

# Kwan H Cheng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1498939/publications.pdf>

Version: 2024-02-01

70  
papers

2,236  
citations

218381

26  
h-index

223531

46  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2160  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Dynamic Fingering in Adhered Lipid Membranes. <i>Langmuir</i> , 2018, 34, 4673-4680.	1.6	2
4	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
5	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
6	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
7	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
8	Lipid insertion domain unfolding regulates protein orientational transition behavior in a lipid bilayer. <i>Biophysical Chemistry</i> , 2015, 206, 22-39.	1.5	7
9	Scaling and alpha-helix regulation of protein relaxation in a lipid bilayer. <i>Journal of Chemical Physics</i> , 2014, 141, 225101.	1.2	4
10	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
11	Molecular Dynamics Simulations Reveal the Protective Role of Cholesterol in $\beta$ -Amyloid Protein-Induced Membrane Disruptions in Neuronal Membrane Mimics. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9795-9812.	1.2	48
12	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
13	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
14	Cholesterol Modulates the Interaction of $\beta$ -Amyloid Peptide with Lipid Bilayers. <i>Biophysical Journal</i> , 2009, 96, 4299-4307.	0.2	51
15	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
16	Exploration of the use of novel SiO <sub>2</sub> nanocomposites doped with fluorescent Eu <sup>3+</sup> /sensitizer complex for latent fingerprint detection. <i>Forensic Science International</i> , 2008, 176, 163-172.	1.3	78
17	Cell Detachment Model for an Antibody-Based Microfluidic Cancer Screening System. <i>Biotechnology Progress</i> , 2008, 22, 1426-1433.	1.3	23
18	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

#	ARTICLE	IF	CITATIONS
19	Exploration of Functionalized CdTe Nanoparticles for Latent Fingerprint Detection. Journal of Nanoscience and Nanotechnology, 2008, 8, 1170-1173.	0.9	12
20	Exploration of Functionalized CdTe Nanoparticles for Latent Fingerprint Detection. Journal of Nanoscience and Nanotechnology, 2008, 8, 1170-1173.	0.9	23
21	Exploration of functionalized CdTe nanoparticles for latent fingerprint detection. Journal of Nanoscience and Nanotechnology, 2008, 8, 1170-3.	0.9	1
22	Assess the nature of cholesterol-lipid interactions through the chemical potential of cholesterol in phosphatidylcholine bilayers. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5372-5377.	3.3	140
23	Molecular Dynamics Studies of the Molecular Structure and Interactions of Cholesterol Superlattices and Random Domains in an Unsaturated Phosphatidylcholine Bilayer Membrane. Journal of Physical Chemistry B, 2007, 111, 11021-11031.	1.2	24
24	Recognition and capture of breast cancer cells using an antibody-based platform in a microelectromechanical systems device. Biomedical Microdevices, 2007, 9, 35-42.	1.4	43
25	Cholesterol Supports Headgroup Superlattice Domain Formation in Fluid Phospholipid/Cholesterol Bilayers. Journal of Physical Chemistry B, 2006, 110, 6339-6350.	1.2	30
26	Lipid Headgroup Superlattice Modulates the Activity of Surface-Acting Cholesterol Oxidase in Ternary Phospholipid/Cholesterol Bilayers. Biochemistry, 2006, 45, 10855-10864.	1.2	10
27	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. Biochemistry, 2006, 45, 12629-12638.	1.2	73
28	Microfluidic-based diagnostics for cervical cancer cells. Biosensors and Bioelectronics, 2006, 21, 1991-1995.	5.3	51
29	Cholesterol Modulated Antibody Binding in Supported Lipid Membranes as Determined by Total Internal Reflectance Microscopy on a Microfabricated High-throughput Glass Chip. Langmuir, 2005, 21, 9666-9674.	1.6	21
30	Lateral Distribution of Cholesterol in Dioleoylphosphatidylcholine Lipid Bilayers: Cholesterol-Phospholipid Interactions at High Cholesterol Limit. Biophysical Journal, 2004, 86, 1532-1544.	0.2	102
31	Time-Resolved Fluorescence and Fourier Transform Infrared Spectroscopic Investigations of Lateral Packing Defects and Superlattice Domains in Compositionally Uniform Cholesterol/Phosphatidylcholine Bilayers. Biophysical Journal, 2003, 84, 3777-3791.	0.2	39
32	Regulation of Calcium Channel Activity by Lipid Domain Formation in Planar Lipid Bilayers. Biophysical Journal, 2003, 85, 933-942.	0.2	56
33	A self consistent normalized calibration protocol for three dimensional magnetic resonance gel dosimetry. Magnetic Resonance Imaging, 2002, 20, 667-679.	1.0	9
34	Characteristics of Pyrene Phospholipid/ $\beta$ -Cyclodextrin Complex. Biophysical Journal, 2001, 81, 1501-1510.	0.2	41
35	The effects of cidofovir on progressive multifocal leukoencephalopathy: an MRI case study. Neuroradiology, 2001, 43, 379-382.	1.1	15
36	Photoluminescent Semiconductor Nanocrystals for Fingerprint Detection. Journal of Forensic Sciences, 2000, 45, 545-551.	0.9	6

#	ARTICLE	IF	CITATIONS
37	Photoluminescent CdS/Dendrimer Nanocomposites for Fingerprint Detection. <i>Journal of Forensic Sciences</i> , 2000, 45, 770-773.	0.9	92
38	Lateral organisation of membrane lipids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 1999, 1440, 32-48.	1.2	146
39	Fluorescence Studies of Dehydroergosterol in Phosphatidylethanolamine/Phosphatidylcholine Bilayers. <i>Biophysical Journal</i> , 1999, 77, 3108-3119.	0.2	29
40	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
41	Evidence for superlattice arrangements in fluid phosphatidylcholine/phosphatidylethanolamine bilayers. <i>Biophysical Journal</i> , 1997, 73, 1967-1976.	0.2	29
42	Detection of membrane packing defects by time-resolved fluorescence depolarization. <i>Biophysical Journal</i> , 1996, 71, 878-884.	0.2	19
43	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
44	<title>Fluorescence detection and characterization of packing defects in lyotropic liquid crystals</title>. , 1996, , .		0
45	<title>Time-resolved excimer fluorescence spectroscopy in lipid membranes</title>. , 1996, 2705, 124.		0
46	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
47	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
48	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
49	Intramolecular excimer kinetics of fluorescent dipyrenyl lipids: 1. DMPC/cholesterol membranes. <i>Biophysical Journal</i> , 1994, 67, 902-913.	0.2	11
50	Intramolecular excimer kinetics of fluorescent dipyrenyl lipids: 2. DOPE/DOPC membranes. <i>Biophysical Journal</i> , 1994, 67, 914-921.	0.2	15
51	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
52	Frequency-resolved intramolecular excimer fluorescence study of lipid bilayer and nonbilayer phases. <i>Biophysical Journal</i> , 1993, 64, 1869-1877.	0.2	7
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	Activation energy and entropy for intramolecular excimer formation in a dipyrenylphosphatidylcholine probe in lamellar and hexagonal lipid phases. <i>Chemistry and Physics of Lipids</i> , 1992, 62, 39-43.	1.5	7
56	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
57	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
58	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
59	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
60	Thermal denaturation of the calcium ATPase of sarcoplasmic reticulum reveals two thermodynamically independent domains. <i>Biochemistry</i> , 1990, 29, 681-689.	1.2	108
61	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
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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