Kazuaki Z Takahashi

List of Publications by Year
in descending order

31	367	759233	839539
papers	citations	12 h-index	18 g-index

32	32	32	253
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cutoff radius effect of the isotropic periodic sum and Wolf method in liquidâ€“vapor interfaces of water. Journal of Chemical Physics, 2011, 134, 174112.	3.0	39
2	Cutoff radius effect of the isotropic periodic sum method in homogeneous system. II. Water. Journal of Chemical Physics, 2010, 133, 014109.	3.0	32
3	Cutoff radius effect of isotropic periodic sum method for transport coefficients of Lennard-Jones liquid. Journal of Chemical Physics, 2007, 127, 114511.	3.0	28
4	Machine learning-aided analysis for complex local structure of liquid crystal polymers. Scientific Reports, 2019, 9, 16370.	3.3	27
5	Molecular Dynamics Simulations for Resolving Scaling Laws of Polyethylene Melts. Polymers, 2017, 9, 24.	4.5	25
6	Multistep nucleation of anisotropic molecules. Nature Communications, 2021, 12, 5278.	12.8	23
7	A combination of the tree-code and IPS method to simulate large scale systems by molecular dynamics. Journal of Chemical Physics, 2011, 135, 174108.	3.0	19
8	An Improved Isotropic Periodic Sum Method That Uses Linear Combinations of Basis Potentials. Journal of Chemical Theory and Computation, 2012, 8, 4503-4516.	5.3	16
9	Onset of static and dynamic universality among molecular models of polymers. Scientific Reports, 2017, 7, 12379.	3.3	15
10	Truncation Effects of Shift Function Methods in Bulk Water Systems. Entropy, 2013, 15, 3249-3264.	2.2	14
11	Mining of effective local order parameters for classifying crystal structures: A machine learning study. Journal of Chemical Physics, 2020, 152, 214501.	3.0	14
12	Searching local order parameters to classify water structures of ice Ih, Ic, and liquid. Journal of Chemical Physics, 2021, 154, 164505.	3.0	13
13	Cut-off radius effect of the isotropic periodic sum method for polar molecules in a bulk water system. Molecular Simulation, 2012, 38, 397-403.	2.0	12
14	Design of a reaction field using a linearâ€combinationâ€based isotropic periodic sum method. Journal of Computational Chemistry, 2014, 35, 865-875.	3.3	10
15	Development of Coarse-Grained Liquid-Crystal Polymer Model with Efficient Electrostatic Interaction: Toward Molecular Dynamics Simulations of Electroactive Materials. Materials, 2018, 11, 83.	2.9	10
16	Application of isotropic periodic sum method for 4-pentyl-4â€²-cyanobiphenyl liquid crystal. Molecular Simulation, 2015, 41, 927-935.	2.0	8
17	Critical test of beadâ€“spring model to resolve the scaling laws of polymer melts: a molecular dynamics study. Molecular Simulation, 2017, 43, 1196-1201.	2.0	8
18	Performance of Coarse Graining in Estimating Polymer Properties: Comparison with the Atomistic Model. Polymers, 2020, 12, 382.	4.5	7

#	Article	IF	Citations
19	Molecular architecture dependence of mesogen rotation during uniaxial elongation of liquid crystal elastomers. Polymer, 2021, 229, 123970.	3.8	7
20	Comparison of the accuracy of periodic reaction field methods in molecular dynamics simulations of a model liquid crystal system. Journal of Computational Chemistry, 2015, 36, 2406-2411.	3.3	6
21	Critical test of isotropic periodic sum techniques with group-based cut-off schemes. Scientific Reports, 2018, 8, 4185.	3.3	6
22	Searching for local order parameters to classify water structures at triple points. Journal of Computational Chemistry, 2021, 42, 1720-1727.	3.3	6
23	Mining of Effective Local Order Parameters to Classify Ice Polymorphs. Journal of Physical Chemistry A, 2021, 125, 9518-9526.	2.5	6
24	A determination of liquidâ€“vapour interfacial properties for methanol using a linear-combination-based isotropic periodic sum. Molecular Simulation, 2015, 41, 795-800.	2.0	4
25	An improvement of truncation method by a novel reaction field: Accurate computation for estimating methanol liquidâ€“vapor interfacial systems. Computational Materials Science, 2015, 100, 191-194.	3.0	3
26	Trade-off effect between the stress and strain range in the soft elasticity of liquid crystalline elastomers. Polymer Journal, 2022, 54, 1017-1027.	2.7	3
27	A fast and accurate computational method for the linear-combination-based isotropic periodic sum. Scientific Reports, 2018, 8, 11880.	3.3	2
28	Screening toward the Development of Fingerprints of Atomic Environments Using Bond-Orientational Order Parameters. ACS Omega, 2022, 7, 4606-4613.	3.5	2
29	Combined use of periodic reaction field and coarse-grained molecular dynamics simulations. I. phospholipid monolayer systems. Molecular Simulation, 2017, 43, 971-976.	2.0	1
30	Molecular dynamics study on structual change in the surface membrane of an insonified coated microbubble. , 2012, , .		0
31	Cutoff Radius Effect of Water Configuration Using the Wolf Method. , 2011, , .		0