

Kwan H Cheng

List of Publications by Year in descending order

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70
papers

2,236
citations

218381

26
h-index

223531

46
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71
all docs

71
docs citations

71
times ranked

2160
citing authors

#	ARTICLE	IF	CITATIONS
1	Phospholipid composition of the mammalian red cell membrane can be rationalized by a superlattice model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 4964-4969.	3.3	188
2	Lateral organisation of membrane lipids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 1999, 1440, 32-48.	1.2	146
3	Assess the nature of cholesterol-lipid interactions through the chemical potential of cholesterol in phosphatidylcholine bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5372-5377.	3.3	140
4	Thermal denaturation of the calcium ATPase of sarcoplasmic reticulum reveals two thermodynamically independent domains. <i>Biochemistry</i> , 1990, 29, 681-689.	1.2	108
5	Lateral Distribution of Cholesterol in Dioleoylphosphatidylcholine Lipid Bilayers: Cholesterol-Phospholipid Interactions at High Cholesterol Limit. <i>Biophysical Journal</i> , 2004, 86, 1532-1544.	0.2	102
6	Thermotropic lipid and protein transitions in Chinese hamster lung cell membranes: relationship to hyperthermic cell killing. <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1983, 61, 421-427.	1.3	95
7	Photoluminescent CdS/Dendrimer Nanocomposites for Fingerprint Detection. <i>Journal of Forensic Sciences</i> , 2000, 45, 770-773.	0.9	92
8	Exploration of the use of novel SiO ₂ nanocomposites doped with fluorescent Eu ³⁺ /sensitizer complex for latent fingerprint detection. <i>Forensic Science International</i> , 2008, 176, 163-172.	1.3	78
9	Ceramide Drives Cholesterol Out of the Ordered Lipid Bilayer Phase into the Crystal Phase in 1-Palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine/Cholesterol/Ceramide Ternary Mixtures. <i>Biochemistry</i> , 2006, 45, 12629-12638.	1.2	73
10	Hyperthermia-induced inhibition of respiration and mitochondrial protein denaturation in CHL cells. <i>International Journal of Hyperthermia</i> , 1987, 3, 123-132.	1.1	57
11	Regulation of Calcium Channel Activity by Lipid Domain Formation in Planar Lipid Bilayers. <i>Biophysical Journal</i> , 2003, 85, 933-942.	0.2	56
12	The superlattice model of lateral organization of membranes and its implications on membrane lipid homeostasis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 12-23.	1.4	56
13	Microfluidic-based diagnostics for cervical cancer cells. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1991-1995.	5.3	51
14	Cholesterol Modulates the Interaction of β -Amyloid Peptide with Lipid Bilayers. <i>Biophysical Journal</i> , 2009, 96, 4299-4307.	0.2	51
15	Molecular Dynamics Simulations Reveal the Protective Role of Cholesterol in β -Amyloid Protein-Induced Membrane Disruptions in Neuronal Membrane Mimics. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9795-9812.	1.2	48
16	Factors influencing survival and growth of mammalian cells exposed to hypothermia. I. Effects of temperature and membrane lipid perturbers. <i>Journal of Cellular Physiology</i> , 1983, 115, 179-185.	2.0	46
17	Recognition and capture of breast cancer cells using an antibody-based platform in a microelectromechanical systems device. <i>Biomedical Microdevices</i> , 2007, 9, 35-42.	1.4	43
18	Characteristics of Pyrene Phospholipid/ β -Cyclodextrin Complex. <i>Biophysical Journal</i> , 2001, 81, 1501-1510.	0.2	41

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19	Time-Resolved Fluorescence and Fourier Transform Infrared Spectroscopic Investigations of Lateral Packing Defects and Superlattice Domains in Compositionally Uniform Cholesterol/Phosphatidylcholine Bilayers. <i>Biophysical Journal</i> , 2003, 84, 3777-3791.	0.2	39
20	Correlation between bilayer destabilization and activity enhancement by diacylglycerols in reconstituted Ca-ATPase vesicles. <i>Archives of Biochemistry and Biophysics</i> , 1986, 244, 382-386.	1.4	35
21	Luminescence Decay Dynamics and Trace Biomaterials Detection Potential of Surface-Functionalized Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17931-17939.	1.5	35
22	Fluorescence depolarization study of lamellar liquid crystalline to inverted cylindrical micellar phase transition of phosphatidylethanolamine. <i>Biophysical Journal</i> , 1989, 55, 1025-1031.	0.2	31
23	Cholesterol Supports Headgroup Superlattice Domain Formation in Fluid Phospholipid/Cholesterol Bilayers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6339-6350.	1.2	30
24	Evidence for superlattice arrangements in fluid phosphatidylcholine/phosphatidylethanolamine bilayers. <i>Biophysical Journal</i> , 1997, 73, 1967-1976.	0.2	29
25	Fluorescence Studies of Dehydroergosterol in Phosphatidylethanolamine/Phosphatidylcholine Bilayers. <i>Biophysical Journal</i> , 1999, 77, 3108-3119.	0.2	29
26	In vivo tissue characterization of human brain by chisquares parameter maps: Multiparameter proton T2-relaxation analysis. <i>Magnetic Resonance Imaging</i> , 1994, 12, 1099-1109.	1.0	28
27	Coarse-grained MD simulations reveal beta-amyloid fibrils of various sizes bind to interfacial liquid-ordered and liquid-disordered regions in phase separated lipid rafts with diverse membrane-bound conformational states. <i>Biophysical Chemistry</i> , 2020, 260, 106355.	1.5	28
28	Quantitation of lateral stress in lipid layer containing nonbilayer phase preferring lipids by frequency-domain fluorescence spectroscopy. <i>Biochemistry</i> , 1992, 31, 3759-3768.	1.2	24
29	Molecular Dynamics Studies of the Molecular Structure and Interactions of Cholesterol Superlattices and Random Domains in an Unsaturated Phosphatidylcholine Bilayer Membrane. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11021-11031.	1.2	24
30	Effects of lateral diffusion on the fluorescence anisotropy in hexagonal lipid phases. II. An experimental study. <i>Biophysical Journal</i> , 1990, 58, 1527-1537.	0.2	23
31	Cell Detachment Model for an Antibody-Based Microfluidic Cancer Screening System. <i>Biotechnology Progress</i> , 2008, 22, 1426-1433.	1.3	23
32	Exploration of Functionalized CdTe Nanoparticles for Latent Fingerprint Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1170-1173.	0.9	23
33	Infrared study of the polymorphic phase behavior of dioleoylphosphatidylethanolamine and dioleoylphosphatidylcholine mixtures. <i>Chemistry and Physics of Lipids</i> , 1991, 60, 119-125.	1.5	22
34	Cholesterol Modulated Antibody Binding in Supported Lipid Membranes as Determined by Total Internal Reflectance Microscopy on a Microfabricated High-throughput Glass Chip. <i>Langmuir</i> , 2005, 21, 9666-9674.	1.6	21
35	Detection of membrane packing defects by time-resolved fluorescence depolarization. <i>Biophysical Journal</i> , 1996, 71, 878-884.	0.2	19
36	Effects of lateral diffusion on the fluorescence anisotropy in hexagonal lipid phases. I. Theory. <i>Biophysical Journal</i> , 1990, 58, 1517-1526.	0.2	17

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37	Headgroup hydration and motional order of lipids in lamellar liquid crystalline and inverted hexagonal phases of unsaturated phosphatidylethanolamine—A time-resolved fluorescence study. <i>Chemistry and Physics of Lipids</i> , 1990, 53, 191-202.	1.5	16
38	Lateral diffusion study of excimer-forming lipids in lamellar to inverted hexagonal phase transition of unsaturated phosphatidylethanolamine. <i>Chemistry and Physics of Lipids</i> , 1990, 53, 321-329.	1.5	16
39	Intramolecular excimer kinetics of fluorescent dipyrenyl lipids: 2. DOPE/DOPC membranes. <i>Biophysical Journal</i> , 1994, 67, 914-921.	0.2	15
40	The effects of cidofovir on progressive multifocal leukoencephalopathy: an MRI case study. <i>Neuroradiology</i> , 2001, 43, 379-382.	1.1	15
41	Improved yield of plasma membrane from mammalian cells through modifications of the two-phase polymer isolation procedure. <i>Analytical Biochemistry</i> , 1984, 138, 112-118.	1.1	14
42	Differential polarized phase fluorometric studies of the perturbation of phospholipid packing by BHT. <i>Chemistry and Physics of Lipids</i> , 1985, 37, 373-383.	1.5	14
43	Detection and characterization of the onset of bilayer packing defects by nanosecond-resolved intramolecular excimer fluorescence spectroscopy. <i>Chemistry and Physics of Lipids</i> , 1994, 74, 49-64.	1.5	14
44	Fluorescence depolarization study on non-bilayer phases of phosphatidylethanolamine and phosphatidylcholine lipid mixtures. <i>Chemistry and Physics of Lipids</i> , 1989, 51, 137-145.	1.5	13
45	Inactivation of calcium uptake by EGTA is due to an irreversible thermotropic conformational change in the calcium binding domain of the calcium-ATPase. <i>Biochemistry</i> , 1992, 31, 4074-4080.	1.2	13
46	Quantitation of non-einstein diffusion behavior of water in biological tissues by proton MR diffusion imaging: Synthetic image calculations. <i>Magnetic Resonance Imaging</i> , 1993, 11, 569-583.	1.0	12
47	Exploration of Functionalized CdTe Nanoparticles for Latent Fingerprint Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1170-1173.	0.9	12
48	Infrared study of the bilayer stability behavior of binary and ternary phospholipid mixtures containing unsaturated phosphatidylethanolamine. <i>Chemistry and Physics of Lipids</i> , 1994, 70, 43-51.	1.5	11
49	Intramolecular excimer kinetics of fluorescent dipyrenyl lipids: 1. DMPC/cholesterol membranes. <i>Biophysical Journal</i> , 1994, 67, 902-913.	0.2	11
50	Infrared and time-resolved fluorescence spectroscopic studies of the polymorphic phase behavior of phosphatidylethanolamine/diacylglycerol lipid mixtures. <i>Chemistry and Physics of Lipids</i> , 1990, 56, 149-158.	1.5	10
51	Lipid Headgroup Superlattice Modulates the Activity of Surface-Acting Cholesterol Oxidase in Ternary Phospholipid/Cholesterol Bilayers. <i>Biochemistry</i> , 2006, 45, 10855-10864.	1.2	10
52	Maximally asymmetric transbilayer distribution of anionic lipids alters the structure and interaction with lipids of an amyloidogenic protein dimer bound to the membrane surface. <i>Chemistry and Physics of Lipids</i> , 2016, 196, 33-51.	1.5	10
53	Effects of unsaturation and curvature on the transverse distribution of intramolecular dynamics of dipyrenyl lipids. <i>Biophysical Journal</i> , 1996, 70, 2287-2298.	0.2	9
54	A self consistent normalized calibration protocol for three dimensional magnetic resonance gel dosimetry. <i>Magnetic Resonance Imaging</i> , 2002, 20, 667-679.	1.0	9

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55	Effect of quinone on the fluorescence decay dynamics of endogenous flavin bound to bacterial luciferase. <i>Biophysical Chemistry</i> , 2009, 141, 59-65.	1.5	8
56	Activation energy and entropy for intramolecular excimer formation in a dipyrrenylphosphatidylcholine probe in lamellar and hexagonal lipid phases. <i>Chemistry and Physics of Lipids</i> , 1992, 62, 39-43.	1.5	7
57	Frequency-resolved intramolecular excimer fluorescence study of lipid bilayer and nonbilayer phases. <i>Biophysical Journal</i> , 1993, 64, 1869-1877.	0.2	7
58	Lipid insertion domain unfolding regulates protein orientational transition behavior in a lipid bilayer. <i>Biophysical Chemistry</i> , 2015, 206, 22-39.	1.5	7
59	Characterization of 3D Voronoi tessellation nearest neighbor lipid shells provides atomistic lipid disruption profile of protein containing lipid membranes. <i>Biophysical Chemistry</i> , 2015, 198, 22-35.	1.5	6
60	Photoluminescent Semiconductor Nanocrystals for Fingerprint Detection. <i>Journal of Forensic Sciences</i> , 2000, 45, 545-551.	0.9	6
61	Scaling and alpha-helix regulation of protein relaxation in a lipid bilayer. <i>Journal of Chemical Physics</i> , 2014, 141, 225101.	1.2	4
62	Acyl-Chain Mismatch Driven Superlattice Arrangements in DPPC/DLPC/Cholesterol Bilayers. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10105-10113.	1.2	3
63	Calorimetric Behavior of Phosphatidylcholine/Phosphatidylethanolamine Bilayers is Compatible with the Superlattice Model. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1802-1811.	1.2	3
64	4,5-Dimethoxy-2-nitrobenzohydrazides and 1-(1-Benzylpiperidin-4-yl)ethan-1-ones as Potential Antioxidant/Cholinergic Endowed Small Molecule Leads. <i>Scientia Pharmaceutica</i> , 2018, 86, 2.	0.7	3
65	Data supporting beta-amyloid dimer structural transitions and protein-lipid interactions on asymmetric lipid bilayer surfaces using MD simulations on experimentally derived NMR protein structures. <i>Data in Brief</i> , 2016, 7, 658-672.	0.5	2
66	Dynamic Fingering in Adhered Lipid Membranes. <i>Langmuir</i> , 2018, 34, 4673-4680.	1.6	2
67	Data showing the lipid conformations and membrane binding behaviors of beta-amyloid fibrils in phase-separated cholesterol-enriched lipid domains with and without glycolipid and oxidized cholesterol from coarse-grained molecular dynamics simulations. <i>Data in Brief</i> , 2020, 30, 105496.	0.5	1
68	Exploration of functionalized CdTe nanoparticles for latent fingerprint detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1170-3.	0.9	1
69	<title>Fluorescence detection and characterization of packing defects in lyotropic liquid crystals</title>. , 1996, , .		0
70	<title>Time-resolved excimer fluorescence spectroscopy in lipid membranes</title>. , 1996, 2705, 124.		0