

Zhi-Wu Yu

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104
papers

2,774
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28
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108
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3,170
ext. citations

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5.33
L-index

#	Paper	IF	Citations
104	The hydrogen bonding interactions between the ionic liquid 1-ethyl-3-methylimidazolium ethyl sulfate and water. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4747-54	3.4	193
103	The role of methyl groups in the formation of hydrogen bond in DMSO-methanol mixtures. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1438-9	16.4	151
102	Hydrogen-bonding interactions between [BMIM][BF ₄] and acetonitrile. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18055-64	3.6	121
101	Enzyme-Mediated Tumor Starvation and Phototherapy Enhance Mild-Temperature Photothermal Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 1909391	15.6	108
100	Hydrogen bonding behaviors of binary systems containing the ionic liquid 1-butyl-3-methylimidazolium trifluoroacetate and water/methanol. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11127-36	3.4	103
99	The modulation of membrane structure and stability by dimethyl sulphoxide (review). <i>Molecular Membrane Biology</i> , 1998 , 15, 59-68	3.4	101
98	Hydrogen bonding interactions between a representative pyridinium-based ionic liquid [BuPy][BF ₄] and water/dimethyl sulfoxide. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8689-700	3.4	97
97	Excess infrared absorption spectroscopy and its applications in the studies of hydrogen bonds in alcohol-containing binary mixtures. <i>Applied Spectroscopy</i> , 2008 , 62, 166-70	3.1	85
96	Characterization of the Liquid-Expanded to Liquid-Condensed Phase Transition of Monolayers by Means of Compressibility. <i>Langmuir</i> , 2002 , 18, 4530-4531	4	79
95	Plasma membrane activatable polymeric nanotheranostics with self-enhanced light-triggered photosensitizer cellular influx for photodynamic cancer therapy. <i>Journal of Controlled Release</i> , 2017 , 255, 231-241	11.7	63
94	Validity and Reliability of Benesi-Hildebrand Method. <i>Acta Physico-chimica Sinica</i> , 2007 , 23, 1353-1359		63
93	Insights into the Hydrogen Bond Interactions in Deep Eutectic Solvents Composed of Choline Chloride and Polyols. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7760-7767	8.3	62
92	Determination of Selective Molecular Interactions Using Two-Dimensional Correlation FT-IR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 6683-6687	2.8	62
91	Condensation effect of cholesterol, stigmaterol, and sitosterol on dipalmitoylphosphatidylcholine in molecular monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 293, 123-129	5.1	52
90	The partition of cholesterol between ordered and fluid bilayers of phosphatidylcholine: a synchrotron X-ray diffraction study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 2873-81	3.8	50
89	Solvation effects of dimethyl sulphoxide on the structure of phospholipid bilayers. <i>Biophysical Chemistry</i> , 1998 , 70, 35-9	3.5	46
88	Nonsynchronous change in the head and tail of dioctadecyldimethylammonium bromide molecules during the liquid crystalline to coagel phase transformation process. <i>Langmuir</i> , 2009 , 25, 13394-401	4	44

87	Long-Time Plasma Membrane Imaging Based on a Two-Step Synergistic Cell Surface Modification Strategy. <i>Bioconjugate Chemistry</i> , 2016 , 27, 782-9	6.3	41
86	Hydrogen bonding interactions in ethanol and acetonitrile binary system: A near and mid-infrared spectroscopic study. <i>Journal of Molecular Structure</i> , 2014 , 1069, 251-257	3.4	41
85	Hydrogen-bonding interactions between [BMIM][BF ₄] and dimethyl sulfoxide. <i>Journal of Molecular Structure</i> , 2014 , 1069, 140-146	3.4	38
84	An insight into sequential order in two-dimensional correlation spectroscopy. <i>Applied Spectroscopy</i> , 2009 , 63, 344-53	3.1	38
83	The effect of dimethyl sulphoxide on the structure and phase behaviour of palmitoleylphosphatidylethanolamine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000 , 1509, 440-50	3.8	38
82	Phase diagram of stigmaterol-dipalmitoylphosphatidylcholine mixtures dispersed in excess water. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 764-71	3.8	36
81	The Hydrogen-Bonding Interactions between 1-Ethyl-3-Methylimidazolium Lactate Ionic Liquid and Methanol. <i>Australian Journal of Chemistry</i> , 2013 , 66, 50	1.2	34
80	Regional cooperativity in the phase transitions of dipalmitoylphosphatidylcholine bilayers: the lipid tail triggers the isothermal crystallization process. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8559-68	3.4	32
79	Effect of urea, dimethylurea, and tetramethylurea on the phase behavior of dioleoylphosphatidylethanolamine. <i>Chemistry and Physics of Lipids</i> , 2002 , 114, 149-57	3.7	32
78	Hydrogen-bonding interactions between a pyridinium-based ionic liquid [C ₄ Py][SCN] and dimethyl sulfoxide. <i>Chemical Engineering Science</i> , 2015 , 121, 169-179	4.4	31
77	Characterization of a quasicrystalline phase in codispersions of phosphatidylethanolamine and glucocerebroside. <i>Biophysical Journal</i> , 2004 , 86, 2208-17	2.9	30
76	Formation and transformation of the subgel phase in dioctadecyldimethylammonium bromide aqueous dispersions. <i>Langmuir</i> , 2011 , 27, 2349-56	4	27
75	Two-State or Non-Two-State? An Excess Spectroscopy-based Approach to Differentiate the Existing Forms of Molecules in Liquids Mixtures. <i>Scientific Reports</i> , 2015 , 5, 16379	4.9	26
74	Acetonitrile induces nonsynchronous interdigitation and dehydration of dipalmitoylphosphatidylcholine bilayers. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12685-91	3.4	26
73	In Situ Visualization of Lipid Raft Domains by Fluorescent Glycol Chitosan Derivatives. <i>Langmuir</i> , 2016 , 32, 6739-45	4	25
72	Selective molecular interactions between dimethyl sulfoxide and paraldehyde studied by two-dimensional correlation FT-IR spectroscopy. <i>Vibrational Spectroscopy</i> , 2004 , 36, 203-206	2.1	25
71	The interactions between polar solvents (methanol, acetonitrile, dimethylsulfoxide) and the ionic liquid 1-ethyl-3-methylimidazolium bis(fluorosulfonyl)imide. <i>Journal of Molecular Liquids</i> , 2020 , 299, 112159	6	25
70	Hydrogen bonding interactions in three 2-mercaptoethanol systems: an excess infrared spectroscopic study. <i>Applied Spectroscopy</i> , 2009 , 63, 1356-62	3.1	24

69	Infrared spectroscopy reveals the nonsynchronicity phenomenon in the glassy to fluid micellar transition of DSPE-PEG2000 aqueous dispersions. <i>Langmuir</i> , 2010 , 26, 12777-84	4	23
68	Excess Spectroscopy: Concept and Applications. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2016 , 32, 239-248	3.8	23
67	Halogen-bond and hydrogen-bond interactions between three benzene derivatives and dimethyl sulphoxide. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6946-56	3.6	22
66	Evidences for Cooperative Resonance-Assisted Hydrogen Bonds in Protein Secondary Structure Analogs. <i>Scientific Reports</i> , 2016 , 6, 36932	4.9	22
65	Folding Behaviors of Protein (Lysozyme) Confined in Polyelectrolyte Complex Micelle. <i>Langmuir</i> , 2016 , 32, 3655-64	4	22
64	Nonsynchronicity phenomenon observed during the lamellar-micellar phase transitions of 1-stearoyllysophosphatidylcholine dispersed in water. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2158-64	4.4	21
63	Structural and kinetic properties of alpha-tocopherol in phospholipid bilayers, a molecular dynamics simulation study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 16537-46	3.4	20
62	A modified mean normalization method to reduce the effect of peak overlap in two-dimensional correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2006 , 799, 128-133	3.4	20
61	The effect of introducing an ether group into an imidazolium-based ionic liquid in binary mixtures with DMSO. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 15734-15742	3.6	19
60	Structural Properties and Hydrogen-Bonding Interactions in Binary Mixtures Containing a Deep-Eutectic Solvent and Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1229-1239	3.4	19
59	Comparative study of halogen- and hydrogen-bond interactions between benzene derivatives and dimethyl sulfoxide. <i>ChemPhysChem</i> , 2015 , 16, 2594-601	3.2	19
58	Stepwise ordering of imidazolium-based cationic surfactants during cooling-induced crystallization. <i>Langmuir</i> , 2012 , 28, 7350-9	4	19
57	Thermotropic properties of dioleoylphosphatidylethanolamine in aqueous dimethyl sulfoxide solutions. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 332, 187-95	4.1	19
56	Evidence that Acetonitrile is Sensitive to Different Interaction Sites of Ionic Liquids as Revealed by Excess Spectroscopy. <i>ChemPhysChem</i> , 2017 , 18, 1370-1375	3.2	18
55	Crystallization from the micellar phase of imidazolium-based cationic surfactants. <i>Journal of Colloid and Interface Science</i> , 2012 , 374, 197-205	9.3	18
54	Selective molecular interactions between dimethyl sulfoxide and the functional groups of 2-mercaptoethanol. <i>Journal of Molecular Structure</i> , 2008 , 883-884, 55-60	3.4	18
53	Comparative studies on the crystalline to fluid phase transitions of two equimolar cationic/anionic surfactant mixtures containing dodecylsulfonate and dodecylsulfate. <i>Langmuir</i> , 2011 , 27, 14740-7	4	17
52	Water mediates the metastable crystal-to-stable crystal phase transition process in phospholipid aqueous dispersion. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 869-72	3.4	17

51	Excess spectroscopy and its applications in the study of solution chemistry. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1611-1626	2.1	16
50	Volumetric properties of binary systems between tetralin and alkylbenzenes. <i>Fluid Phase Equilibria</i> , 1999 , 164, 209-216	2.5	16
49	Mechanism of the fast exchange between bound and free guests in cucurbit[7]uril-guest systems. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3638-41	3.6	15
48	Complexation of Lysozyme with Sodium Poly(styrenesulfonate) via the Two-State and Non-Two-State Unfoldings of Lysozyme. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14382-92	3.4	14
47	Influence of Hydration on the Structure and Interactions of Ethaline Deep-Eutectic Solvent: A Spectroscopic and Computational Study. <i>ChemPhysChem</i> , 2020 , 21, 995-1005	3.2	14
46	Hydrogen-bonding interactions between a nitrile-based functional ionic liquid and DMSO. <i>Journal of Molecular Structure</i> , 2016 , 1124, 207-215	3.4	14
45	Overlap may cause misleading results in two-dimensional correlation spectra. <i>Applied Spectroscopy</i> , 2005 , 59, 388-91	3.1	14
44	Demixing and crystallization of DODAB in DPPC-DODAB binary mixtures. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15307-18	3.6	13
43	Generalized 2D and time-resolved FTIR studies of protein unfolding events. <i>Journal of Molecular Structure</i> , 2010 , 974, 203-209	3.4	13
42	Phase behaviour of distearoylphosphatidylethanolamine in glycerol--a thermal and X-ray diffraction study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1995 , 1237, 135-42	3.8	13
41	Local Acid Strength of Solutions and Its Quantitative Evaluation Using Excess Infrared Nitrile Probes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1007-1012	6.4	11
40	Hydroxyl group as IR probe to detect the structure of ionic liquid-acetonitrile mixtures. <i>Journal of Molecular Structure</i> , 2018 , 1161, 424-432	3.4	11
39	Selective recognition induced nanostructures in a cucurbit[7]uril-based host-guest system: micelles, nanorods and nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8506-10	3.6	11
38	Phase diagram of androsterol-dipalmitoylphosphatidylcholine mixtures dispersed in excess water. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 8375-82	3.4	11
37	Excess Molar Enthalpies for Binary Mixtures of Benzyl Alcohol and Heptanone Isomers at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1258-1260	2.8	11
36	Effect of Imidazolium-Based Ionic Liquids on the Structure and Phase Behavior of Palmitoyl-oleoyl-phosphatidylethanolamine. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5474-5482	3.4	10
35	The role of sterol rings and side chain on the structure and phase behaviour of sphingomyelin bilayers. <i>Molecular Membrane Biology</i> , 2008 , 25, 485-97	3.4	10
34	Standard partial molar volumes and viscosity B-coefficients of ionic liquids [Cnmim]Br (n = 4, 6, 8) in alcohols at 298.15 K. <i>Journal of Molecular Liquids</i> , 2015 , 209, 563-568	6	9

33	Molecular-level pictures of the phase transitions of saturated and unsaturated phospholipid binary mixtures. <i>RSC Advances</i> , 2015 , 5, 726-733	3-7	9
32	Microscopic study of binary mixtures between pyrrolidinium bis(triflorosulfonyl)imide and dimethyl sulfoxide/acetonitrile. <i>Science China Chemistry</i> , 2016 , 59, 578-586	7-9	9
31	Study on the Electron Injection Mechanism of Thermally Decomposable Cs ₂ CO ₃ . <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 102302	1-4	9
30	Liquid Ordered Phase of Binary Mixtures Containing Dipalmitoylphosphatidylcholine and Sterols. <i>Acta Physico-chimica Sinica</i> , 2008 , 24, 1149-1154		9
29	Identifying Different Halogen-/Hydrogen-Bonding Interaction Modes in Binary Systems that Contain an Acetate Ionic Liquid and Various Halobenzenes. <i>ChemPhysChem</i> , 2018 , 19, 1030-1040	3-2	7
28	Comparative study of hydrogen bonding interactions between N-methylacetamide and Methyl Acetate/Ethyl Formate. <i>Journal of Molecular Structure</i> , 2018 , 1173, 321-327	3-4	7
27	A novel normalization method based on principal component analysis to reduce the effect of peak overlaps in two-dimensional correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2008 , 883-884, 66-72	3-4	7
26	Stable cubic phases in codispersions of glucocerebroside and palmitoylcholine. <i>Chemistry and Physics of Lipids</i> , 2003 , 126, 141-8	3-7	7
25	The microscopic structure of 1-Methoxyethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide (EOMIMTFSI) during dilution with polar solvents. <i>Journal of Molecular Liquids</i> , 2021 , 322, 114901	6	7
24	Phase behavior of a binary lipid system containing long- and short-chain phosphatidylcholines. <i>RSC Advances</i> , 2017 , 7, 5715-5724	3-7	6
23	Is the Fourier Transform Infrared Free-OH Band of n-Butanol Only from Free OHs? Case Studies on the Binary Systems of the Alcohol with CCl ₄ and CHCl ₃ . <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6177-6185	2-8	6
22	Controllable engineering of asymmetric phosphatidylserine-containing lipid vesicles using calcium cations. <i>Chemical Communications</i> , 2017 , 53, 12762-12765	5-8	6
21	Structural and hydrogen-bonding properties of neat t-BuNH ₂ and its binary mixtures with CCl ₄ , CHCl ₃ and DMSO. <i>Journal of Molecular Structure</i> , 2020 , 1215, 128257	3-4	6
20	Molecular interactions between pyrazine and n-propanol, chloroform, or tetrahydrofuran. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 70, 793-8	4-4	5
19	Comparative study of the hydrogen bonding properties between bis(fluorosulfonyl)imide/bis(trifluoromethyl)sulfonylimide-based ether-functionalized ionic liquids and methanol. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115333	6	5
18	Transition Mechanism from Nonlamellar to Well-Ordered Lamellar Phases: Is the Lamellar Liquid-Crystal Phase a Must?. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4484-4489	6-4	5
17	Fabrication of Asymmetric Phosphatidylserine-Containing Lipid Vesicles: A Study on the Effects of Size, Temperature, and Lipid Composition. <i>Langmuir</i> , 2020 , 36, 12684-12691	4	4
16	New Features on the Phase Transitions of Behenic Acid Monolayers as Unveiled by 2D-Compressibility Coefficient. <i>Chinese Journal of Chemistry</i> , 2008 , 26, 1596-1600	4-9	4

15	Full picture of the thermotropic phase behavior of cardiolipin bilayer in water: identification of a metastable subgel phase. <i>RSC Advances</i> , 2014 , 4, 51171-51179	3.7	3
14	Crystallization behavior of DSPE in dimethyl sulfoxide by time-resolved infrared spectroscopy and differential scanning calorimetry. <i>Journal of Macromolecular Science - Physics</i> , 2002 , 41, 137-147	1.4	3
13	The Structures of ZnCl-Ethanol Mixtures, a Spectroscopic and Quantum Chemical Calculation Study. <i>Molecules</i> , 2021 , 26,	4.8	3
12	The structural properties of a ZnCl-ethylene glycol binary system and the peculiarities at the eutectic composition. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13136-13147	3.6	3
11	A principle to correlate extreme values of excess thermodynamic functions with partial molar quantities. <i>Science in China Series B: Chemistry</i> , 2001 , 44, 315-319		2
10	X-ray diffraction studies of the mixed dispersion of dioleoyl-derivatives of phosphatidylcholine and phosphatidyl-ethanolamine in aqueous-dimethylsulphoxide. <i>Biochemical Society Transactions</i> , 1994 , 22, 376S	5.1	2
9	Dimethylsulphoxide stabilizes gel phases of phosphatidylcholines. <i>Biochemical Society Transactions</i> , 1995 , 23, 411S	5.1	2
8	The probes of acidic strength in ionic liquids. <i>Chinese Science Bulletin</i> , 2015 , 60, 2476-2481	2.9	2
7	Identification and properties of ion-pairs in the aqueous solutions of LiI and NaI by FTIR and quantum chemical calculations. <i>Journal of Molecular Liquids</i> , 2021 , 322, 114891	6	2
6	The distinct effects of two imidazolium-based ionic liquids, [Cmim][OAc] and [Cmim][OAc], on the phase behaviours of DPPC. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 17888-17893	3.6	2
5	Structural properties of paeonol encapsulated liposomes at physiological temperature: Synchrotron small-angle and wide-angle X-ray diffraction studies. <i>Biomedical Spectroscopy and Imaging</i> , 2016 , 5, S45-S54	1.3	1
4	Tracking the Micro-Heterogeneity and Hydrogen-Bonding Interactions in Hydroxyl-Functionalized Ionic Liquid Solutions: A Combined Experimental and Computational Study. <i>ChemPhysChem</i> , 2021 , 22, 1891-1899	3.2	0
3	Identifying Different Halogen-/Hydrogen-Bonding Interaction Modes in Binary Systems that Contain an Acetate Ionic Liquid and Various Halobenzenes. <i>ChemPhysChem</i> , 2018 , 19, 1002-1002	3.2	
2	Experimental and theoretical investigations on the direct interactions between urea and phospholipids in aqueous solutions. <i>Biomedical Spectroscopy and Imaging</i> , 2013 , 2, 141-153	1.3	
1	Stabilization of the non-lamellar phase of dioleoylphosphatidylethanolamine by dimethylsulphoxide. <i>Biochemical Society Transactions</i> , 1995 , 23, 412S	5.1	