Keiko M Aoki

List of Publications by Year
in descending order

41 papers	504 citations	759233 12 h-index	677142 22 g-index
41 all docs	41 docs citations	41 times ranked	229 citing authors

#	Article	IF	Citations
1	Convective roll patterns in vertically vibrated beds of granules. Physical Review E, 1996, 54, 874-883.	2.1	107
2	Spontaneous Wave Pattern Formation in Vibrated Granular Materials. Physical Review Letters, 1996, 77, 4166-4169.	7.8	78
3	Simulation studies of pressure and density wave propagations in vertically vibrated beds of granules. Physical Review E, 1995, 52, 3288-3291.	2.1	35
4	Interaction of particles in a deformed nematic liquid crystal. Physical Review E, 2002, 66, 051711.	2.1	26
5	Symplectic Integrators Designed for Simulating Soft Matter. Journal of the Physical Society of Japan, 2008, 77, 044003.	1.6	18
6	Can Hydrophobic Oils Spread on Water as Condensed Langmuir Monolayers?. Journal of Physical Chemistry B, 2002, 106, 12089-12092.	2.6	17
7	Entropy and heat capacity calculations of simulated crystal–hexatic smectic-B–smectic-Aliquid-crystal phase transitions. Physical Review E, 2010, 81, 021701.	2.1	17
8	Investigation of Liquid Crystalline Phases by Means of Constant-Pressure Molecular-Dynamics Simulation. Molecular Crystals and Liquid Crystals, 1995, 262, 543-553.	0.3	15
9	Molecular dynamic simulation methods for anisotropic liquids. Journal of Chemical Physics, 2004, 120, 5576-5584.	3.0	15
10	Constant surface-tension molecular-dynamics simulation methods for anisotropic systems. Journal of Chemical Physics, 2006, 124, 064705.	3.0	14
11	Molecular dynamics studies of smecticBliquid crystals of soft parallel spherocylinders with sixfold bond orientational order. Physical Review Letters, 1992, 69, 2780-2782.	7.8	13
12	Extended methods of molecular dynamic simulations under hydrostatic pressure and/or isostress. Journal of Chemical Physics, 2003, 118, 9926-9936.	3.0	13
13	Order Parameter Discretization in Metastable States of Hexatic Smectic B Liquid Crystal. Journal of the Physical Society of Japan, 2011, 80, 124603.	1.6	12
14	A fractal property of vertically vibrated beds of granules. Chemical Engineering Science, 1996, 51, 3551-3553.	3.8	11
15	One-, Two-, and Three-Dimensional Hopping Dynamics. Crystals, 2013, 3, 315-332.	2.2	11
16	Investigations of Nematic-Isotropic Transition by Means of Constant Pressure Molecular Dynamics Simulations. Molecular Simulation, 1996, 16, 99-105.	2.0	10
17	A surface instability of granules under vibration in partitioned containers. Granular Matter, 2001, 3, 177-183.	2.2	10
18	Control parameter in granular convection. Physical Review E, 1998, 58, 4629-4637.	2.1	9

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19	SIMULATION STUDIES OF CRYSTAL-SMECTIC TRANSITION. Molecular Crystals and Liquid Crystals, 2001, 366, 117-124.	0.3	8
20	Scaling properties of soft-core parallel spherocylinders near the crystal–smectic-phase transition. Physical Review E, 1993, 48, 2025-2027.	2.1	7
21	Network Analysis of Free Energy Landscape of Metastable States of Hexatic Smectic B Liquid Crystal. Journal of the Physical Society of Japan, 2014, 83, 104603.	1.6	7
22	Effect of size polydispersity on granular materials. Physical Review E, 1996, 54, 1990-1996.	2.1	6
23	Fluctuations in Systems of Hexatic Smectic B Liquid Crystals. Molecular Crystals and Liquid Crystals, 2015, 612, 64-71.	0.9	6
24	Aoki and Akiyama Reply:. Physical Review Letters, 1997, 79, 4714-4714.	7.8	5
25	MOLECULAR DYNAMICS SIMULATIONS OF LIQUID CRYSTAL MOLECULES AT AN AIR-WATER INTERFACE. Molecular Crystals and Liquid Crystals, 2004, 413, 161-169.	0.9	5
26	Origin of Hopping Dynamics in Hexatic Smectic B and Smectic A Liquid Crystals. Molecular Crystals and Liquid Crystals, 2015, 612, 72-80.	0.9	5
27	Anisotropy in condensed matter – liquid crystals, glass, and phase coexistence. Journal of Physics: Conference Series, 2019, 1252, 012004.	0.4	4
28	Constant pressure molecular dynamics simulations of the crystal–smectic transition in systems of soft parallel spherocylinders as a model for liquid crystals. Liquid Crystals, 1993, 14, 1237-1242.	2.2	3
29	Structural transformation of smectic liquid crystals under surface tension. Molecular Crystals and Liquid Crystals, 2017, 647, 92-99.	0.9	3
30	Nonlinear Phenomena. Transitions in Convective Roll Patterns in Vibrated Particle Beds.. Kagaku Kogaku Ronbunshu, 1999, 25, 585-587.	0.3	2
31	MOLECULAR DYNAMICS SIMULATIONS OF SMECTIC C PHASE APPEARING IN LANGMUIR MONOLAYERS. Molecular Crystals and Liquid Crystals, 2004, 413, 151-159.	0.9	2
32	Entropy and Heat Capacity Calculations by Thermodynamic Approach. , 2014, , .		2
33	Dynamics and Elastic Properties of Glassy Metastable States. Solids, 2021, 2, 249-264.	2.4	2
34	Molecular Dynamics in the Light of Non-equilibrium Thermodynamics. Journal of the Physical Society of Japan, 2022, 91, .	1.6	2
35	Convection Roll Patterns for Fluidized Granules. Progress of Theoretical Physics Supplement, 1998, 130, 45-55.	0.1	1
36	INTERACTION BETWEEN SPHERICAL PARTICLES IN A DEFORMED LIQUID CRYSTAL. Molecular Crystals and Liquid Crystals, 2004, 413, 211-220.	0.9	1

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37	Correlated anomalous diffusion: Random walk and Langevin equation. Journal of Mathematical Physics, 2010, 51, 033302.	1.1	1
38	Bifurcations, Elastic Instability, and Reentrant in Smectic Liquid Crystals. Journal of the Physical Society of Japan, 2022, 91, .	1.6	1
39	Constant pressure molecular dynamics simulations of the crystal-smectic transition in systems of anisotropic soft-core molecules as a model for liquid crystals. Journal of Non-Crystalline Solids, 1993, 156-158, 986-990.	3.1	0
40	Nonlinear Phenomena. Bistability of Surface Levels in Two Dimensional Vibrating Particle Beds with Two Partitions.. Kagaku Kogaku Ronbunshu, 1999, 25, 520-524.	0.3	0
41	History-dependent structure in granular piles. , 2020, , 499-502.		0