

Christopher M Yip

List of Publications by Citations

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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.

111
papers

5,826
citations

41
h-index

75
g-index

125
ext. papers

6,410
ext. citations

6.4
avg, IF

5.46
L-index

#	Paper	IF	Citations
111	alpha-Synuclein membrane interactions and lipid specificity. <i>Journal of Biological Chemistry</i> , 2000 , 275, 34328-34	5.4	438
110	Elimination of host cell PtdIns(4,5)P(2) by bacterial SigD promotes membrane fission during invasion by Salmonella. <i>Nature Cell Biology</i> , 2002 , 4, 766-73	23.4	246
109	Roles of hydrophobicity and charge distribution of cationic antimicrobial peptides in peptide-membrane interactions. <i>Journal of Biological Chemistry</i> , 2012 , 287, 7738-45	5.4	238
108	Solution phase synthesis of carbon quantum dots as sensitizers for nanocrystalline TiO ₂ solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1265-1269		236
107	Quantitative and dynamic assessment of the contribution of the ER to phagosome formation. <i>Cell</i> , 2005 , 123, 157-70	56.2	230
106	Amyloid-beta peptide assembly: a critical step in fibrillogenesis and membrane disruption. <i>Biophysical Journal</i> , 2001 , 80, 1359-71	2.9	210
105	Structural studies of soluble oligomers of the Alzheimer beta-amyloid peptide. <i>Journal of Molecular Biology</i> , 2000 , 297, 73-87	6.5	201
104	Manipulating the amyloid-beta aggregation pathway with chemical chaperones. <i>Journal of Biological Chemistry</i> , 1999 , 274, 32970-4	5.4	201
103	Correlated fluorescence-atomic force microscopy of membrane domains: structure of fluorescence probes determines lipid localization. <i>Biophysical Journal</i> , 2006 , 90, 2170-8	2.9	172
102	Abeta42-peptide assembly on lipid bilayers. <i>Journal of Molecular Biology</i> , 2002 , 318, 97-107	6.5	168
101	VAPs and ACBD5 tether peroxisomes to the ER for peroxisome maintenance and lipid homeostasis. <i>Journal of Cell Biology</i> , 2017 , 216, 367-377	7.3	142
100	Molecular chaperone Hsp90 stabilizes Pih1/Nop17 to maintain R2TP complex activity that regulates snoRNA accumulation. <i>Journal of Cell Biology</i> , 2008 , 180, 563-78	7.3	139
99	Copper(II)-induced conformational changes and protease resistance in recombinant and cellular PrP. Effect of protein age and deamidation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 19121-31	5.4	126
98	The evolution of soot morphology in a laminar coflow diffusion flame of a surrogate for Jet A-1. <i>Combustion and Flame</i> , 2013 , 160, 2119-2130	5.3	117
97	Biodegradable quantum dot nanocomposites enable live cell labeling and imaging of cytoplasmic targets. <i>Nano Letters</i> , 2008 , 8, 3887-92	11.5	113
96	Polymer-Stabilized Lanthanide Fluoride Nanoparticle Aggregates as Contrast Agents for Magnetic Resonance Imaging and Computed Tomography. <i>Chemistry of Materials</i> , 2010 , 22, 4728-4739	9.6	104
95	Two-dimensional slither swimming of sperm within a micrometre of a surface. <i>Nature Communications</i> , 2015 , 6, 8703	17.4	103

94	Dynamic macrophage "probing" is required for the efficient capture of phagocytic targets. <i>Journal of Cell Biology</i> , 2010 , 191, 1205-18	7.3	102
93	Direct evidence for membrane pore formation by the apoptotic protein Bax. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 298, 744-9	3.4	94
92	Alternate aggregation pathways of the Alzheimer beta-amyloid peptide: Abeta association kinetics at endosomal pH. <i>Journal of Molecular Biology</i> , 2003 , 325, 743-57	6.5	87
91	Color from colorless nanomaterials: Bragg reflectors made of nanoparticles. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3500		80
90	Mechanisms of antimicrobial peptide action: studies of indolicidin assembly at model membrane interfaces by in situ atomic force microscopy. <i>Journal of Structural Biology</i> , 2006 , 154, 42-58	3.4	75
89	Substrate-facilitated assembly of elastin-like peptides: studies by variable-temperature in situ atomic force microscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10648-9	16.4	72
88	Cationic peptide-induced remodelling of model membranes: direct visualization by in situ atomic force microscopy. <i>Journal of Structural Biology</i> , 2008 , 162, 121-38	3.4	70
87	Ordered 2D arrays of ferromagnetic Fe/Co nanoparticle rings from a highly metallized metallopolymer precursor. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1686		70
86	Indolicidin binding induces thinning of a lipid bilayer. <i>Biophysical Journal</i> , 2014 , 106, L29-31	2.9	68
85	Lsr2 of <i>Mycobacterium tuberculosis</i> is a DNA-bridging protein. <i>Nucleic Acids Research</i> , 2008 , 36, 2123-35	20.1	67
84	Molecular imaging of membrane interfaces reveals mode of beta-glucosidase activation by saposin C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17394-9	11.5	62
83	Stick-slip of the three-phase line in measurements of dynamic contact angles. <i>Langmuir</i> , 2006 , 22, 628-36		61
82	Protein-induced formation of cholesterol-rich domains. <i>Biochemistry</i> , 2001 , 40, 10514-21	3.2	61
81	Amyloid fibrils of glucagon characterized by high-resolution atomic force microscopy. <i>Biophysical Journal</i> , 2006 , 91, 1905-14	2.9	59
80	Peptide-induced domain formation in supported lipid bilayers: direct evidence by combined atomic force and polarized total internal reflection fluorescence microscopy. <i>Biophysical Journal</i> , 2010 , 98, 815-23	2.9	53
79	Pyrolysis of Highly Metallized Polymers: Ceramic Thin Films Containing Magnetic CoFe Alloy Nanoparticles from a Polyferrocenylsilane with Pendant Cobalt Clusters. <i>Chemistry of Materials</i> , 2006 , 18, 2591-2601	9.6	52
78	Structural and morphological characterization of ultralente insulin crystals by atomic force microscopy: evidence of hydrophobically driven assembly. <i>Biophysical Journal</i> , 1998 , 75, 1172-9	2.9	51
77	Properties of a novel magnetized alginate for magnetic resonance imaging. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 282-92	4.9	50

76	The mechanism of membrane disruption by cytotoxic amyloid oligomers formed by prion protein(106-126) is dependent on bilayer composition. <i>Journal of Biological Chemistry</i> , 2014 , 289, 10419-10430 ⁴⁸	5.4	48
75	Phosphatidylserine dictates the assembly and dynamics of caveolae in the plasma membrane. <i>Journal of Biological Chemistry</i> , 2017 , 292, 14292-14307	5.4	45
74	Simultaneous in situ total internal reflectance fluorescence/atomic force microscopy studies of DPPC/dPOPC microdomains in supported planar lipid bilayers. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11838-9	16.4	44
73	Molecular dynamics simulations of indolicidin association with model lipid bilayers. <i>Biophysical Journal</i> , 2007 , 92, L100-2	2.9	42
72	Characterization of nanostructure of stimuli-responsive polymeric composite membranes. <i>Biomacromolecules</i> , 2004 , 5, 1248-55	6.9	42
71	Cholesterol-dependent partitioning of PtdIns(4,5)P2 into membrane domains by the N-terminal fragment of NAP-22 (neuronal axonal myristoylated membrane protein of 22 kDa). <i>Biochemical Journal</i> , 2004 , 379, 527-32	3.8	42
70	An ATG16L1-dependent pathway promotes plasma membrane repair and limits Listeria monocytogenes cell-to-cell spread. <i>Nature Microbiology</i> , 2018 , 3, 1472-1485	26.6	40
69	Direct force measurements of insulin monomer-monomer interactions. <i>Biochemistry</i> , 1998 , 37, 5439-49	3.2	39
68	Single molecule imaging of supported planar lipid bilayer--reconstituted human insulin receptors by in situ scanning probe microscopy. <i>Journal of Structural Biology</i> , 2002 , 137, 283-91	3.4	38
67	Direct visualization of saposin remodelling of lipid bilayers. <i>Journal of Molecular Biology</i> , 2006 , 362, 943-53	5.3	36
66	Probing membrane order and topography in supported lipid bilayers by combined polarized total internal reflection fluorescence-atomic force microscopy. <i>Biophysical Journal</i> , 2009 , 96, 1970-84	2.9	35
65	Co-incorporation of A beta 40 and A beta 42 to form mixed pre-fibrillar aggregates. <i>FEBS Journal</i> , 2003 , 270, 654-63		35
64	Microdomain pH gradient and kinetics inside composite polymeric membranes of pH and glucose sensitivity. <i>Pharmaceutical Research</i> , 2008 , 25, 1150-7	4.5	34
63	Carboxymethyl cellulose binding to mineral substrates: characterization by atomic force microscopy-based force spectroscopy and quartz-crystal microbalance with dissipation monitoring. <i>Journal of Colloid and Interface Science</i> , 2013 , 402, 58-67	9.3	33
62	Combinatorial microscopy for the study of protein-membrane interactions in supported lipid bilayers: Order parameter measurements by combined polarized TIRFM/AFM. <i>Journal of Structural Biology</i> , 2009 , 168, 21-36	3.4	33
61	Atomic force microscopy of macromolecular interactions. <i>Current Opinion in Structural Biology</i> , 2001 , 11, 567-72	8.1	33
60	Shake-it-off: a simple ultrasonic cryo-EM specimen-preparation device. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019 , 75, 1063-1070	5.5	31
59	Non-wettable, oxidation-stable, brightly luminescent, perfluorodecyl-capped silicon nanocrystal film. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15849-52	16.4	30

58	Reversible assembly of helical filaments by de novo designed minimalist peptides. <i>Biopolymers</i> , 2005 , 80, 26-33	2.2	30
57	The sticholysin family of pore-forming toxins induces the mixing of lipids in membrane domains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 2757-62	3.8	28
56	Charge Carrier Mobility in Fluorinated Phenoxy Boron Subphthalocyanines: Role of Solid State Packing. <i>Crystal Growth and Design</i> , 2012 , 12, 1095-1100	3.5	28
55	Structural studies of a crystalline insulin analog complex with protamine by atomic force microscopy. <i>Biophysical Journal</i> , 2000 , 78, 466-73	2.9	28
54	Ubiquitin orchestrates proteasome dynamics between proliferation and quiescence in yeast. <i>Molecular Biology of the Cell</i> , 2017 , 28, 2479-2491	3.5	27
53	Forces of interactions between bare and polymer-coated iron and silica: effect of pH, ionic strength, and humic acids. <i>Environmental Science & Technology</i> , 2012 , 46, 13401-8	10.3	27
52	A lateral signalling pathway coordinates shape volatility during cell migration. <i>Nature Communications</i> , 2016 , 7, 11714	17.4	27
51	Force-induced insulin dimer dissociation: a molecular dynamics study. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5330-1	16.4	26
50	Tracking peptide-membrane interactions: insights from in situ coupled confocal-atomic force microscopy imaging of NAP-22 peptide insertion and assembly. <i>Journal of Structural Biology</i> , 2006 , 155, 458-69	3.4	25
49	Rab7 palmitoylation is required for efficient endosome-to-TGN trafficking. <i>Journal of Cell Science</i> , 2017 , 130, 2579-2590	5.3	24
48	Binding of TDP-43 to the 3'UTR of its cognate mRNA enhances its solubility. <i>Biochemistry</i> , 2014 , 53, 5885-5894	5.24	24
47	Coupling evanescent-wave fluorescence imaging and spectroscopy with scanning probe microscopy: challenges and insights from TIRF-AFM. <i>Surface and Interface Analysis</i> , 2006 , 38, 1459-1471	1.5	24
46	Self-assembly of influenza hemagglutinin: studies of ectodomain aggregation by in situ atomic force microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001 , 1513, 167-75	3.8	24
45	mTOR complex 1 controls the nuclear localization and function of glycogen synthase kinase 3 β . <i>Journal of Biological Chemistry</i> , 2018 , 293, 14723-14739	5.4	23
44	Forces of interaction between fresh iron particles and iron oxide (magnetite): Effect of water chemistry and polymer coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 433, 104-110	5.1	22
43	Automated cell tracking identifies mechanically oriented cell divisions during axis elongation. <i>Development (Cambridge)</i> , 2017 , 144, 1350-1361	6.6	21
42	Lipophilicity of the Cystic Fibrosis Drug, Ivacaftor (VX-770), and Its Destabilizing Effect on the Major CF-causing Mutation: F508del. <i>Molecular Pharmacology</i> , 2018 , 94, 917-925	4.3	21
41	Inside-out signaling promotes dynamic changes in the carcinoembryonic antigen-related cellular adhesion molecule 1 (CEACAM1) oligomeric state to control its cell adhesion properties. <i>Journal of Biological Chemistry</i> , 2013 , 288, 29654-69	5.4	20

40	Tracking molecular interactions in membranes by simultaneous ATR-FTIR-AFM. <i>Biophysical Journal</i> , 2009 , 97, 1225-31	2.9	20
39	In situ scanning probe microscopy studies of tetanus toxin-membrane interactions. <i>Biophysical Journal</i> , 2006 , 91, 4565-74	2.9	20
38	UV photopatterning of a highly metallized, cluster-containing poly(ferrocenylsilane). <i>Chemical Communications</i> , 2004 , 780-1	5.8	20
37	Mitochondrial Genome Maintenance 1 (Mgm1) Protein Alters Membrane Topology and Promotes Local Membrane Bending. <i>Journal of Molecular Biology</i> , 2015 , 427, 2599-609	6.5	19
36	Combined scanning probe and total internal reflection fluorescence microscopy. <i>Methods</i> , 2008 , 46, 2-10	4.6	18
35	Nanoconfined Electrochemical Nucleation of Crystalline Molecular Monolayers on Graphite Substrates. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9958-9965	3.4	17
34	Cardiolipin synthesizing enzymes form a complex that interacts with cardiolipin-dependent membrane organizing proteins. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018 , 1863, 447-457	5	14
33	Analysis of Replicating Yeast Chromosomes by DNA Combing. <i>Cold Spring Harbor Protocols</i> , 2016 , 2016, pdb.prot085118	1.2	13
32	Effect of water chemistry and aging on iron-mica interaction forces: implications for iron particle transport. <i>Langmuir</i> , 2012 , 28, 10453-63	4	13
31	Supported lipid bilayer templated J-aggregate growth: role of stabilizing cation-pi interactions and headgroup packing. <i>Langmuir</i> , 2009 , 25, 10719-29	4	13
30	Postalkylation of a Common mPEG-b-PAGE Precursor to Produce Tunable Morphologies of Spheres, Filomicelles, Disks, and Polymersomes. <i>ACS Macro Letters</i> , 2016 , 5, 128-133	6.6	12
29	Super-resolved FT-IR spectroscopy: Strategies, challenges, and opportunities for membrane biophysics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 2272-82	3.8	12
28	Nanoscale reorganization of sarcoplasmic reticulum in pressure-overload cardiac hypertrophy visualized by dSTORM. <i>Scientific Reports</i> , 2019 , 9, 7867	4.9	11
27	Forces of interactions between iron and aluminum silicates: effect of water chemistry and polymer coatings. <i>Journal of Colloid and Interface Science</i> , 2013 , 411, 8-15	9.3	10
26	Mechanism of Amyloidogenesis of a Bacterial AAA+ Chaperone. <i>Structure</i> , 2016 , 24, 1095-109	5.2	9
25	Quaternary structure of the neuronal protein NAP-22 in aqueous solution. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1650, 50-8	4	9
24	Biomaterials in reparative medicine: biorelevant structure-property analysis. <i>Annals of the New York Academy of Sciences</i> , 2002 , 961, 109-11	6.5	8
23	The marginal cells of the <i>Caenorhabditis elegans</i> pharynx scavenge cholesterol and other hydrophobic small molecules. <i>Nature Communications</i> , 2019 , 10, 3938	17.4	7

22	Single-Molecule Analysis of Replicating Yeast Chromosomes. <i>Cold Spring Harbor Protocols</i> , 2016 , 2016, pdb.top077784	1.2	4
21	Quantitative analysis of catheter roughness induced by cutting and manipulation: a potential prothrombotic risk. <i>Blood Coagulation and Fibrinolysis</i> , 2007 , 18, 531-6	1	4
20	Functional culture and in vitro genetic and small-molecule manipulation of adult mouse cardiomyocytes. <i>Communications Biology</i> , 2020 , 3, 229	6.7	4
19	Correlative optical and scanning probe microscopies for mapping interactions at membranes. <i>Methods in Molecular Biology</i> , 2013 , 950, 439-56	1.4	3
18	Nucleation and growth of elastin-like peptide fibril multilayers: an in situ atomic force microscopy study. <i>Nanotechnology</i> , 2011 , 22, 494018	3.4	3
17	Shake-it-off: A simple ultrasonic cryo-EM specimen preparation device		3
16	Single-molecule localization microscopy of septin bundles in mammalian cells. <i>Cytoskeleton</i> , 2019 , 76, 63-72	2.4	3
15	High Density or Urban Sprawl: What Works Best in Biology?. <i>ACS Nano</i> , 2017 , 11, 1131-1135	16.7	2
14	Substrate-Dependent Galvanotaxis of Directly Reprogrammed Human Neural Precursor Cells. <i>Bioelectricity</i> , 2020 , 2, 229-237	2	2
13	Myofibroblast YAP/TAZ activation is a key step in organ fibrogenesis.. <i>JCI Insight</i> , 2022 , 7,	9.9	2
12	Star light, star bright, first molecule I see tonight. <i>Biophysical Journal</i> , 2014 , 106, 987-8	2.9	1
11	Structural templating of J-aggregates: Visualizing bis(monoacylglycero)phosphate domains in live cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 1687-1695	4	1
10	SELF-EMULSIFYING DELIVERY SYSTEMS AND LIPID TRANSPORT 2012 , 135-170		1
9	Hyperspectral super-resolution imaging with far-red emitting fluorophores using a thin-film tunable filter. <i>Review of Scientific Instruments</i> , 2020 , 91, 123703	1.7	1
8	Correlated Single Molecule Fluorescence and Scanning Probe Microscopies: Applications to the Study of Soft Materials. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 844, 21		
7	Correlated Single Molecule Fluorescence and Scanning Probe Microscopies: Applications to the Study of Soft Materials. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 841, R2.1.1/Y2.1.1		
6	Electrochemical Heteroepitaxial Growth of Molecular Films on Ordered Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 451, 161		
5	Atomic Force Microscopy. <i>The Electrical Engineering Handbook</i> , 2006 , 67-1-67-29		

- 4 mTORC1 controls GSK3 β nuclear localization. *FASEB Journal*, **2018**, 32, lb522 0.9
- 3 Dynamic macrophage probing is required for the efficient capture of phagocytic targets. *Journal of Experimental Medicine*, **2010**, 207, i37-i37 16.6
- 2 Angling for A Better View. *Biophysical Journal*, **2016**, 111, 1141-1142 2.9
- 1 8. Mapping protein and peptide membrane interactions by atomic force microscopy: strategies and opportunities **2019**, 269-286