a supercooled liquid. <i>Journal of Chemical Physics</i> , 2022, 157, .	1.2	4
893	Structural phase-field crystal model for Lennard-Jones pair interaction potential. <i>Modelling and Simulation in Materials Science and Engineering</i> , 0, , .	0.8	0
894	Growth of Two-Dimensional Hexagonal Lattices in the Phase-Field Crystal Model. <i>JETP Letters</i> , 2022, 115, 728-734.	0.4	2
895	Derivation and analysis of a phase field crystal model for a mixture of active and passive particles. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2022, 30, 084001.	0.8	5
896	Atomic-Scale Investigation of the Pattern Formation of Quasicrystal Growth by Phase-Field Crystal Simulations. <i>Crystal Growth and Design</i> , 2022, 22, 5497-5503.	1.4	1
897	Molecular scale hydrodynamic theory of crystal nucleation and polycrystalline growth. <i>Journal of Crystal Growth</i> , 2022, 597, 126854.	0.7	4
898	Thermodynamics, formation dynamics, and structural correlations in the bulk amorphous phase of the phase-field crystal model. <i>Journal of Chemical Physics</i> , 2022, 157, .	1.2	4
899			

#	ARTICLE	IF	CITATIONS
900	Microscopic mechanism of nanoscale shear bands in an energetic molecular crystal ($\hat{I}\pm$ -RDX): A first-order structural phase transition. <i>Physical Review B</i> , 2022, 106, .	1.1	4
901	Complexity calculation for an amorphous metastable solid. <i>Journal of Non-Crystalline Solids</i> , 2022, 597, 121744.	1.5	1
902	Metastable states of microgel fluids with Hertzian interaction potentials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, , 128262.	1.2	1
903	The random first-order transition theory of active glass in the high-activity regime. <i>Journal of Physics Communications</i> , 2022, 6, 115001.	0.5	4
904	Density functional approach to elastic properties of three-dimensional dipole-spring models for magnetic gels. <i>Journal of Chemical Physics</i> , 2023, 158, .	1.2	2
905	Collective Variables for Crystallization Simulations”€from Early Developments to Recent Advances. <i>ACS Omega</i> , 2023, 8, 127-146.	1.6	9
906	Formation and Stability of the Crystalline Structures in Two-Mode Phase-Field Crystal Model. <i>Physics of the Solid State</i> , 2022, 64, 417-424.	0.2	0
907	Structures and freezing transitions in two-dimensional colloids with tunable repulsive interactions. <i>Fluid Phase Equilibria</i> , 2023, 568, 113726.	1.4	0
908	Dynamic density functional theory of multicomponent cellular membranes. <i>Physical Review Research</i> , 2023, 5, .	1.3	3
909	Point process microstructural model of metallic thin films with implications for coarsening. <i>Npj Computational Materials</i> , 2023, 9, .	3.5	2
910	Classical Density Functional Theory: Representability and Universal Bounds. <i>Journal of Statistical Physics</i> , 2023, 190, .	0.5	0
911	Amplitude expansion of the phase-field crystal model for complex crystal structures. <i>Physical Review Materials</i> , 2023, 7, .	0.9	2
912	One-mode Ginzburg-Landau theory of surface energy anisotropy. <i>Physical Review B</i> , 2023, 107, .	1.1	0
913	Theory and Simulations of Ionic Liquids in Nanoconfinement. <i>Chemical Reviews</i> , 2023, 123, 6668-6715.	23.0	24
921	Semantic segmentation of unmanned aerial vehicle image based on Resnet-Unet. , 2023, , .		0
925	Modeling Properties and Phenomena at High Temperatures: Atomistic and Phase-Field Approaches. , 2024, , 201-273.		0
927	Nonchiral Smectic Liquid Crystals. , 2024, , 263-326.		0