

Wang Yonglei

List of Publications by Year in Descending Order

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

68

papers

1,322

citations

22

h-index

34

g-index

75

ext. papers

1,680

ext. citations

6.2

avg, IF

5.04

L-index

#	Paper	IF	Citations
68	Effect of structural variation in biomass-derived nonfluorinated ionic liquids electrolytes on the performance of supercapacitors. <i>Journal of Energy Chemistry</i> , 2022 , 69, 174-184	12	1
67	Molecular Perspective on Solutions and Liquid Mixtures from Modelling and Experiment. <i>Springer Proceedings in Physics</i> , 2022 , 53-84	0.2	1
66	A hybrid MPI-CUDA approach for nonequispaced discrete Fourier transformation. <i>Computer Physics Communications</i> , 2021 , 258, 107513	4.2	
65	A Ruthenium(II) complex-based probe for colorimetric and luminescent detection and imaging of hydrogen sulfide in living cells and organisms. <i>Analytica Chimica Acta</i> , 2021 , 1145, 114-123	6.6	5
64	Coarse-grained simulations of ionic liquid materials: from monomeric ionic liquids to ionic liquid crystals and polymeric ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19435-19456	3.6	2
63	Phase Transitions of Oppositely Charged Colloidal Particles Driven by Alternating Current Electric Field. <i>ACS Nano</i> , 2021 , 15, 2363-2373	16.7	0
62	A Halogen-Free and Flame-Retardant Sodium Electrolyte Compatible with Hard Carbon Anodes (Adv. Mater. Interfaces 23/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170133	4.6	
61	Effect of Aromaticity in Anion on the Cation-Anion Interactions and Ionic Mobility in Fluorine-Free Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11962-11973	3.4	4
60	"Two Birds with One Stone" Ruthenium(II) Complex Probe for Biothiols Discrimination and Detection In Vitro and In Vivo. <i>Advanced Science</i> , 2020 , 7, 2000458	13.6	18
59	The coarse-grained models of poly(ethylene oxide) and poly(propylene oxide) homopolymers and poloxamers in big multipole water (BMW) and MARTINI frameworks. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15976-15985	3.6	6
58	The Effect of Phenyl Substitutions on Microstructures and Dynamics of Tetraalkylphosphonium Bis(trifluoro- methylsulfonyl)imide Ionic Liquids. <i>ChemPhysChem</i> , 2020 , 21, 1202-1214	3.2	2
57	Crosslinking of a Single Poly(ionic liquid) by Water into Porous Supramolecular Membranes. <i>Angewandte Chemie</i> , 2020 , 132, 17340-17344	3.6	1
56	Crosslinking of a Single Poly(ionic liquid) by Water into Porous Supramolecular Membranes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17187-17191	16.4	12
55	How Molecular Chiralities of Bis(mandelato)borate Anions Affect Their Binding Structures With Alkali Metal Ions and Microstructural Properties in Tetraalkylphosphonium Ionic Liquids. <i>Frontiers in Chemistry</i> , 2020 , 8, 65	5	2
54	Responsive ruthenium complex probe for phosphorescence and time-gated luminescence detection of bisulfite. <i>Dalton Transactions</i> , 2020 , 49, 5531-5538	4.3	4
53	Effects of Nitridation and Vinylation of Imidazolium Rings on Hydrogen Bonding Interactions, π -Stacking Structures, and Dynamical Heterogeneities in Imidazolium and Triazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7452-7466	3.4	2
52	Luminescent Thermochromic Silver Iodides as Wavelength-Dependent Thermometers. <i>Inorganic Chemistry</i> , 2020 , 59, 13067-13077	5.1	3

51	The ENUF method-Ewald summation based on nonuniform fast Fourier transform: Implementation, parallelization, and application. <i>Journal of Computational Chemistry</i> , 2020 , 41, 2316-2335	3.5	0
50	Microstructural and Dynamical Heterogeneities in Ionic Liquids. <i>Chemical Reviews</i> , 2020 , 120, 5798-5877	68.1	120
49	Poly(Ionic Liquid)-Derived Graphitic Nanoporous Carbon Membrane Enables Superior Supercapacitive Energy Storage. <i>ACS Nano</i> , 2019 , 13, 10261-10271	16.7	32
48	Electro-Responsive Surface Composition and Kinetics of an Ionic Liquid in a Polar Oil. <i>Langmuir</i> , 2019 , 35, 15692-15700	4	15
47	A New Red-Emitting Fluorescence Probe for Rapid and Effective Visualization of Bisulfite in Food Samples and Live Animals. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 4375-4383	5.7	31
46	"Dual-Key-and-Lock" Ruthenium Complex Probe for Lysosomal Formaldehyde in Cancer Cells and Tumors. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8462-8472	16.4	83
45	Imidazole and 1-Methylimidazole Hydrogen Bonding and Nonhydrogen Bonding Liquid Dynamics: Ultrafast IR Experiments. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2094-2105	3.4	11
44	4. Multigranular modeling of ionic liquids	2019, 55-100	4
43	Iridium(III) Complex-Based Activatable Probe for Phosphorescent/Time-Gated Luminescent Sensing and Imaging of Cysteine in Mitochondria of Live Cells and Animals. <i>Chemistry - A European Journal</i> , 2019 , 25, 1498-1506	4.8	28
42	Turn-On Fluorescence Probe for Nitric Oxide Detection and Bioimaging in Live Cells and Zebrafish. <i>ACS Sensors</i> , 2019 , 4, 309-316	9.2	33
41	Electrostatic interactions in soft particle systems: mesoscale simulations of ionic liquids. <i>Soft Matter</i> , 2018 , 14, 4252-4267	3.6	17
40	Quantitative Monitoring and Visualization of Hydrogen Sulfide In Vivo Using a Luminescent Probe Based on a Ruthenium(II) Complex. <i>Angewandte Chemie</i> , 2018 , 130, 4063-4068	3.6	8
39	Quantitative Monitoring and Visualization of Hydrogen Sulfide In Vivo Using a Luminescent Probe Based on a Ruthenium(II) Complex. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3999-4004	16.4	76
38	Rheology of phosphonium ionic liquids: a molecular dynamics and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10193-10203	3.6	17
37	The influence of hydrophilicity on the orientational dynamics and structures of imidazolium-based ionic liquid/water binary mixtures. <i>Journal of Chemical Physics</i> , 2018 , 149, 044501	3.9	16
36	Shear flow simulations of smectic liquid crystals based on the Gay-Berne fluid and the soft sphere string-fluid. <i>Physical Chemistry Chemical Physics</i> , 2018 , 21, 292-305	3.6	6
35	Dynamics and Microstructures of Nicotine/Water Binary Mixtures near the Lower Critical Solution Temperature. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9538-9548	3.4	7
34	Development of a ruthenium(II) complex-based luminescence probe for detection of hydrogen sulfite in food samples. <i>Microchemical Journal</i> , 2018 , 141, 181-187	4.8	11

33	Competitive Microstructures Versus Cooperative Dynamics of Hydrogen Bonding and π -Type Stacking Interactions in Imidazolium Bis(oxalato)borate Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6570-6585	3.4	17
32	Red-Emitting Ruthenium(II) and Iridium(III) Complexes as Phosphorescent Probes for Methylglyoxal in Vitro and in Vivo. <i>Inorganic Chemistry</i> , 2017 , 56, 1309-1318	5.1	32
31	Interfacial Structures of Trihexyltetradecylphosphonium-bis(mandelato)borate Ionic Liquid Confined between Gold Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4976-4987	9.5	20
30	Correlated/non-correlated ion dynamics of charge-neutral ion couples: the origin of ionicity in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4975-4988	3.6	28
29	Ultrafast to Ultraslow Dynamics of a Langmuir Monolayer at the Air/Water Interface Observed with Reflection Enhanced 2D IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16518-16527	16.4	31
28	Hydrogen Bonding versus π -Stacking Interactions in Imidazolium-Oxalatoborate Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7173-7179	3.4	30
27	A hybrid parallel architecture for electrostatic interactions in the simulation of dissipative particle dynamics. <i>Computer Physics Communications</i> , 2017 , 220, 376-389	4.2	4
26	Impact of Hydrogen Bonding on the Dynamics and Structure of Protic Ionic Liquid/Water Binary Mixtures. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8564-8576	3.4	35
25	A unique iridium(III) complex-based chemosensor for multi-signal detection and multi-channel imaging of hypochlorous acid in liver injury. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 1005-1011	11.8	98
24	Microstructures and dynamics of tetraalkylphosphonium chloride ionic liquids. <i>Journal of Chemical Physics</i> , 2017 , 147, 224502	3.9	15
23	Understanding the thermal decomposition mechanism of a halogen-free chelated orthoborate-based ionic liquid: a combined computational and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22458-66	3.6	20
22	Thermomechanical coupling in coarse grained cholesteric liquid crystal model systems with pitches of realistic length. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16822-9	3.6	4
21	Fused coarse-grained model of aromatic ionic liquids and their behaviour at electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8165-73	3.6	7
20	Accelerating electrostatic interaction calculations with graphical processing units based on new developments of Ewald method using non-uniform fast Fourier transform. <i>Journal of Computational Chemistry</i> , 2016 , 37, 378-87	3.5	8
19	Atomistic Insight into Tetraalkylphosphonium Bis(oxalato)borate Ionic Liquid/Water Mixtures. 2. Volumetric and Dynamic Properties. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7446-55	3.4	22
18	Self-diffusion in the non-Newtonian regime of shearing liquid crystal model systems based on the Gay-Berne potential. <i>Journal of Chemical Physics</i> , 2016 , 144, 054901	3.9	2
17	Solvation structures of water in trihexyltetradecylphosphonium-orthoborate ionic liquids. <i>Journal of Chemical Physics</i> , 2016 , 145, 064507	3.9	22
16	Atomistic Insight into Tetraalkylphosphonium-Bis(oxalato)borate Ionic Liquid/Water Mixtures. I. Local Microscopic Structure. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5251-64	3.4	34

15	Multiscale modeling of the trihexyltetradecylphosphonium chloride ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 22125-35	3.6	16
14	Non-Newtonian rheological properties of shearing nematic liquid crystal model systems based on the Gay-Berne potential. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16615-23	3.6	8
13	Interfacial structure and orientation of confined ionic liquids on charged quartz surfaces. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23329-39	3.6	38
12	Heterogeneous dynamics of ionic liquids in confined films with varied film thickness. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20731-40	3.6	26
11	Atomistic insight into orthoborate-based ionic liquids: force field development and evaluation. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8711-23	3.4	43
10	Non-Uniform FFT and Its Applications in Particle Simulations. <i>Applied Mathematics</i> , 2014 , 05, 520-541	0.4	10
9	CompChem and NMR Probing Ionic Liquids. <i>Soft and Biological Matter</i> , 2014 , 97-126	0.8	4
8	Influence of ionic liquid film thickness on ion pair distributions and orientations at graphene and vacuum interfaces. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13559-69	3.6	39
7	Towards larger spatiotemporal scales in polymer simulations. <i>Science Bulletin</i> , 2013 , 58, 3595-3599		2
6	An introduction to dissipative particle dynamics. <i>Methods in Molecular Biology</i> , 2013 , 924, 617-33	1.4	12
5	Implementation of non-uniform FFT based Ewald summation in dissipative particle dynamics method. <i>Journal of Computational Physics</i> , 2013 , 235, 666-682	4.1	18
4	Multiscale coarse-grained simulations of ionic liquids: comparison of three approaches to derive effective potentials. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7701-12	3.6	38
3	Molecular Dynamics Study of Aqueous Solution of Polyethylene Oxide: Critical Test of Force Field Models. <i>Soft Materials</i> , 2013 , 11, 371-383	1.7	15
2	Specific binding structures of dendrimers on lipid bilayer membranes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8348-59	3.6	37
1	Skin-Inspired Healable Conductive Elastomers with Exceptional Strain-Adaptive Stiffening and Damage Tolerance. <i>Macromolecules</i> ,	5.5	5