

Chi-Yuan Cheng

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.

31
papers

938
citations

18
h-index

30
g-index

32
ext. papers

1,034
ext. citations

6.9
avg, IF

3.99
L-index

#	Paper	IF	Citations
31	Understanding Methyl Salicylate Hydrolysis in the Presence of Amino Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 6013-6021	5.7	1
30	Modeling of the Effects of Metal Complexation on the Morphology and Rheology of Xanthan Gum Polysaccharide Solutions. <i>Macromolecules</i> , 2021 , 54, 8675-8692	5.5	1
29	High-precision measurement of pH in the full toothpaste using NMR chemical shift. <i>Journal of Magnetic Resonance</i> , 2020 , 317, 106771	3	1
28	Tau-Cofactor Complexes as Building Blocks of Tau Fibrils. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1339	5.1	17
27	Surface water retardation around single-chain polymeric nanoparticles: critical for catalytic function?. <i>Chemical Science</i> , 2016 , 7, 2011-2015	9.4	30
26	Protein structural and surface water rearrangement constitute major events in the earliest aggregation stages of tau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E127-36	11.5	48
25	Communication: Contrasting effects of glycerol and DMSO on lipid membrane surface hydration dynamics and forces. <i>Journal of Chemical Physics</i> , 2016 , 145, 041101	3.9	34
24	Stability of Protein-Specific Hydration Shell on Crowding. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5392-402	16.4	29
23	DMSO induces dehydration near lipid membrane surfaces. <i>Biophysical Journal</i> , 2015 , 109, 330-9	2.9	57
22	Correlating steric hydration forces with water dynamics through surface force and diffusion NMR measurements in a lipid-DMSO-H ₂ O system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10708-13	11.5	24
21	Mapping Out Protein Hydration Dynamics by Overhauser Dynamic Nuclear Polarization. <i>Biological Magnetic Resonance</i> , 2015 , 43-74	0.5	1
20	Cholesterol enhances surface water diffusion of phospholipid bilayers. <i>Journal of Chemical Physics</i> , 2014 , 141, 22D513	3.9	16
19	Dynamic nuclear polarization methods in solids and solutions to explore membrane proteins and membrane systems. <i>Annual Review of Physical Chemistry</i> , 2013 , 64, 507-32	15.7	38
18	Hydration dynamics as an intrinsic ruler for refining protein structure at lipid membrane interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16838-43	11.5	60
17	An ultrasensitive tool exploiting hydration dynamics to decipher weak lipid membrane-polymer interactions. <i>Journal of Magnetic Resonance</i> , 2012 , 215, 115-9	3	28
16	Quantitative analysis of molecular transport across liposomal bilayer by J-mediated ¹³ C Overhauser dynamic nuclear polarization. <i>Analytical Chemistry</i> , 2012 , 84, 8936-40	7.8	11
15	Nature of interactions between PEO-PPO-PEO triblock copolymers and lipid membranes: (II) role of hydration dynamics revealed by dynamic nuclear polarization. <i>Biomacromolecules</i> , 2012 , 13, 2624-33	6.9	75

14	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1480, 1		
13	Probing the hydration water diffusion of macromolecular surfaces and interfaces. <i>New Journal of Physics</i> , 2011 , 13, 015006	2.9	46
12	Molecular wheels as nanoporous materials: differing modes of gas diffusion through Ga10 and Ga18 wheels probed by hyperpolarized ¹²⁹ Xe NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5387-93	16.4	36
11	Local and Collective Motions in Precise Polyolefins with Alkyl Branches: A Combination of ² H and ¹³ C Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2009 , 121, 4687-4690	3.6	4
10	Local and collective motions in precise polyolefins with alkyl branches: a combination of ² H and ¹³ C solid-state NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4617-20	16.4	45
9	Dramatic enhancement of hyperpolarized xenon-129 2D-NMR exchange cross-peak signals in nanotubes by interruption of the gas flow. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2390-1	16.4	8
8	Direct observation of atoms entering and exiting L-alanyl-L-valine nanotubes by hyperpolarized xenon-129 NMR. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13997-4002	16.4	38
7	Observation of single-file diffusion in dipeptide nanotubes by continuous-flow hyperpolarized xenon-129 NMR spectroscopy. <i>ChemPhysChem</i> , 2007 , 8, 2077-81	3.2	32
6	Comparison of Structural and Chemical Properties of Black and Red Human Hair Melanosomes. <i>Photochemistry and Photobiology</i> , 2007 , 81, 135-144	3.6	16
5	Comparison of structural and chemical properties of black and red human hair melanosomes. <i>Photochemistry and Photobiology</i> , 2005 , 81, 135-44	3.6	133
4	Comparisons of the structural and chemical properties of melanosomes isolated from retinal pigment epithelium, iris and choroid of newborn and mature bovine eyes. <i>Photochemistry and Photobiology</i> , 2005 , 81, 510-6	3.6	73
3	Dynamics and Orientation Ordering of Water in Lyotropic Liquid Crystals Using ² H Double Quantum Filtered NMR Spectral Analysis. <i>Journal of the Chinese Chemical Society</i> , 2001 , 48, 953-962	1.5	3
2	Water Dynamics on the Surface of MCM-41 via ² H Double Quantum Filtered NMR and Relaxation Measurements. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5713-5721	3.4	33
1	Self-assembly of biopolymer films for UV protection of wood. <i>Journal of Materials Research</i> , 2001 , 15, 1000-1006	2.5	0