

# Chi-Yuan Cheng

## List of Publications by Citations

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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	Comparison of structural and chemical properties of black and red human hair melanosomes. <i>Photochemistry and Photobiology</i> , <b>2005</b> , 81, 135-44	3.6	133
30	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> , <b>2012</b> , 13, 2624-33	6.9	75
29	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> , <b>2005</b> , 81, 510-6	3.6	73
28	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> , <b>2013</b> , 110, 16838-43	11.5	60
27	DMSO induces dehydration near lipid membrane surfaces. <i>Biophysical Journal</i> , <b>2015</b> , 109, 330-9	2.9	57
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> , <b>2016</b> , 113, E127-36	11.5	48
25	Probing the hydration water diffusion of macromolecular surfaces and interfaces. <i>New Journal of Physics</i> , <b>2011</b> , 13, 015006	2.9	46
24	Local and collective motions in precise polyolefins with alkyl branches: a combination of 2H and 13C solid-state NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4617-20	16.4	45
23	Dynamic nuclear polarization methods in solids and solutions to explore membrane proteins and membrane systems. <i>Annual Review of Physical Chemistry</i> , <b>2013</b> , 64, 507-32	15.7	38
22	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> , <b>2007</b> , 129, 13997-4002	16.4	38
21	Molecular wheels as nanoporous materials: differing modes of gas diffusion through Ga10 and Ga18 wheels probed by hyperpolarized 129Xe NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5387-93	16.4	36
20	Communication: Contrasting effects of glycerol and DMSO on lipid membrane surface hydration dynamics and forces. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 041101	3.9	34
19	Water Dynamics on the Surface of MCM-41 via 2H Double Quantum Filtered NMR and Relaxation Measurements. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 5713-5721	3.4	33
18	Observation of single-file diffusion in dipeptide nanotubes by continuous-flow hyperpolarized xenon-129 NMR spectroscopy. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2077-81	3.2	32
17	Surface water retardation around single-chain polymeric nanoparticles: critical for catalytic function?. <i>Chemical Science</i> , <b>2016</b> , 7, 2011-2015	9.4	30
16	Stability of Protein-Specific Hydration Shell on Crowding. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5392-402	16.4	29
15	An ultrasensitive tool exploiting hydration dynamics to decipher weak lipid membrane-polymer interactions. <i>Journal of Magnetic Resonance</i> , <b>2012</b> , 215, 115-9	3	28

14	Correlating steric hydration forces with water dynamics through surface force and diffusion NMR measurements in a lipid-DMSO-H <sub>2</sub> O system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 10708-13	11.5	24
13	Tau-Cofactor Complexes as Building Blocks of Tau Fibrils. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1339	5.1	17
12	Cholesterol enhances surface water diffusion of phospholipid bilayers. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 22D513	3.9	16
11	Comparison of Structural and Chemical Properties of Black and Red Human Hair Melanosomes. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 81, 135-144	3.6	16
10	Quantitative analysis of molecular transport across liposomal bilayer by J-mediated <sup>13</sup> C Overhauser dynamic nuclear polarization. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8936-40	7.8	11
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> , <b>2008</b> , 130, 2390-1	16.4	8
8	Local and Collective Motions in Precise Polyolefins with Alkyl Branches: A Combination of <sup>2</sup> H and <sup>13</sup> C Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 4687-4690	3.6	4
7	Dynamics and Orientation Ordering of Water in Lyotropic Liquid Crystals Using <sup>2</sup> H Double Quantum Filtered NMR Spectral Analysis. <i>Journal of the Chinese Chemical Society</i> , <b>2001</b> , 48, 953-962	1.5	3
6	High-precision measurement of pH in the full toothpaste using NMR chemical shift. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 317, 106771	3	1
5	Mapping Out Protein Hydration Dynamics by Overhauser Dynamic Nuclear Polarization. <i>Biological Magnetic Resonance</i> , <b>2015</b> , 43-74	0.5	1
4	Understanding Methyl Salicylate Hydrolysis in the Presence of Amino Acids. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 6013-6021	5.7	1
3	Modeling of the Effects of Metal Complexation on the Morphology and Rheology of Xanthan Gum Polysaccharide Solutions. <i>Macromolecules</i> , <b>2021</b> , 54, 8675-8692	5.5	1
2	Self-assembly of biopolymer films for UV protection of wood. <i>Journal of Materials Research</i> , <b>2011</b> , 22, 2500-2506	2.5	0
1	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1480, 1		