

Yanting Wang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2621611/yanting-wang-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

4,476

citations

30

h-index

66

g-index

90

ext. papers

4,915

ext. citations

4.3

avg, IF

5.81

L-index

#	Paper	IF	Citations
83	Unique spatial heterogeneity in ionic liquids. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12192-12196	26.4	853
82	Molecular dynamics simulation of nanostructural organization in ionic liquid/water mixtures. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4812-8	3.4	395
81	Tail aggregation and domain diffusion in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18601-8	3.4	365
80	Understanding ionic liquids through atomistic and coarse-grained molecular dynamics simulations. <i>Accounts of Chemical Research</i> , 2007 , 40, 1193-9	24.3	285
79	The multiscale coarse-graining method. II. Numerical implementation for coarse-grained molecular models. <i>Journal of Chemical Physics</i> , 2008 , 128, 244115	3.9	284
78	Melting of icosahedral gold nanoclusters from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2005 , 122, 214722	3.9	171
77	Multiscale coarse-graining of ionic liquids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3564-75	3.4	158
76	Real-time mass spectrometric characterization of the solid-electrolyte interphase of a lithium-ion battery. <i>Nature Nanotechnology</i> , 2020 , 15, 224-230	28.7	156
75	Effect of the chain length on the structure of ionic liquids: from spatial heterogeneity to ionic liquid crystals. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1104-9	3.4	117
74	Tuning the self-assembly of short peptides via sequence variations. <i>Langmuir</i> , 2013 , 29, 13457-64	4	103
73	A Multiscale Coarse-Graining Study of the Liquid/Vacuum Interface of Room-Temperature Ionic Liquids with Alkyl Substituents of Different Lengths. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1132-1139	3.8	100
72	Effective force coarse-graining. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2002-15	3.6	97
71	Dual Ionic and Organic Nature of Ionic Liquids. <i>Scientific Reports</i> , 2016 , 6, 19644	4.9	76
70	Molecular dynamics simulation of the energetic room-temperature ionic liquid, 1-hydroxyethyl-4-amino-1,2,4-triazolium nitrate (HEATN). <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3121-31	3.4	74
69	Melting and equilibrium shape of icosahedral gold nanoparticles. <i>Chemical Physics Letters</i> , 2004 , 394, 257-261	2.5	69
68	Transferable Coarse-Grained Models for Ionic Liquids. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 1091-8	6.4	66
67	Surface-driven bulk reorganization of gold nanorods. <i>Nano Letters</i> , 2005 , 5, 2174-8	11.5	65

66	On the structure of ionic liquids: comparisons between electronically polarizable and nonpolarizable models I. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 6905-21	3.4	61
65	Atomic origins of water-vapour-promoted alloy oxidation. <i>Nature Materials</i> , 2018 , 17, 514-518	27	59
64	Template-based and free modeling of I-TASSER and QUARK pipelines using predicted contact maps in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86 Suppl 1, 136-151	4.2	58
63	Structural and Morphological Transitions in Gold Nanorods: A Computer Simulation Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9214-9219	3.4	57
62	On the dynamics of ionic liquids: comparisons between electronically polarizable and nonpolarizable models II. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 6886-904	3.4	55
61	NeBcon: protein contact map prediction using neural network training coupled with naïve Bayes classifiers. <i>Bioinformatics</i> , 2017 , 33, 2296-2306	7.2	52
60	Molecular dynamics simulations of polyglutamine aggregation using solvent-free multiscale coarse-grained models. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8735-43	3.4	46
59	Ion-cage interpretation for the structural and dynamic changes of ionic liquids under an external electric field. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 5102-12	3.4	41
58	Disordering and reordering of ionic liquids under an external electric field. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 11058-60	3.4	41
57	Insights on the isotropic-to-smectic A transition in ionic liquid crystals from coarse-grained molecular dynamics simulations: the role of microphase segregation. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 3829-36	3.4	40
56	Structures and Energetics of Silver and Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11374-11381	3.8	34
55	Intrinsic electric fields in ionic liquids determined by vibrational Stark effect spectroscopy and molecular dynamics simulation. <i>Chemistry - A European Journal</i> , 2012 , 18, 11904-8	4.8	31
54	Different nanostructures caused by competition of intra- and inter-sheet interactions in hierarchical self-assembly of short peptides. <i>Journal of Colloid and Interface Science</i> , 2016 , 464, 219-28	9.3	30
53	Diffusion mechanisms in smectic ionic liquid crystals: insights from coarse-grained MD simulations. <i>Soft Matter</i> , 2013 , 9, 5716	3.6	30
52	Structural, dynamic, and transport properties of concentrated aqueous sodium chloride solutions under an external static electric field. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4404-11	3.4	24
51	Spatial Heterogeneity in Ionic Liquids. <i>ACS Symposium Series</i> , 2007 , 272-307	0.4	23
50	Role of the Electrostatic Interactions in the Stabilization of Ionic Liquid Crystals: Insights from Coarse-Grained MD Simulations of an Imidazolium Model. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 9152-60	3.4	22
49	Molecular origin of the self-assembled morphological difference caused by varying the order of charged residues in short peptides. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12501-10	3.4	21

48	Nanoparticle-based crystal growth via multistep self-assembly. <i>CrystEngComm</i> , 2013 , 15, 5114	3.3	21
47	Investigation of Ion-Solvent Interactions in Nonaqueous Electrolytes Using in Situ Liquid SIMS. <i>Analytical Chemistry</i> , 2018 , 90, 3341-3348	7.8	19
46	Concentration and temperature dependences of polyglutamine aggregation by multiscale coarse-graining molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10135-44	3.4	19
45	Influence of the ion size on the stability of the smectic phase of ionic liquid crystals. <i>Soft Matter</i> , 2020 , 16, 411-420	3.6	19
44	Molecular Origin of Donor- and Acceptor-Rich Domain Formation in Bulk-Heterojunction Solar Cells with an Enhanced Charge Transport Efficiency. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5864-5870	3.8	16
43	The Evidence for Fullerene Aggregation in High-Performance Small-Molecule Solar Cells by Molecular Dynamics Simulation. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500217	6.4	16
42	Metastable State during Melting and Solid-Solid Phase Transition of [CMim][NO] (n = 4-12) Ionic Liquids by Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 229-239	3.4	15
41	Hydrogen-bond rich ionic liquids with hydroxyl cationic tails. <i>Chemical Physics Letters</i> , 2013 , 560, 32-36	2.5	14
40	Microscopic structure and dynamics of air/water interface by computer simulations--comparison with sum-frequency generation experiments. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5388-93	3.6	14
39	Nanoscale Tail Aggregation in Ionic Liquids: Roles of Electrostatic and van der Waals Interactions. <i>Communications in Theoretical Physics</i> , 2011 , 56, 499-503	2.4	14
38	Effect of Ion Rigidity on Physical Properties of Ionic Liquids Studied by Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5678-90	3.4	12
37	Effect of side-chain length on structural and dynamic properties of ionic liquids with hydroxyl cationic tails. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 3642-9	3.4	10
36	Effect of Surface Structure on Shape Transformations of Gold Nanorods. <i>Journal of Computational and Theoretical Nanoscience</i> , 2007 , 4, 282-290	0.3	10
35	Modeling Elastically Mediated Liquid-Liquid Phase Separation. <i>Physical Review Letters</i> , 2020 , 125, 268001	7.4	10
34	Interplay between Intrinsic Conformational Propensities and Intermolecular Interactions in the Self-Assembly of Short Surfactant-like Peptides Composed of Leucine/Isoleucine. <i>Langmuir</i> , 2016 , 32, 4662-72	4	10
33	Communication: Probing the existence of partially arrested states in ionic liquids. <i>Journal of Chemical Physics</i> , 2016 , 145, 191101	3.9	8
32	A brief review of continuous models for ionic solutions: the Poisson-Boltzmann and related theories. <i>Communications in Theoretical Physics</i> , 2020 , 72, 067601	2.4	7
31	Aggregation behavior of dihexadecylviologen bistriflimide ionic liquid crystal in different solvents: influence of polarity and concentration. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22730-22738	3.6	7

30	Continuous-time Monte Carlo and spatial ordering in driven lattice gases: Application to driven vortices in periodic superconducting networks. <i>Physical Review B</i> , 2005 , 72,	3.3	7
29	Phase Behaviors of Ionic Liquids Heating from Different Crystal Polymorphs toward the Same Smectic-A Ionic Liquid Crystal by Molecular Dynamics Simulation. <i>Crystals</i> , 2019 , 9, 26	2.3	6
28	Diffusion-Limited Aggregation with Polygon Particles. <i>Communications in Theoretical Physics</i> , 2012 , 58, 895-901	2.4	6
27	Equilibrium sampling by reweighting nonequilibrium simulation trajectories. <i>Physical Review E</i> , 2016 , 93, 033309	2.4	5
26	Dynamic heterogeneity in aqueous ionic solutions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 21313-21324	2.4	5
25	Surface structure of ionic liquids under an external electric field. <i>Molecular Simulation</i> , 2017 , 43, 1295-1299		4
24	Percolation Phase Transition from Ionic Liquids to Ionic Liquid Crystals. <i>Scientific Reports</i> , 2019 , 9, 13169	4.9	4
23	Jarzynski matrix equality: Calculating the free-energy difference by nonequilibrium simulations with an arbitrary initial distribution. <i>Physical Review E</i> , 2016 , 93, 043312	2.4	4
22	Heterogeneous Responses of Chinese Cities Housing Prices to Monetary Policies. <i>Communications in Theoretical Physics</i> , 2011 , 56, 791-796	2.4	4
21	Solution structure of extracellular loop of human β subunit of BK channel and its biological implication on ChTX sensitivity. <i>Scientific Reports</i> , 2018 , 8, 4571	4.9	3
20	Poisson-Boltzmann theory with non-linear ion correlations. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 355101	1.8	3
19	Saturated sodium chloride solution under an external static electric field: A molecular dynamics study. <i>Chinese Physics B</i> , 2015 , 24, 126402	1.2	3
18	Intrinsic defect formation in peptide self-assembly. <i>Applied Physics Letters</i> , 2015 , 107, 043701	3.4	3
17	Reversible transient nucleation in ionic solutions as the precursor of ion crystallization. <i>Europhysics Letters</i> , 2014 , 107, 30005	1.6	3
16	Interaction of gas molecules with crystalline polymer separation membranes: Atomic-scale modeling and first-principles calculations. <i>Journal of Membrane Science</i> , 2011 , 384, 176-183	9.6	3
15	Liquid-Liquid Phase Separation of Viologen Bistriflimide/Benzene Mixtures: Role of the Dual Ionic and Organic Nature of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7929-7937	3.4	3
14	Formation and dissociation of protonated cytosine-uracil base pairs in i-motifs by ab initio quantum chemical calculations. <i>Chinese Physics B</i> , 2014 , 23, 020702	1.2	2
13	Melting Phase Transitions and Catalytic Activity of Bilayer Gold Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10517-10520	3.8	2

12	Modulation of intra- and inter-sheet interactions in short peptide self-assembly by acetonitrile in aqueous solution. <i>Chinese Physics B</i> , 2016 , 25, 128704	1.2	2
11	Fast adaptive flat-histogram ensemble to enhance the sampling in large systems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1	3.6	1
10	Anisotropic formation mechanism and nanomechanics for the self-assembly process of cross- β peptides. <i>Chinese Physics B</i> , 2017 , 26, 128701	1.2	1
9	Competition between attraction and diffusion in nanoscale non-equilibrium aggregation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012 , 55, 2237-2243	3.6	1
8	Multiscale computational prediction of β -sheet peptide self-assembly morphology. <i>Molecular Simulation</i> , 2021 , 47, 428-438	2	1
7	Thermal properties of a two-dimensional intrinsically curved semiflexible biopolymer. <i>Chinese Physics B</i> , 2017 , 26, 038701	1.2	0
6	Conservation of the Stokes-Einstein relation in supercooled water. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 24541-24544	3.6	0
5	Folding nucleus and unfolding dynamics of protein 2GB1*. <i>Chinese Physics B</i> , 2021 , 30, 028703	1.2	0
4	Moderate point: Balanced entropy and enthalpy contributions in soft matter. <i>Chinese Physics B</i> , 2017 , 26, 030506	1.2	
3	Statistical mechanics of a nonequilibrium steady-state classical particle system driven by a constant external force. <i>Communications in Theoretical Physics</i> , 2020 , 72, 115601	2.4	
2	Basics of Molecular Modeling and Molecular Simulation. <i>Soft and Biological Matter</i> , 2021 , 197-240	0.8	
1	Modulation of intra- and inter-sheet interactions in short peptide self-assembly by acetonitrile in aqueous solution. <i>Chinese Physics B</i> , 2016 , 25, 128700	1.2	