Chi-Yuan Cheng

List of Publications by Year
in descending order

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31 papers	1,130 citations	361296 20 h-index	434063 31 g-index
32 all docs	32 docs citations	32 times ranked	1659 citing authors

#	Article	IF	Citations
1	Comparison of Structural and Chemical Properties of Black and Red Human Hair MelanosomesÂ¶. Photochemistry and Photobiology, 2005, 81, 135.	1.3	160
2	Nature of Interactions between PEO-PPO-PEO Triblock Copolymers and Lipid Membranes: (II) Role of Hydration Dynamics Revealed by Dynamic Nuclear Polarization. Biomacromolecules, 2012, 13, 2624-2633.	2.6	85
3	Comparisons of the Structural and Chemical Properties of Melanosomes Isolated from Retinal Pigment Epithelium, Iris and Choroid of Newborn and Mature Bovine EyesÂ¶. Photochemistry and Photobiology, 2005, 81, 510.	1.3	79
4	DMSO Induces Dehydration near Lipid Membrane Surfaces. Biophysical Journal, 2015, 109, 330-339.	0.2	78
5	Hydration dynamics as an intrinsic ruler for refining protein structure at lipid membrane interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16838-16843.	3.3	71
6	Protein structural and surface water rearrangement constitute major events in the earliest aggregation stages of tau. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E127-36.	3.3	69
7	Probing the hydration water diffusion of macromolecular surfaces and interfaces. New Journal of Physics, 2011, 13, 015006.	1.2	50
8	Local and Collective Motions in Precise Polyolefins with Alkyl Branches: A Combination of ²H and ¹³C Solidâ€State NMR Spectroscopy. Angewandte Chemie - International Edition, 2009, 48, 4617-4620.	7.2	46
9	Dynamic Nuclear Polarization Methods in Solids and Solutions to Explore Membrane Proteins and Membrane Systems. Annual Review of Physical Chemistry, 2013, 64, 507-532.	4.8	41
10	Communication: Contrasting effects of glycerol and DMSO on lipid membrane surface hydration dynamics and forces. Journal of Chemical Physics, 2016, 145, 041101.	1.2	40
11	Direct Observation of Atoms Entering and Exitingl-Alanyl-l-valine Nanotubes by Hyperpolarized Xenon-129 NMR. Journal of the American Chemical Society, 2007, 129, 13997-14002.	6.6	38
12	Molecular Wheels as Nanoporous Materials: Differing Modes of Gas Diffusion through Ga₁₀ and Ga₁₈ Wheels Probed by Hyperpolarized ¹²⁹Xe NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 5387-5393.	6.6	38
13	Surface water retardation around single-chain polymeric nanoparticles: critical for catalytic function?. Chemical Science, 2016, 7, 2011-2015.	3.7	38
14	Observation of Singleâ€File Diffusion in Dipeptide Nanotubes by Continuousâ€Flow Hyperpolarized Xenonâ€129 NMR Spectroscopy. ChemPhysChem, 2007, 8, 2077-2081.	1.0	35
15	Tau-Cofactor Complexes as Building Blocks of Tau Fibrils. Frontiers in Neuroscience, 2019, 13, 1339.	1.4	35
16	Water Dynamics on the Surface of MCM-41 via2H Double Quantum Filtered NMR and Relaxation Measurements. Journal of Physical Chemistry B, 2001, 105, 5713-5721.	1.2	33
17	Stability of Protein-Specific Hydration Shell on Crowding. Journal of the American Chemical Society, 2016, 138, 5392-5402.	6.6	33
18	An ultrasensitive tool exploiting hydration dynamics to decipher weak lipid membraneâ€“polymer interactions. Journal of Magnetic Resonance, 2012, 215, 115-119.	1.2	32

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19	Correlating steric hydration forces with water dynamics through surface force and diffusion NMR measurements in a lipidâ€“DMSOâ€“H ₂ O system. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10708-10713.	3.3	32
20	Cholesterol enhances surface water diffusion of phospholipid bilayers. Journal of Chemical Physics, 2014, 141, 22D513.	1.2	26
21	Comparison of Structural and Chemical Properties of Black and Red Human Hair Melanosomes^{Â¶}. Photochemistry and Photobiology, 2005, 81, 135-144.	1.3	20
22	Quantitative Analysis of Molecular Transport across Liposomal Bilayer by J-Mediated ¹³C Overhauser Dynamic Nuclear Polarization. Analytical Chemistry, 2012, 84, 8936-8940.	3.2	14
23	Dramatic Enhancement of Hyperpolarized Xenon-129 2D-NMR Exchange Cross-Peak Signals in Nanotubes by Interruption of the Gas Flow. Journal of the American Chemical Society, 2008, 130, 2390-2391.	6.6	8
24	High-precision measurement of pH in the full toothpaste using NMR chemical shift. Journal of Magnetic Resonance, 2020, 317, 106771.	1.2	6
25	Modeling of the Effects of Metal Complexation on the Morphology and Rheology of Xanthan Gum Polysaccharide Solutions. Macromolecules, 2021, 54, 8675-8692.	2.2	6
26	Carbon Dioxide Capture by Amino Acids through an Arginineâ€“Arginine Carbamate Ion Pair. Industrial & Engineering Chemistry Research, 2021, 60, 17745-17749.	1.8	5
27	Dynamics and Orientation Ordering of Water in Lyotropic Liquid Crystals Using ²H Double Quantum Filtered NMR Spectral Analysis. Journal of the Chinese Chemical Society, 2001, 48, 953-962.	0.8	3
28	Understanding Methyl Salicylate Hydrolysis in the Presence of Amino Acids. Journal of Agricultural and Food Chemistry, 2021, 69, 6013-6021.	2.4	2
29	Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity. Materials Research Society Symposia Proceedings, 2012, 1480, 1.	0.1	1
30	Mapping Out Protein Hydration Dynamics by Overhauser Dynamic Nuclear Polarization. Biological Magnetic Resonance, 2015, , 43-74.	0.4	1
31	Self-assembly of biopolymer films for UV protection of wood. Journal of Materials Research, 2022, 37, 55-66.	1.2	1