Zhi-Wu Yu

List of Publications by Year in Descending Order

104 papers	2,774 citations	28 h-index	48 g-index
108 ext. papers	3,170 ext. citations	4 avg, IF	5.33 L-index

#	Paper	IF	Citations
104	The Structures of ZnCl-Ethanol Mixtures, a Spectroscopic and Quantum Chemical Calculation Study. *Molecules*, **2021**, 26,	4.8	3
103	Comparative study of the hydrogen bonding properties between bis(fluorosulfonyl)imide/bis(trifluoromethyl)sulfonylimide-based ether-functionalized ionic liquids and methanol. *Journal of Molecular Liquids*, **2021**, 328, 115333	6	5
102	Transition Mechanism from Nonlamellar to Well-Ordered Lamellar Phases: Is the Lamellar Liquid-Crystal Phase a Must?. *Journal of Physical Chemistry Letters*, **2021**, 12, 4484-4489	6.4	5
101	Identification and properties of ion-pairs in the aqueous solutions of LiI and NaI by FTIR and quantum chemical calculations. *Journal of Molecular Liquids*, **2021**, 322, 114891	6	2
100	The microscopic structure of 1-Methoxyethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide (EOMIMTFSI) during dilution with polar solvents. *Journal of Molecular Liquids*, **2021**, 322, 114901	6	7
99	Tracking the Micro-Heterogeneity and Hydrogen-Bonding Interactions in Hydroxyl-Functionalized Ionic Liquid Solutions: A Combined Experimental and Computational Study. *ChemPhysChem*, **2021**, 22, 1891-1899	3.2	0
98	The structural properties of a ZnCl-ethylene glycol binary system and the peculiarities at the eutectic composition. *Physical Chemistry Chemical Physics*, **2021**, 23, 13136-13147	3.6	3
97	The distinct effects of two imidazolium-based ionic liquids, [Cmim][OAc] and [Cmim][OAc], on the phase behaviours of DPPC. *Physical Chemistry Chemical Physics*, **2021**, 23, 17888-17893	3.6	2
96	Fabrication of Asymmetric Phosphatidylserine-Containing Lipid Vesicles: A Study on the Effects of Size, Temperature, and Lipid Composition. *Langmuir*, **2020**, 36, 12684-12691	4	4
95	The effect of introducing an ether group into an imidazolium-based ionic liquid in binary mixtures with DMSO. *Physical Chemistry Chemical Physics*, **2020**, 22, 15734-15742	3.6	19
94	Excess spectroscopy and its applications in the study of solution chemistry. *Pure and Applied Chemistry*, **2020**, 92, 1611-1626	2.1	16
93	Is the Fourier Transform Infrared Free-OH Band of -Butanol Only from Free OHs? Case Studies on the Binary Systems of the Alcohol with CCl and CHCl. *Journal of Physical Chemistry A*, **2020**, 124, 6177-6185	2.8	6
92	Enzyme-Mediated Tumor Starvation and Phototherapy Enhance Mild-Temperature Photothermal Therapy. *Advanced Functional Materials*, **2020**, 30, 1909391	15.6	108
91	Local Acid Strength of Solutions and Its Quantitative Evaluation Using Excess Infrared Nitrile Probes. *Journal of Physical Chemistry Letters*, **2020**, 11, 1007-1012	6.4	11
90	Structural Properties and Hydrogen-Bonding Interactions in Binary Mixtures Containing a Deep-Eutectic Solvent and Acetonitrile. *Journal of Physical Chemistry B*, **2020**, 124, 1229-1239	3.4	19
89	Influence of Hydration on the Structure and Interactions of Ethaline Deep-Eutectic Solvent: A Spectroscopic and Computational Study. *ChemPhysChem*, **2020**, 21, 995-1005	3.2	14
88	The interactions between polar solvents (methanol, acetonitrile, dimethylsulfoxide) and the ionic liquid 1-ethyl-3-methylimidazolium bis(fluorosulfonyl)imide. *Journal of Molecular Liquids*, **2020**, 299, 112159	6	25

87	Structural and hydrogen-bonding properties of neat t-BuNH2 and its binary mixtures with CCl4, CHCl3 and DMSO. *Journal of Molecular Structure*, **2020**, 1215, 128257	3.4	6
86	Effect of Imidazolium-Based Ionic Liquids on the Structure and Phase Behavior of Palmitoyl-oleoyl-phosphatidylethanolamine. *Journal of Physical Chemistry B*, **2019**, 123, 5474-5482	3.4	10
85	Insights into the Hydrogen Bond Interactions in Deep Eutectic Solvents Composed of Choline Chloride and Polyols. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7760-7767	8.3	62
84	Identifying Different Halogen-/Hydrogen-Bonding Interaction Modes in Binary Systems that Contain an Acetate Ionic Liquid and Various Halobenzenes. *ChemPhysChem*, **2018**, 19, 1030-1040	3.2	7
83	Hydroxyl group as IR probe to detect the structure of ionic liquid-acetonitrile mixtures. *Journal of Molecular Structure*, **2018**, 1161, 424-432	3.4	11
82	Comparative study of hydrogen bonding interactions between N-methylacetamide and Methyl Acetate/Ethyl Formate. *Journal of Molecular Structure*, **2018**, 1173, 321-327	3.4	7
81	Identifying Different Halogen-/Hydrogen-Bonding Interaction Modes in Binary Systems that Contain an Acetate Ionic Liquid and Various Halobenzenes. *ChemPhysChem*, **2018**, 19, 1002-1002	3.2	
80	Evidence that Acetonitrile is Sensitive to Different Interaction Sites of Ionic Liquids as Revealed by Excess Spectroscopy. *ChemPhysChem*, **2017**, 18, 1370-1375	3.2	18
79	Plasma membrane activatable polymeric nanotheranostics with self-enhanced light-triggered photosensitizer cellular influx for photodynamic cancer therapy. *Journal of Controlled Release*, **2017**, 255, 231-241	11.7	63
78	Phase behavior of a binary lipid system containing long- and short-chain phosphatidylcholines. *RSC Advances*, **2017**, 7, 5715-5724	3.7	6
77	Controllable engineering of asymmetric phosphatidylserine-containing lipid vesicles using calcium cations. *Chemical Communications*, **2017**, 53, 12762-12765	5.8	6
76	Microscopic study of binary mixtures between pyrrolidinium bis(triflorosulfonyl)imide and dimethyl sulfoxide/acetonitrile. *Science China Chemistry*, **2016**, 59, 578-586	7.9	9
75	In Situ Visualization of Lipid Raft Domains by Fluorescent Glycol Chitosan Derivatives. *Langmuir*, **2016**, 32, 6739-45	4	25
74	Hydrogen-bonding interactions between a nitrile-based functional ionic liquid and DMSO. *Journal of Molecular Structure*, **2016**, 1124, 207-215	3.4	14
73	Long-Time Plasma Membrane Imaging Based on a Two-Step Synergistic Cell Surface Modification Strategy. *Bioconjugate Chemistry*, **2016**, 27, 782-9	6.3	41
72	Structural properties of paeonol encapsulated liposomes at physiological temperature: Synchrotron small-angle and wide-angle X-ray diffraction studies. *Biomedical Spectroscopy and Imaging*, **2016**, 5, S45-S54	1.3	1
71	Excess Spectroscopy: Concept and Applications. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2016**, 32, 239-248	3.8	23
70	Evidences for Cooperative Resonance-Assisted Hydrogen Bonds in Protein Secondary Structure Analogs. *Scientific Reports*, **2016**, 6, 36932	4.9	22

69	Folding Behaviors of Protein (Lysozyme) Confined in Polyelectrolyte Complex Micelle. *Langmuir*, **2016**, 32, 3655-64	4	22
68	Standard partial molar volumes and viscosity B-coefficients of ionic liquids [Cnmim]Br (n = 4, 6, 8) in alcohols at 298.15 K. *Journal of Molecular Liquids*, **2015**, 209, 563-568	6	9
67	Complexation of Lysozyme with Sodium Poly(styrenesulfonate) via the Two-State and Non-Two-State Unfoldings of Lysozyme. *Journal of Physical Chemistry B*, **2015**, 119, 14382-92	3.4	14
66	Hydrogen-bonding interactions between a pyridinium-based ionic liquid [C4Py][SCN] and dimethyl sulfoxide. *Chemical Engineering Science*, **2015**, 121, 169-179	4.4	31
65	Molecular-level pictures of the phase transitions of saturated and unsaturated phospholipid binary mixtures. *RSC Advances*, **2015**, 5, 726-733	3.7	9
64	Two-State or Non-Two-State? An Excess Spectroscopy-based Approach to Differentiate the Existing Forms of Molecules in Liquids Mixtures. *Scientific Reports*, **2015**, 5, 16379	4.9	26
63	Comparative study of halogen- and hydrogen-bond interactions between benzene derivatives and dimethyl sulfoxide. *ChemPhysChem*, **2015**, 16, 2594-601	3.2	19
62	The probes of acidic strength in ionic liquids. *Chinese Science Bulletin*, **2015**, 60, 2476-2481	2.9	2
61	Hydrogen-bonding interactions between [BMIM][BF4] and dimethyl sulfoxide. *Journal of Molecular Structure*, **2014**, 1069, 140-146	3.4	38
60	Full picture of the thermotropic phase behavior of cardiolipin bilayer in water: identification of a metastable subgel phase. *RSC Advances*, **2014**, 4, 51171-51179	3.7	3
59	Demixing and crystallization of DODAB in DPPC-DODAB binary mixtures. *Physical Chemistry Chemical Physics*, **2014**, 16, 15307-18	3.6	13
58	Halogen-bond and hydrogen-bond interactions between three benzene derivatives and dimethyl sulphoxide. *Physical Chemistry Chemical Physics*, **2014**, 16, 6946-56	3.6	22
57	Hydrogen bonding interactions in ethanol and acetonitrile binary system: A near and mid-infrared spectroscopic study. *Journal of Molecular Structure*, **2014**, 1069, 251-257	3.4	41
56	Hydrogen-bonding interactions between [BMIM][BF4] and acetonitrile. *Physical Chemistry Chemical Physics*, **2013**, 15, 18055-64	3.6	121
55	The Hydrogen-Bonding Interactions between 1-Ethyl-3-Methylimidazolium Lactate Ionic Liquid and Methanol. *Australian Journal of Chemistry*, **2013**, 66, 50	1.2	34
54	Experimental and theoretical investigations on the direct interactions between urea and phospholipids in aqueous solutions. *Biomedical Spectroscopy and Imaging*, **2013**, 2, 141-153	1.3	
53	Crystallization from the micellar phase of imidazolium-based cationic surfactants. *Journal of Colloid and Interface Science*, **2012**, 374, 197-205	9.3	18
52	Stepwise ordering of imidazolium-based cationic surfactants during cooling-induced crystallization. *Langmuir*, **2012**, 28, 7350-9	4	19

51	Selective recognition induced nanostructures in a cucurbit[7]uril-based host-guest system: micelles, nanorods and nanosheets. *Physical Chemistry Chemical Physics*, **2012**, 14, 8506-10	3.6	11
50	Comparative studies on the crystalline to fluid phase transitions of two equimolar cationic/anionic surfactant mixtures containing dodecylsulfonate and dodecylsulfate. *Langmuir*, **2011**, 27, 14740-7	4	17
49	Regional cooperativity in the phase transitions of dipalmitoylphosphatidylcholine bilayers: the lipid tail triggers the isothermal crystallization process. *Journal of Physical Chemistry B*, **2011**, 115, 8559-68	3.4	32
48	Mechanism of the fast exchange between bound and free guests in cucurbit[7]uril-guest systems. *Physical Chemistry Chemical Physics*, **2011**, 13, 3638-41	3.6	15
47	Hydrogen bonding behaviors of binary systems containing the ionic liquid 1-butyl-3-methylimidazolium trifluoroacetate and water/methanol. *Journal of Physical Chemistry B*, **2011**, 115, 11127-36	3.4	103
46	Formation and transformation of the subgel phase in dioctadecyldimethylammonium bromide aqueous dispersions. *Langmuir*, **2011**, 27, 2349-56	4	27
45	Nonsynchronicity phenomenon observed during the lamellar-micellar phase transitions of 1-stearoyllysophosphatidylcholine dispersed in water. *Journal of Physical Chemistry B*, **2010**, 114, 2158-64	3.4	21
44	Infrared spectroscopy reveals the nonsynchronicity phenomenon in the glassy to fluid micellar transition of DSPE-PEG2000 aqueous dispersions. *Langmuir*, **2010**, 26, 12777-84	4	23
43	Acetonitrile induces nonsynchronous interdigitation and dehydration of dipalmitoylphosphatidylcholine bilayers. *Journal of Physical Chemistry B*, **2010**, 114, 12685-91	3.4	26
42	Hydrogen bonding interactions between a representative pyridinium-based ionic liquid [BuPy][BF4] and water/dimethyl sulfoxide. *Journal of Physical Chemistry B*, **2010**, 114, 8689-700	3.4	97
41	The hydrogen bonding interactions between the ionic liquid 1-ethyl-3-methylimidazolium ethyl sulfate and water. *Journal of Physical Chemistry B*, **2010**, 114, 4747-54	3.4	193
40	Generalized 2D and time-resolved FTIR studies of protein unfolding events. *Journal of Molecular Structure*, **2010**, 974, 203-209	3.4	13
39	Study on the Electron Injection Mechanism of Thermally Decomposable Cs2CO3. *Japanese Journal of Applied Physics*, **2009**, 48, 102302	1.4	9
38	Structural and kinetic properties of alpha-tocopherol in phospholipid bilayers, a molecular dynamics simulation study. *Journal of Physical Chemistry B*, **2009**, 113, 16537-46	3.4	20
37	Nonsynchronous change in the head and tail of dioctadecyldimethylammonium bromide molecules during the liquid crystalline to coagel phase transformation process. *Langmuir*, **2009**, 25, 13394-401	4	44
36	An insight into sequential order in two-dimensional correlation spectroscopy. *Applied Spectroscopy*, **2009**, 63, 344-53	3.1	38
35	Hydrogen bonding interactions in three 2-mercaptoethanol systems: an excess infrared spectroscopic study. *Applied Spectroscopy*, **2009**, 63, 1356-62	3.1	24
34	Water mediates the metastable crystal-to-stable crystal phase transition process in phospholipid aqueous dispersion. *Journal of Physical Chemistry B*, **2009**, 113, 869-72	3.4	17

33	Phase diagram of androsterol-dipalmitoylphosphatidylcholine mixtures dispersed in excess water. *Journal of Physical Chemistry B*, **2008**, 112, 8375-82	3.4	11
32	The role of sterol rings and side chain on the structure and phase behaviour of sphingomyelin bilayers. *Molecular Membrane Biology*, **2008**, 25, 485-97	3.4	10
31	Excess infrared absorption spectroscopy and its applications in the studies of hydrogen bonds in alcohol-containing binary mixtures. *Applied Spectroscopy*, **2008**, 62, 166-70	3.1	85
30	Liquid Ordered Phase of Binary Mixtures Containing Dipalmitoylphosphatidylcholine and Sterols. *Acta Physico-chimica Sinica*, **2008**, 24, 1149-1154		9
29	New Features on the Phase Transitions of Behenic Acid Monolayers as Unveiled by 2D-Compressibility Coefficient. *Chinese Journal of Chemistry*, **2008**, 26, 1596-1600	4.9	4
28	Molecular interactions between pyrazine and n-propanol, chloroform, or tetrahydrofuran. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 70, 793-8	4.4	5
27	Selective molecular interactions between dimethyl sulfoxide and the functional groups of 2-mercaptoethanol. *Journal of Molecular Structure*, **2008**, 883-884, 55-60	3.4	18
26	A novel normalization method based on principal component analysis to reduce the effect of peak overlaps in two-dimensional correlation spectroscopy. *Journal of Molecular Structure*, **2008**, 883-884, 66-72	3.4	7
25	Validity and Reliability of Benesi-Hildebrand Method. *Acta Physico-chimica Sinica*, **2007**, 23, 1353-1359		63
24	Condensation effect of cholesterol, stigmasterol, and sitosterol on dipalmitoylphosphatidylcholine in molecular monolayers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 293, 123-129	5.1	52
23	The partition of cholesterol between ordered and fluid bilayers of phosphatidylcholine: a synchrotron X-ray diffraction study. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 2873-81	3.8	50
22	Phase diagram of stigmasterol-dipalmitoylphosphatidylcholine mixtures dispersed in excess water. *Biochimica Et Biophysica Acta - Biomembranes*, **2006**, 1758, 764-71	3.8	36
21	The role of methyl groups in the formation of hydrogen bond in DMSO-methanol mixtures. *Journal of the American Chemical Society*, **2006**, 128, 1438-9	16.4	151
20	A modified mean normalization method to reduce the effect of peak overlap in two-dimensional correlation spectroscopy. *Journal of Molecular Structure*, **2006**, 799, 128-133	3.4	20
19	Overlap may cause misleading results in two-dimensional correlation spectra. *Applied Spectroscopy*, **2005**, 59, 388-91	3.1	14
18	Selective molecular interactions between dimethyl sulfoxide and paraldehyde studied by two-dimensional correlation FT-IR spectroscopy. *Vibrational Spectroscopy*, **2004**, 36, 203-206	2.1	25
17	Characterization of a quasicrystalline phase in codispersions of phosphatidylethanolamine and glucocerebroside. *Biophysical Journal*, **2004**, 86, 2208-17	2.9	30
16	Stable cubic phases in codispersions of glucocerebroside and palmitoyloleoylphosphatidylethanolamine. *Chemistry and Physics of Lipids*, **2003**, 126, 141-8	3.7	7

15	Effect of urea, dimethylurea, and tetramethylurea on the phase behavior of dioleoylphosphatidylethanolamine. *Chemistry and Physics of Lipids*, **2002**, 114, 149-57	3.7	32
14	Crystallization behavior of DSPE in dimethyl sulfoxide by time-resolved infrared spectroscopy and differential scanning calorimetry. *Journal of Macromolecular Science - Physics*, **2002**, 41, 137-147	1.4	3
13	Determination of Selective Molecular Interactions Using Two-Dimensional Correlation FT-IR Spectroscopy. *Journal of Physical Chemistry A*, **2002**, 106, 6683-6687	2.8	62
12	Characterization of the Liquid-Expanded to Liquid-Condensed Phase Transition of Monolayers by Means of Compressibility. *Langmuir*, **2002**, 18, 4530-4531	4	79
11	A principle to correlate extreme values of excess thermodynamic functions with partial molar quantities. *Science in China Series B: Chemistry*, **2001**, 44, 315-319		2
10	Excess Molar Enthalpies for Binary Mixtures of Benzyl Alcohol and Heptanone Isomers at Different Temperatures. *Journal of Chemical & Engineering Data*, **2001**, 46, 1258-1260	2.8	11
9	The effect of dimethyl sulphoxide on the structure and phase behaviour of palmitoleoylphosphatidylethanolamine. *Biochimica Et Biophysica Acta - Biomembranes*, **2000**, 1509, 440-50	3.8	38
8	Volumetric properties of binary systems between tetralin and alkylbenzenes. *Fluid Phase Equilibria*, **1999**, 164, 209-216	2.5	16
7	The modulation of membrane structure and stability by dimethyl sulphoxide (review). *Molecular Membrane Biology*, **1998**, 15, 59-68	3.4	101
6	Solvation effects of dimethyl sulphoxide on the structure of phospholipid bilayers. *Biophysical Chemistry*, **1998**, 70, 35-9	3.5	46
5	Thermotropic properties of dioleoylphosphatidylethanolamine in aqueous dimethyl sulfoxide solutions. *Archives of Biochemistry and Biophysics*, **1996**, 332, 187-95	4.1	19
4	Phase behaviour of distearoylphosphatidylethanolamine in glycerol--a thermal and X-ray diffraction study. *Biochimica Et Biophysica Acta - Biomembranes*, **1995**, 1237, 135-42	3.8	13
3	Dimethylsulphoxide stabilizes gel phases of phosphatidylcholines. *Biochemical Society Transactions*, **1995**, 23, 411S	5.1	2
2	Stabilization of the non-lamellar phase of dioleoylphosphatidylethanolamine by dimethylsulphoxide. *Biochemical Society Transactions*, **1995**, 23, 412S	5.1	
1	X-ray diffraction studies of the mixed dispersion of dioleoyl-derivatives of phosphatidylcholine and phosphatidyl-ethanolamine in aqueous-dimethylsulphoxide. *Biochemical Society Transactions*, **1994**, 22, 376S	5.1	2