

# James T Kindt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6726487/publications.pdf>

Version: 2024-02-01

43  
papers

801  
citations

516710

16  
h-index

526287

27  
g-index

44  
all docs

44  
docs citations

44  
times ranked

979  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Dynamics Simulations of the Lipid Bilayer Edge. <i>Biophysical Journal</i> , 2004, 87, 182-192.	0.5	87
2	Coarse-Grained Model Simulations of Mixed-Lipid Systems: Composition and Line Tension of a Stabilized Bilayer Edge. <i>Langmuir</i> , 2006, 22, 998-1005.	3.5	46
3	Monte Carlo simulation of the self-assembly and phase behavior of semiflexible equilibrium polymers. <i>Journal of Chemical Physics</i> , 2004, 120, 10328-10338.	3.0	44
4	Bilayer Edge and Curvature Effects on Partitioning of Lipids by Tail Length: Atomistic Simulations. <i>Biophysical Journal</i> , 2008, 95, 2647-2657.	0.5	41
5	Atomistic Simulations of Mixed-Lipid Bilayers in Gel and Fluid Phases. <i>Langmuir</i> , 2009, 25, 352-359.	3.5	37
6	Bulk Self-Assembly of Giant, Unilamellar Vesicles. <i>ACS Nano</i> , 2020, 14, 14627-14634.	14.6	37
7	Chain self-assembly and phase transitions in semiflexible polymer systems. <i>Journal of Chemical Physics</i> , 2001, 114, 1432-1439.	3.0	36
8	Simulation and Theory of Self-Assembled Networks: Ends, Junctions, and Loops. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8223-8232.	2.6	35
9	Dynamics of the Gel to Fluid Phase Transformation in Unilamellar DPPC Vesicles. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13749-13756.	2.6	33
10	Determination of Phase Transition Temperatures for Atomistic Models of Lipids from Temperature-Dependent Stripe Domain Growth Kinetics. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11468-11473.	2.6	32
11	Chemistry Unbound: Designing a New Four-Year Undergraduate Curriculum. <i>Journal of Chemical Education</i> , 2019, 96, 35-46.	2.3	32
12	Atomistic Simulations of Bicelle Mixtures. <i>Biophysical Journal</i> , 2010, 98, 2895-2903.	0.5	29
13	Equilibrium Distributions of Dipalmitoyl Phosphatidylcholine and Dilauroyl Phosphatidylcholine in a Mixed Lipid Bilayer: Atomistic Semigrand Canonical Ensemble Simulations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25875-25882.	2.6	28
14	Molecular Simulation of the DPPE Lipid Bilayer Gel Phase: Coupling between Molecular Packing Order and Tail Tilt Angle. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8725-8733.	2.6	25
15	Simulations of edge behavior in a mixed-lipid bilayer: Fluctuation analysis. <i>Journal of Chemical Physics</i> , 2007, 126, 045105.	3.0	23
16	Atomistic Simulation of Hydrophobic Matching Effects on Lipid Composition near a Helical Peptide Embedded in Mixed-Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8076-8080.	2.6	21
17	Accounting for Finite-Number Effects on Cluster Size Distributions in Simulations of Equilibrium Aggregation. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 147-152.	5.3	16
18	Hydrophobic Mismatch and Lipid Sorting Near OmpA in Mixed Bilayers: Atomistic and Coarse-Grained Simulations. <i>Biophysical Journal</i> , 2012, 102, 2279-2287.	0.5	15

#	ARTICLE	IF	CITATIONS
19	Coarse-grained molecular simulations of the melting kinetics of small unilamellar vesicles. <i>Soft Matter</i> , 2016, 12, 1765-1777.	2.7	15
20	Line Tension Assists Membrane Permeation at the Transition Temperature in Mixed-Phase Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11740-11750.	2.6	14
21	Simulations of NaCl Aggregation from Solution: Solvent Determines Topography of Free Energy Landscape. <i>Journal of Computational Chemistry</i> , 2019, 40, 135-147.	3.3	13
22	Cluster Free Energies from Simple Simulations of Small Numbers of Aggregants: Nucleation of Liquid MTBE from Vapor and Aqueous Phases. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 1023-1033.	5.3	12
23	Extracting Aggregation Free Energies of Mixed Clusters from Simulations of Small Systems: Application to Ionic Surfactant Micelles. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5195-5206.	5.3	12
24	Atomistic simulation of mixed-lipid bilayers: mixed methods for mixed membranes. <i>Molecular Simulation</i> , 2011, 37, 516-524.	2.0	11
25	Binding, folding and insertion of a $\beta$ -hairpin peptide at a lipid bilayer surface: Influence of electrostatics and lipid tail packing. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 792-800.	2.6	11
26	Simulation and theory of self-assembly and network formation in reversibly cross-linked equilibrium polymers. <i>Journal of Chemical Physics</i> , 2005, 123, 144901.	3.0	10
27	Simulation and theory of flexible equilibrium polymers under poor solvent conditions. <i>Journal of Chemical Physics</i> , 2007, 126, 134906.	3.0	10
28	Pivot-coupled grand canonical Monte Carlo method for ring simulations. <i>Journal of Chemical Physics</i> , 2002, 116, 6817-6825.	3.0	9
29	Grand canonical Monte Carlo using solvent repacking: Application to phase behavior of hard disk mixtures. <i>Journal of Chemical Physics</i> , 2015, 143, 124109.	3.0	9
30	Engineering DNA-Functionalized Nanostructures to Bind Nucleic Acid Targets Heteromultivalently with Enhanced Avidity. <i>Journal of the American Chemical Society</i> , 2020, 142, 9653-9660.	13.7	9
31	Partitioning of Size-Mismatched Impurities to Grain Boundaries in 2d Solid Hard-Sphere Monolayers. <i>Langmuir</i> , 2018, 34, 12947-12956.	3.5	8
32	Derivation of micelle size-dependent free energies of aggregation for octyl phosphocholine from molecular dynamics simulation. <i>Fluid Phase Equilibria</i> , 2019, 485, 83-93.	2.5	8
33	Simulations of grain boundaries between ordered hard sphere monolayer domains: Orientation-dependent stiffness and its correlation with grain coarsening dynamics. <i>Journal of Chemical Physics</i> , 2018, 149, 044503.	3.0	5
34	Subtle changes in pH affect the packing and robustness of fatty acid bilayers. <i>Soft Matter</i> , 2022, 18, 3498-3504.	2.7	5
35	Gibbs ensemble Monte Carlo with solvent repacking: phase coexistence of size- $\epsilon$ asymmetrical binary Lennard-Jones mixtures. <i>Molecular Simulation</i> , 2018, 44, 300-308.	2.0	4
36	Determining Bulk Equilibrium Constants for Cluster Formation from Constant NVT Ensemble Simulations at Small N. <i>Physics Procedia</i> , 2014, 53, 63-70.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Grand Canonical Monte Carlo Simulations of Equilibrium Polymers and Networks. ACS Symposium Series, 2003, , 298-312.	0.5	2
38	Effects of defects on the shear stress relaxation in self-assembled protein networks. Soft Matter, 2012, 8, 2895.	2.7	2
39	On the Relationship Between Plateau Modulus and Shear Relaxation Time in Transient Networks. Macromolecular Theory and Simulations, 2015, 24, 208-217.	1.4	2
40	Free energy of micellization of dodecyl phosphocholine ( DPC ) from molecular simulation: Hybrid PEACH&BARR method. Journal of Computational Chemistry, 2021, 42, 2221-2232.	3.3	2
41	Size-asymmetrical Lennard-Jones solid solutions: Interstitials and substitutions. Journal of Chemical Physics, 2018, 148, 164504.	3.0	1
42	Competing factors in grain boundary loop shrinkage: Two-dimensional hard sphere colloidal crystals. Journal of Chemical Physics, 2019, 151, 084505.	3.0	1
43	Ordering of colloidal hard spheres under gravity: from monolayer to multilayer. Soft Matter, 2019, 15, 1027-1037.	2.7	1