CITATION REPORT List of articles citing

Modulation of rhodopsin function by properties of the membrane bilayer

DOI: 10.1016/0009-3084(94)90180-5 Chemistry and Physics of Lipids, 1994, 73, 159-80.

Source: https://exaly.com/paper-pdf/25045980/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
399	Role of Lipid Organization and Dynamics for Membrane Functionality. 1996 , 463-502		12
398	Effect of unsaturation on the chain order of phosphatidylcholines in a dioleoylphosphatidylethanolamine matrix. <i>Biophysical Journal</i> , 1996 , 71, 274-82	2.9	54
397	Surface plasmon resonance spectroscopy studies of membrane proteins: transducin binding and activation by rhodopsin monitored in thin membrane films. <i>Biophysical Journal</i> , 1996 , 71, 283-94	2.9	85
396	Membrane stiffness and channel function. <i>Biochemistry</i> , 1996 , 35, 3825-30	3.2	253
395	Decreased 20:4n I620:5n IB ratio in sperm from cultured sea bass, Dicentrarchus labrax, broodstock compared with wild fish. <i>Aquaculture</i> , 1996 , 144, 189-199	4.4	47
394	Effects of phosphatidylethanolamines on the activity of the Ca(2+)-ATPase of sarcoplasmic reticulum. 1996 , 320 (Pt 1), 309-14		32
393	Nuclear magnetic resonance investigation of hydrocarbon chain packing in bilayers of polyunsaturated phospholipids. 1996 , 31 Suppl, S199-203		49
392	NMR investigations of non-lamellar phase promoters in the lamellar phase state. <i>Chemistry and Physics of Lipids</i> , 1996 , 81, 105-116	3.7	61
391	Deficit of didocosahexaenoyl phospholipid in the eyes of larval sea bass fed an essential fatty acid deficient diet. 1996 , 49, 941-952		17
390	Chapter 8 Influence of Nonlamellar-Forming Lipids on Rhodopsin. 1997 , 44, 285-356		54
389	Molecular sorting of lipids by bacteriorhodopsin in dilauroylphosphatidylcholine lipid bilayers. <i>Biophysical Journal</i> , 1997 , 73, 1940-53	2.9	103
388	Molecular dynamics simulation of unsaturated lipid bilayers at low hydration: parameterization and comparison with diffraction studies. <i>Biophysical Journal</i> , 1997 , 73, 2269-79	2.9	291
387	Influence of membrane-spanning alpha-helical peptides on the phase behavior of the dioleoylphosphatidylcholine/water system. <i>Biophysical Journal</i> , 1997 , 73, 3078-88	2.9	56
386	Contrasting membrane localization and behavior of halogenated cyclobutanes that follow or violate the Meyer-Overton hypothesis of general anesthetic potency. <i>Biophysical Journal</i> , 1997 , 72, 175	4 - 61	66
385	Fatty acid composition, eicosanoid production and permeability in skin tissues of rainbow trout (Oncorhynchus mykiss) fed a control or an essential fatty acid deficient diet. 1997 , 56, 479-89		11
384	Notices. 1997 , 56, 489		
383	Small-scale lipid-membrane structure: simulation versus experiment. <i>Current Opinion in Structural Biology</i> , 1997 , 7, 518-27	8.1	113

382	The conformational preference of gramicidin channels is a function of lipid bilayer thickness. 1997 , 412, 15-20		110
381	Possible involvement of nonbilayer lipids in the stimulation of the activity of cytochrome P450SCC (CYP11A1) and its propensity to induce vesicle aggregation. <i>Chemistry and Physics of Lipids</i> , 1997 , 85, 91-9	3.7	8
380	Surface plasmon resonance spectroscopy as a tool for investigating the biochemical and biophysical properties of membrane protein systems. II: Applications to biological systems. 1997, 1331, 131-52		108
379	Modulation of the metarhodopsin I/metarhodopsin II equilibrium of bovine rhodopsin by ionic strengthevidence for a surface-charge effect. 1997 , 243, 174-80		39
378	Molecular speciation of fish sperm phospholipids: large amounts of dipolyunsaturated phosphatidylserine. 1997 , 32, 1085-91		34
377	Macroscopic orientation of natural and model membranes for structural studies. 1997 , 254, 132-8		52
376	The VEP and ERG in a young infant with cystic fibrosis. A case report. 1998 , 95, 63-71		6
375	The Effects of Chronic Ethanol Consumption on the Formation of Phosphatidylethanolamine Molecular Species and Their Appearance at the Plasma Membrane. 1998 , 22, 1245-1254		2
374	Hydrophobic mismatch between proteins and lipids in membranes. 1998 , 1376, 401-15		481
373	Remodeling of phospholipid fatty acids in mitochondrial membranes of estivating snails. 1998 , 33, 787	-93	21
373 372	Remodeling of phospholipid fatty acids in mitochondrial membranes of estivating snails. 1998 , 33, 787 Self-assembly and organization of lipid-protein membranes. 1998 , 3, 78-87	-93	21 52
		-93 4-4	
372	Self-assembly and organization of lipid-protein membranes. 1998, 3, 78-87 Lipid and fatty acid composition of normal and malpigmented Atlantic halibut (Hippoglossus hippoglossus) fed enriched Artemia: a comparison with fry fed wild copepods. Aquaculture, 1998,		52
37 ² 37 ¹	Self-assembly and organization of lipid-protein membranes. 1998, 3, 78-87 Lipid and fatty acid composition of normal and malpigmented Atlantic halibut (Hippoglossus hippoglossus) fed enriched Artemia: a comparison with fry fed wild copepods. Aquaculture, 1998, 163, 237-250 Lipids in total extracts from Acholeplasma laidlawii A pack more closely than the individual lipids. Monolayers studied at the air-water interface. Biochimica Et Biophysica Acta - Biomembranes, 1998,	4.4	52 119
37 ² 37 ¹ 37 ⁰	Self-assembly and organization of lipid-protein membranes. 1998, 3, 78-87 Lipid and fatty acid composition of normal and malpigmented Atlantic halibut (Hippoglossus hippoglossus) fed enriched Artemia: a comparison with fry fed wild copepods. <i>Aquaculture</i> , 1998, 163, 237-250 Lipids in total extracts from Acholeplasma laidlawii A pack more closely than the individual lipids. Monolayers studied at the air-water interface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1369, 94-102 Phospholipid acyl chain rotational dynamics are independent of headgroup structure in unilamellar vesicles containing binary mixtures of dioleoyl-phosphatidylcholine and	4.4	52 119 14
37 ² 37 ¹ 37 ⁰	Self-assembly and organization of lipid-protein membranes. 1998, 3, 78-87 Lipid and fatty acid composition of normal and malpigmented Atlantic halibut (Hippoglossus hippoglossus) fed enriched Artemia: a comparison with fry fed wild copepods. Aquaculture, 1998, 163, 237-250 Lipids in total extracts from Acholeplasma laidlawii A pack more closely than the individual lipids. Monolayers studied at the air-water interface. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1369, 94-102 Phospholipid acyl chain rotational dynamics are independent of headgroup structure in unilamellar vesicles containing binary mixtures of dioleoyl-phosphatidylcholine and dioleoyl-phosphatidylethanolamine. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1415, 63-76	4·4 3.8 3.8	52 119 14 15
37 ² 37 ¹ 37 ⁰ 369 368	Self-assembly and organization of lipid-protein membranes. 1998, 3, 78-87 Lipid and fatty acid composition of normal and malpigmented Atlantic halibut (Hippoglossus hippoglossus) fed enriched Artemia: a comparison with fry fed wild copepods. <i>Aquaculture</i> , 1998, 163, 237-250 Lipids in total extracts from Acholeplasma laidlawii A pack more closely than the individual lipids. Monolayers studied at the air-water interface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1369, 94-102 Phospholipid acyl chain rotational dynamics are independent of headgroup structure in unilamellar vesicles containing binary mixtures of dioleoyl-phosphatidylcholine and dioleoyl-phosphatidylethanolamine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1415, 63-76 Phosphorylation stabilizes the active conformation of rhodopsin. <i>Biochemistry</i> , 1998, 37, 11393-8 Kinetics of the light-induced proton translocation associated with the pH-dependent formation of	4.4 3.8 3.8	52 119 14 15 18

364	Coupled plasmon-waveguide resonance spectroscopy studies of the cytochrome b6f/plastocyanin system in supported lipid bilayer membranes. <i>Biophysical Journal</i> , 1998 , 75, 1874-85	2.9	46
363	Energetics of inclusion-induced bilayer deformations. <i>Biophysical Journal</i> , 1998 , 74, 1966-83	2.9	296
362	Dipole potentials and spontaneous curvature: membrane properties that could mediate anesthesia. 1998 , 100-101, 431-9		31
361	Effects of nonlamellar-prone lipids on the ATPase activity of SecA bound to model membranes. 1998 , 273, 21692-8		25
360	Membrane Lipids: What Membrane Physical Properties are Conserve during Physiochemically-Induced Membrane Restructuring?. 1998 , 38, 280-290		40
359	Light-dependent activation of rod transducin by pineal opsin. 1998 , 273, 26820-6		22
358	Steady-state organization of binary mixtures by active impurities. 1998 , 58, 3547-3551		16
357	Magic angle spinning NMR of the protonated retinylidene Schiff base nitrogen in rhodopsin: expression of 15N-lysine- and 13C-glycine-labeled opsin in a stable cell line. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 487-92	11.5	73
356	Phospholipid-assisted refolding of an integral membrane protein. Minimum structural features for phosphatidylethanolamine to act as a molecular chaperone. 1999 , 274, 12339-45		110
355	2H-NMR in liquid crystals and membranes. 1999 , 158, 281-298		18
354	Aqueous two-phase systems containing self-associating block copolymers. Partitioning of hydrophilic and hydrophobic biomolecules. 1999 , 839, 71-83		35
353	Evidence for the unique function of docosahexaenoic acid during the evolution of the modern hominid brain. 1999 , 34 Suppl, S39-47		215
352	Plasmon resonance spectroscopy: probing molecular interactions within membranes. 1999 , 24, 213-9		125
351	The ambivalence of vitamin E in atherogenesis. 1999 , 24, 219-23		107
350	Molecular Dynamics Simulation of Membranes and a Transmembrane Helix. 1999 , 151, 358-387		30
349	Lysophosphatidylcholine modulates catalytically important motions of the Ca-ATPase phosphorylation domain. <i>Biochemistry</i> , 1999 , 38, 4604-12	3.2	16
348	Is the protein/lipid hydrophobic matching principle relevant to membrane organization and functions?. 1999 , 458, 271-7		161
347	Chapter 2 Structure and Physical Properties of the Lipid Membrane. 1999 , 48, 23-47		11

(2001-1999)

346	Spring constants for channel-induced lipid bilayer deformations. Estimates using gramicidin channels. <i>Biophysical Journal</i> , 1999 , 76, 889-95	2.9	166
345	Phosphatidylethanolamine modulates Ca-ATPase function and dynamics. <i>Biochemistry</i> , 1999 , 38, 1356-	64,.2	33
344	Solid-State NMR Line Shapes of Uniaxially Oriented Immobile Systems. 1999 , 121, 7636-7643		45
343	Correlation between the free energy of a channel-forming voltage-gated peptide and the spontaneous curvature of bilayer lipids. <i>Biochemistry</i> , 1999 , 38, 5932-8	3.2	83
342	Phase properties of liquid-crystalline Phosphatidylcholine/Phosphatidylethanolamine bilayers revealed by fluorescent probes. 1999 , 369, 288-94		18
341	Natural copepods are superior to enriched artemia nauplii as feed for halibut larvae (Hippoglossus hippoglossus) in terms of survival, pigmentation and retinal morphology: relation to dietary essential fatty acids. 1999 , 129, 1186-94		200
340	Chapter 7 Interaction of Natural and Model Peptides with Membranes. 1999 , 48, 197-228		6
339	Ion channels as tools to monitor lipid bilayer-membrane protein interactions: gramicidin channels as molecular force transducers. 1999 , 294, 208-24		86
338	Chapter 1 Structure and mechanism of vertebrate visual pigments. 2000 , 3, 1-54		8
337	The transbilayer distribution of phospholipids in disc membranes is a dynamic equilibrium evidence for rapid flip and flop movement. 2000 , 267, 1473-83		32
336	Modulation of arachidonate and docosahexaenoate in Morone chrysops larval tissues and the effect on growth and survival. 2000 , 35, 1269-80		28
335	Modulation of glycophorin A transmembrane helix interactions by lipid bilayers: molecular dynamics calculations. 2000 , 302, 727-46		105
334	1H and (13)C NMR of multilamellar dispersions of polyunsaturated (22:6) phospholipids. <i>Biophysical Journal</i> , 2000 , 79, 885-97	2.9	40
333	Inclusion-induced bilayer deformations: effects of monolayer equilibrium curvature. <i>Biophysical Journal</i> , 2000 , 79, 2583-604	2.9	136
332	Area per lipid and acyl length distributions in fluid phosphatidylcholines determined by (2)H NMR spectroscopy. <i>Biophysical Journal</i> , 2000 , 79, 3172-92	2.9	522
331	Docosahexaenoic acid-containing phosphatidylcholine affects the binding of monoclonal antibodies to purified Kb reconstituted into liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000 , 1467, 293-306	3.8	13
330	Softening of Membrane Bilayers by Detergents Elucidated by Deuterium NMR Spectroscopy. Journal of Physical Chemistry B, 2000 , 104, 12119-12129	3.4	62
329	Effect of Unsaturated Lipid Chains on Dimensions, Molecular Order and Hydration of Membranes. Journal of Physical Chemistry B, 2001 , 105, 12378-12390	3.4	102

328	Membranotropic effects of the antibacterial agent Triclosan. 2001, 390, 128-36		147
327	Protection of photoreceptor cells in adult rats from light-induced degeneration by adaptation to bright cyclic light. <i>Experimental Eye Research</i> , 2001 , 73, 569-77	3.7	56
326	Structural properties of a highly polyunsaturated lipid bilayer from molecular dynamics simulations. <i>Biophysical Journal</i> , 2001 , 81, 204-16	2.9	121
325	Lipid-mediated interactions between intrinsic membrane proteins: dependence on protein size and lipid composition. <i>Biophysical Journal</i> , 2001 , 81, 276-84	2.9	75
324	Optical anisotropy in lipid bilayer membranes: coupled plasmon-waveguide resonance measurements of molecular orientation, polarizability, and shape. <i>Biophysical Journal</i> , 2001 , 80, 1557-6	57 ^{2.9}	155
323	The essentiality of long chain n-3 fatty acids in relation to development and function of the brain and retina. 2001 , 40, 1-94		778
322	Self-association of model transmembrane alpha-helices is modulated by lipid structure. <i>Biochemistry</i> , 2001 , 40, 12379-86	3.2	74
321	Effects of phospholipid headgroup and phase on the activity of diacylglycerol kinase of Escherichia coli. <i>Biochemistry</i> , 2001 , 40, 14891-7	3.2	25
320	Influence of highly polyunsaturated lipid acyl chains of biomembranes on the NMR order parameters. 2001 , 123, 7381-7		32
319	Regulation of CTP: phosphocholine cytidylyltransferase activity by the physical properties of lipid membranes: an important role for stored curvature strain energy. <i>Biochemistry</i> , 2001 , 40, 10522-31	3.2	115
318	Can we identify the forces that drive the folding of integral membrane proteins?. 2001 , 29, 408-13		13
317	Effects of phytanic acid on the vitamin E status, lipid composition and physical properties of retinal cell membranes: implications for adult Refsum disease. 2001 , 101, 697-705		6
316	Effects of phytanic acid on the vitamin E status, lipid composition and physical properties of retinal cell membranes: implications for adult Refsum disease. 2001 , 101, 697		4
315	The role of retinal in the long-range protein-lipid interactions in bacteriorhodopsin-phosphatidylcholine vesicles. <i>European Biophysics Journal</i> , 2001 , 29, 628-40	1.9	5
314	The role of docosahexaenoic acid in retinal function. 2001 , 36, 859-71		116
313	Incorporation, distribution, and metabolism of polyunsaturated fatty acids in the pineal gland of rainbow trout (Oncorhynchus mykiss) in vitro. 2001 , 31, 127-37		8
312	Biosynthesis of docosahexaenoate-containing glycerolipid molecular species in the retina. 2001 , 16, 205-14; discussion 215-21		13
311	Optimization of receptor-G protein coupling by bilayer lipid composition II: formation of metarhodopsin II-transducin complex. 2001 , 276, 42807-11		79

(2002-2001)

310	Optimization of receptor-G protein coupling by bilayer lipid composition I: kinetics of rhodopsin-transducin binding. 2001 , 276, 42801-6		86
309	Composite membrane deformation on the mesoscopic length scale. 2001 , 64, 010901		33
308	Electrostatic interactions in a neutral model phospholipid bilayer by molecular dynamics simulations. 2002 , 116, 3052-3057		80
307	Interaction of A2E with model membranes. Implications to the pathogenesis of age-related macular degeneration. 2002 , 120, 147-57		79
306	Magic angle spinning nuclear magnetic resonance of isotopically labeled rhodopsin. 2002 , 343, 212-22		25
305	Electrostatic properties of membrane lipids coupled to metarhodopsin II formation in visual transduction. 2002 , 124, 7690-701		47
304	Molecular dynamics study of monolayers consisting of polyunsaturated diacylglycerolipids. 2002 , 4627, 129		
303	Regulation of lipid composition in Acholeplasma laidlawii and Escherichia coli membranes: NMR studies of lipid lateral diffusion at different growth temperatures. <i>Biochemistry</i> , 2002 , 41, 11512-5	3.2	48
302	Evidence that helix 8 of rhodopsin acts as a membrane-dependent conformational switch. <i>Biochemistry</i> , 2002 , 41, 8298-309	3.2	89
301	Structure of docosahexaenoic acid-containing phospholipid bilayers as studied by (2)H NMR and molecular dynamics simulations. 2002 , 124, 298-309		130
300	Conformational energetics of rhodopsin modulated by nonlamellar-forming lipids. <i>Biochemistry</i> , 2002 , 41, 6354-68	3.2	153
299	Elastic deformation of membrane bilayers probed by deuterium NMR relaxation. 2002, 124, 8471-84		87
298	Molecular organization of cholesterol in polyunsaturated membranes: microdomain formation. <i>Biophysical Journal</i> , 2002 , 82, 285-98	2.9	132
297	Hydrophobic Matching Mechanism Investigated by Molecular Dynamics Simulations. <i>Langmuir</i> , 2002 , 18, 1340-1351	4	79
296	Thermal behavior of liposomes containing PCs with long and very long chain PUFAs isolated from retinal rod outer segment membranes. <i>Journal of Lipid Research</i> , 2002 , 43, 1440-9	6.3	8
295	Anesthetics and the brain. 2002 , 20, 265-92		27
294	Flow-mediated on-surface reconstitution of G-protein coupled receptors for applications in surface plasmon resonance biosensors. 2002 , 300, 132-8		94
293	Retinal sensitivity loss in third-generation n-3 PUFA-deficient rats. 2002 , 37, 759-65		46

292	Optimal potentials for predicting inter-helical packing in transmembrane proteins. 2002, 49, 342-9	21
291	Towards an understanding of complex biological membranes from atomistic molecular dynamics simulations. 2002 , 22, 151-73	76
2 90	Enhancement of G protein-coupled signaling by DHA phospholipids. 2003 , 38, 437-43	97
289	The structure of DHA in phospholipid membranes. 2003 , 38, 445-52	70
288	Interpretation of small angle X-ray measurements guided by molecular dynamics simulations of lipid bilayers. <i>Chemistry and Physics of Lipids</i> , 2003 , 126, 211-23	50
287	Docosahexaenoic acid: membrane properties of a unique fatty acid. <i>Chemistry and Physics of Lipids</i> , 2003 , 126, 1-27	599
286	The Lipids. 2003 , 181-257	88
285	The lipid bilayer concept: Experimental realization and current applications. 2003, 7, 1-73	10
284	Molecular dynamics simulation of dark-adapted rhodopsin in an explicit membrane bilayer: coupling between local retinal and larger scale conformational change. 2003 , 333, 493-514	88
283	The trials and tribulations of membrane protein folding in vitro. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003 , 1610, 51-6	46
282	Lipid-protein interactions in biological membranes: a structural perspective. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003 , 1612, 1-40	664
281	Biotechnological approaches to modify rapeseed oil composition for applications in aquaculture. 2003 , 165, 349-357	33
280	DHA-rich phospholipids optimize G-Protein-coupled signaling. 2003 , 143, S80-6	52
279	Visual development: Neural basis and new assessment methods. 2003 , 143, S87-95	25
278	Synaptic lipid signaling: significance of polyunsaturated fatty acids and platelet-activating factor. <i>Journal of Lipid Research</i> , 2003 , 44, 2221-33	197
277	Hydrophobic coupling of lipid bilayer energetics to channel function. 2003 , 121, 477-93	77
276	Molecular dynamics simulations of ionic concentration gradients across model bilayers. 2003 , 118, 1957-1969	9
275	Elastic properties of bilayer lipid membranes and pore formation. 2003 , 173-204	5

274 Retinal docosahexaenoic acid, age-related diseases, and glaucoma. **2003**, 205-222

273	Evolutionarily conserved ELOVL4 gene expression in the vertebrate retina. 2003 , 44, 2841-50		35
272	Evidence for the unique function of DHA during the evolution of the modern hominid brain. 2004 , 11, 30-37		
271	Membrane inclusions as coupled harmonic oscillators: effects due to anisotropic membrane slope relaxation. 2004 , 120, 7183-93		11
270	Identification of core amino acids stabilizing rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 7246-51	11.5	130
269	Elastic coupling of integral membrane protein stability to lipid bilayer forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 4065-70	11.5	196
268	Effect of the Pore Region of a Transmembrane Ion Channel on the Physical Properties of a Simple Membrane. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2608-2613	3.4	20
267	Does perinatal omega-3 polyunsaturated fatty acid deficiency increase appetite signaling?. 2004 , 12, 1886-94		17
266	Jumping to rafts: gatekeeper role of bilayer elasticity. 2004 , 29, 325-30		26
265	Lanosterol and cholesterol-induced variations in bilayer elasticity probed by 2H NMR relaxation. <i>Langmuir</i> , 2004 , 20, 1043-6	4	37
264	Perturbation of the hydrophobic core of lipid bilayers by the human antimicrobial peptide LL-37. <i>Biochemistry</i> , 2004 , 43, 8459-69	3.2	226
263	Acid-base equilibria in rhodopsin: dependence of the protonation state of glu134 on its environment. <i>Biochemistry</i> , 2004 , 43, 6858-64	3.2	24
262	How lipids affect the activities of integral membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1666, 62-87	3.8	907
261	Nonbilayer lipids affect peripheral and integral membrane proteins via changes in the lateral pressure profile. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1666, 275-88	3.8	318
260	The Binary Mixing Behavior of Phospholipids in a Bilayer: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2454-2463	3.4	104
259	Structure and fluctuations of charged phosphatidylserine bilayers in the absence of salt. <i>Biophysical Journal</i> , 2004 , 86, 1574-86	2.9	235
258	Visual maturation of term infants fed long-chain polyunsaturated fatty acid-supplemented or control formula for 12 mo. 2005 , 81, 871-9		130
257	Duration of long-chain polyunsaturated fatty acids availability in the diet and visual acuity. 2005 , 81, 197-203		58

256	The role of omega-3 long-chain polyunsaturated fatty acids in health and disease of the retina. 2005 , 24, 87-138		570
255	Properties of docosahexaenoic-acid-containing lipids and their influence on the function of rhodopsin. <i>Current Opinion in Structural Biology</i> , 2005 , 15, 416-22	8.1	90
254	Docosahexaenoic acid affects cell signaling by altering lipid rafts. 2005 , 45, 559-79		198
253	Probing specific lipid-protein interaction by saturation transfer difference NMR spectroscopy. 2005 , 127, 13110-1		53
252	Involvement of nonlamellar-prone lipids in the stability increase of human cytochrome P450 1A2 in reconstituted membranes. <i>Biochemistry</i> , 2005 , 44, 9188-96	3.2	19
251	Environmental Effects on Glycophorin A Folding and Structure Examined through Molecular Simulations. 2005 , 1, 375-88		3
250	Phosphatidylethanolamine enhances rhodopsin photoactivation and transducin binding in a solid supported lipid bilayer as determined using plasmon-waveguide resonance spectroscopy. <i>Biophysical Journal</i> , 2005 , 88, 198-210	2.9	91
249	The transmembrane domain of the acetylcholine receptor: insights from simulations on synthetic peptide models. <i>Biophysical Journal</i> , 2005 , 88, 959-70	2.9	21
248	Effect of packing density on rhodopsin stability and function in polyunsaturated membranes. <i>Biophysical Journal</i> , 2005 , 89, 1833-40	2.9	31
247	Molecular and Cellular Regulation of Pineal Organ Responses. 2006 , 25, 243-306		17
246	The evidence for efficacy of omega-3 fatty acids in preventing or slowing the progression of retinitis pigmentosa: a systematic review. 2006 , 41, 481-90		22
245	Molecular simulation study of structural and dynamic properties of mixed DPPC/DPPE bilayers. <i>Biophysical Journal</i> , 2006 , 90, 3951-65	2.9	134
244	Curvature and hydrophobic forces drive oligomerization and modulate activity of rhodopsin in membranes. <i>Biophysical Journal</i> , 2006 , 91, 4464-77	2.9	229
243	Introduction to the membrane protein reviews: the interplay of structure, dynamics, and environment in membrane protein function. 2006 , 75, 707-12		87
242	Contribution of omega-3 fatty acids to the thermodynamics of membrane protein solvation. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8907-9	3.4	37
241	Conformational states and dynamics of rhodopsin in micelles and bilayers. <i>Biochemistry</i> , 2006 , 45, 5538	-5 <u>0</u>	70
240	The effect of binding of spider-derived antimicrobial peptides, oxyopinins, on lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 1475-82	3.8	22
239	Efficacy of omega-3 fatty acids in preventing age-related macular degeneration: a systematic review. 2006 , 113, 1165-72; quiz 1172-3, 1178		53

238	Polyunsaturated fatty acids, membrane organization, T cells, and antigen presentation. 2006, 84, 1277-89	141
237	Physical coupling between lipids and proteins: a paradigm for cellular control. 2006 , 6, 112-132	26
236	Predisposition of the dark state of rhodopsin to functional changes in structure. 2006 , 65, 970-83	37
235	How a small change in retinal leads to G-protein activation: initial events suggested by molecular dynamics calculations. 2007 , 66, 559-74	20
234	The physical chemistry of biological membranes. 2006 , 2, 564-7	77
233	The biological significance of lipid-protein interactions. 2006 , 18, S1281-91	22
232	Manipulating lipid bilayer material properties using biologically active amphipathic molecules. 2006 , 18, S1235-S1255	29
231	A role for direct interactions in the modulation of rhodopsin by omega-3 polyunsaturated lipids. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4888-93	236
230	Acyl chain-dependent effect of lysophosphatidylcholine on human neutrophils. 2007, 82, 1501-9	68
229	Evidence for the effect of omega-3 fatty acids on progression of age-related macular degeneration: a systematic review. 2007 , 27, 216-21	23
228	Role of sterol type on lateral pressure profiles of lipid membranes affecting membrane protein functionality: Comparison between cholesterol, desmosterol, 7-dehydrocholesterol and ketosterol. 2007 , 159, 311-23	107
227	Dynamic structure of retinylidene ligand of rhodopsin probed by molecular simulations. 2007 , 372, 906-917	38
226	Polyunsaturation in lipid membranes: dynamic properties and lateral pressure profiles. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 3139-50	163
225	Membrane lipid polymorphism: relationship to bilayer properties and protein function. <i>Methods in Molecular Biology</i> , 2007 , 400, 15-26	28
224	Handbook of Nutrition and Ophthalmology. 2007,	1
223	Variation in fatty acid composition of Artemia salina nauplii enriched with microalgae and baker@ yeast for use in larviculture. 2007 , 55, 4043-51	38
222	Curcumin is a modulator of bilayer material properties. <i>Biochemistry</i> , 2007 , 46, 10384-91 3.2	112
221	Interaction of an amphipathic peptide with phosphatidycholine/phosphatidylethanolamine mixed membranes. <i>Biophysical Journal</i> , 2007 , 93, 3900-6	21

220	Domain formation in model membranes studied by pulsed-field gradient-NMR: the role of lipid polyunsaturation. <i>Biophysical Journal</i> , 2007 , 93, 3182-90	2.9	64
219	Bilayer thickness and membrane protein function: an energetic perspective. 2007 , 36, 107-30		621
218	Methods in Membrane Lipids. Methods in Molecular Biology, 2007,	1.4	16
217	Acyl chain conformations in phospholipid bilayers: a comparative study of docosahexaenoic acid and saturated fatty acids. <i>Chemistry and Physics of Lipids</i> , 2008 , 153, 76-80	3.7	64
216	Polyunsaturated fatty acids and membrane organization: elucidating mechanisms to balance immunotherapy and susceptibility to infection. <i>Chemistry and Physics of Lipids</i> , 2008 , 153, 24-33	3.7	52
215	Signal transducing membrane complexes of photoreceptor outer segments. 2008 , 48, 2052-61		96
214	Regulation of membrane proteins by dietary lipids: effects of cholesterol and docosahexaenoic acid acyl chain-containing phospholipids on rhodopsin stability and function. <i>Biophysical Journal</i> , 2008 , 95, 1206-16	2.9	36
213	Molecular simulations of lipid-mediated protein-protein interactions. <i>Biophysical Journal</i> , 2008 , 95, 185	51 <u>2</u> 655	136
212	Lipid-rhodopsin hydrophobic mismatch alters rhodopsin helical content. 2008 , 130, 12465-71		64
211	Rapid incorporation of functional rhodopsin into nanoscale apolipoprotein bound bilayer (NABB) particles. 2008 , 377, 1067-81		101
211		2.9	101
	particles. 2008 , 377, 1067-81	2.9	
210	particles. 2008, 377, 1067-81 Membrane Structure - I. <i>Biophysical Journal</i> , 2008, 94, 387-399 Reconstitution of rhodopsin into polymerizable planar supported lipid bilayers: influence of dienoyl	2.9	1
210 209	Membrane Structure - I. <i>Biophysical Journal</i> , 2008 , 94, 387-399 Reconstitution of rhodopsin into polymerizable planar supported lipid bilayers: influence of dienoyl monomer structure on photoactivation. <i>Langmuir</i> , 2008 , 24, 11067-75	4	1 22
210 209 208	Membrane Structure - I. <i>Biophysical Journal</i> , 2008 , 94, 387-399 Reconstitution of rhodopsin into polymerizable planar supported lipid bilayers: influence of dienoyl monomer structure on photoactivation. <i>Langmuir</i> , 2008 , 24, 11067-75 Interacting targets of the farnesyl of transducin gamma-subunit. <i>Biochemistry</i> , 2008 , 47, 8424-33	4	1 22 6
210 209 208 207	Membrane Structure - I. <i>Biophysical Journal</i> , 2008 , 94, 387-399 Reconstitution of rhodopsin into polymerizable planar supported lipid bilayers: influence of dienoyl monomer structure on photoactivation. <i>Langmuir</i> , 2008 , 24, 11067-75 Interacting targets of the farnesyl of transducin gamma-subunit. <i>Biochemistry</i> , 2008 , 47, 8424-33 Chapter 5 Implicit Modeling of Membranes. 2008 , 131-157 Why is intelligence correlated with semen quality?: Biochemical pathways common to sperm and	4	1 22 6
210 209 208 207 206	Membrane Structure - I. <i>Biophysical Journal</i> , 2008 , 94, 387-399 Reconstitution of rhodopsin into polymerizable planar supported lipid bilayers: influence of dienoyl monomer structure on photoactivation. <i>Langmuir</i> , 2008 , 24, 11067-75 Interacting targets of the farnesyl of transducin gamma-subunit. <i>Biochemistry</i> , 2008 , 47, 8424-33 Chapter 5 Implicit Modeling of Membranes. 2008 , 131-157 Why is intelligence correlated with semen quality?: Biochemical pathways common to sperm and neuron function and their vulnerability to pleiotropic mutations. 2009 , 2, 385-7	3.2	1 22 6 13 8

202	Stability of asymmetric lipid bilayers assessed by molecular dynamics simulations. 2009 , 131, 15194-202		56
201	Role of helix 8 in G protein-coupled receptors based on structure-function studies on the type 1 angiotensin receptor. 2009 , 302, 118-27		47
200	Amphipath-induced nanoscale changes in outer hair cell plasma membrane curvature. <i>Biophysical Journal</i> , 2009 , 96, 510-20	2.9	22
199	Membranes from Polymerizable Lipids. <i>Advances in Polymer Science</i> , 2009 , 1-42	1.3	12
198	Phospholipids are needed for the proper formation, stability, and function of the photoactivated rhodopsin-transducin complex. <i>Biochemistry</i> , 2009 , 48, 5159-70	3.2	34
197	3D pressure field in lipid membranes and membrane-protein complexes. 2009 , 102, 078101		156
196	[Epidemiology of age related macular degeneration]. 2009 , 32, 440-51		15
195	Complexes between photoactivated rhodopsin and transducin: progress and questions. 2010 , 428, 1-10		43
194	Protein folding in membranes. Cellular and Molecular Life Sciences, 2010, 67, 1779-98	10.3	59
193	Chemical shift tensor - the heart of NMR: Insights into biological aspects of proteins. 2010 , 57, 181-228		136
192	Structure and function of G protein-coupled receptors using NMR spectroscopy. 2010 , 57, 159-80		32
191	Fatty acid profiles of spiny lobster (Panulirus homarus) phyllosoma fed enriched Artemia. 2010 , 41, e39.	3	4
190	Retinal very long-chain PUFAs: new insights from studies on ELOVL4 protein. <i>Journal of Lipid Research</i> , 2010 , 51, 1624-42	6.3	110
189	Loss of lysophosphatidylcholine acyltransferase 1 leads to photoreceptor degeneration in rd11 mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15523-	8 ^{11.5}	49
188	Contribution of membrane elastic energy to rhodopsin function. <i>Biophysical Journal</i> , 2010 , 99, 817-24	2.9	92
187	Conformational exchange in a membrane transport protein is altered in protein crystals. <i>Biophysical Journal</i> , 2010 , 99, 1604-10	2.9	40
186	Cholesterol in bilayers with PUFA chains: doping with DMPC or POPC results in sterol reorientation and membrane-domain formation. <i>Biochemistry</i> , 2010 , 49, 7485-93	3.2	90
185	Sequential rearrangement of interhelical networks upon rhodopsin activation in membranes: the Meta II(a) conformational substate. 2010 , 132, 4815-21		45

184	Light activation of rhodopsin: insights from molecular dynamics simulations guided by solid-state NMR distance restraints. 2010 , 396, 510-27		50
183	Retinal dynamics during light activation of rhodopsin revealed by solid-state NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 177-93	3.8	31
182	Membrane simulations mimicking acidic pH reveal increased thickness and negative curvature in a bilayer consisting of lysophosphatidylcholines and free fatty acids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 938-46	3.8	40
181	Response of GWALP transmembrane peptides to changes in the tryptophan anchor positions. <i>Biochemistry</i> , 2011 , 50, 7522-35	3.2	17
180	Solid-state IH NMR shows equivalence of dehydration and osmotic pressures in lipid membrane deformation. <i>Biophysical Journal</i> , 2011 , 100, 98-107	2.9	35
179	Protein shape change has a major effect on the gating energy of a mechanosensitive channel. <i>Biophysical Journal</i> , 2011 , 100, 1651-9	2.9	45
178	Quantitative modeling of membrane deformations by multihelical membrane proteins: application to G-protein coupled receptors. <i>Biophysical Journal</i> , 2011 , 101, 2092-101	2.9	76
177	Lipids. 2011 , 47-81		42
176	Interleaflet interaction and asymmetry in phase separated lipid bilayers: molecular dynamics simulations. 2011 , 133, 6563-77		141
175	An NMR database for simulations of membrane dynamics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 818-39	3.8	77
174	Recent progress in the study of G protein-coupled receptors with molecular dynamics computer simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 1868-78	3.8	67
173	Regulation of Protein Function by Membrane Elastic Properties. 2011 , 187-203		
172	Role of membrane integrity on G protein-coupled receptors: Rhodopsin stability and function. 2011 , 50, 267-77		52
171	Mutual adaptation of a membrane protein and its lipid bilayer during conformational changes. 2011 , 2, 304		89
170	Retina and omega-3. 2011 , 2011, 748361		42
169	Raman Spectroscopic Imaging of Cholesterol and Docosahexaenoic Acid Distribution in the Retinal Rod Outer Segment. 2011 , 64, 611-616		12
168	How to Understand Lipid P rotein Interactions in Biological Membranes. 2011 , 273-313		1
167	Retinal dynamics underlie its switch from inverse agonist to agonist during rhodopsin activation. 2011 , 18, 392-4		64

166	Nutritional influences on visual development and function. 2011 , 30, 188-203		51
165	Ground-state properties of the retinal molecule: from quantum mechanical to classical mechanical computations of retinal proteins. 2011 , 130, 1169-1183		12
164	Unraveling lipid/protein interaction in model lipid bilayers by Atomic Force Microscopy. 2011 , 24, 387-96	5	33
163	The molecular basis of mechanisms underlying polarization vision. 2011 , 366, 627-37		59
162	Solid-state 2H NMR relaxation illuminates functional dynamics of retinal cofactor in membrane activation of rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8263-8	11.5	47
161	Low aqueous solubility of 11-cis-retinal limits the rate of pigment formation and dark adaptation in salamander rods. 2012 , 139, 493-505		17
160	On-chip stochastic resonance of ion channel systems with variable internal noise. 2012 , 11, 169-75		4
159	The Membrane as a Transporter, Ion Channels and Membrane Pumps. 2012 , 51-74		
158	Lipid Bilayer-Membrane Protein Coupling. 2012 , 75-125		
157	The role of docosahexaenoic and the marine food web as determinants of evolution and hominid brain development: the challenge for human sustainability. 2012 , 21, 17-39		31
156	Modulation of the interaction between neurotensin receptor NTS1 and Gq protein by lipid. 2012 , 417, 95-111		96
155	Artificial membrane-like environments for in vitro studies of purified G-protein coupled receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 225-33	3.8	65
154	Molecular simulations and solid-state NMR investigate dynamical structure in rhodopsin activation. Biochimica Et Biophysica Acta - Biomembranes, 2012 , 1818, 241-51	3.8	26
153	The role of the lipid matrix for structure and function of the GPCR rhodopsin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 234-40	3.8	87
152	Hydrogen bond dynamics in membrane protein function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 942-50	3.8	54
151	Curvature forces in membrane lipid-protein interactions. <i>Biochemistry</i> , 2012 , 51, 9782-95	3.2	112
150	9.12 Interactions of the Cell Membrane with Integral Proteins. 2012 , 229-242		2
149	UV-visible and infrared methods for investigating lipid-rhodopsin membrane interactions. <i>Methods in Molecular Biology</i> , 2012 , 914, 127-53	1.4	9

148	In silico design of robust bolalipid membranes. 2012 , 13, 196-205		34
147	Ion pore formation in lipid bilayers and related energetic considerations. 2012 , 19, 1619-34		6
146	Quantifying the differential effects of DHA and DPA on the early events in visual signal transduction. <i>Chemistry and Physics of Lipids</i> , 2012 , 165, 393-400	3.7	23
145	Membrane Biophysics. 2013 ,		15
144	Assessing smectic liquid-crystal continuum models for elastic bilayer deformations. <i>Chemistry and Physics of Lipids</i> , 2013 , 169, 19-26	3.7	16
143	Photoreceptor inner and outer segments. 2013 , 72, 231-65		15
142	Reconstitution of membrane proteins into model membranes: seeking better ways to retain protein activities. 2013 , 14, 1589-607		66
141	Rhodopsin-lipid interactions studied by NMR. 2013 , 522, 209-27		17
140	Biophysical characterization of membrane proteins in nanodiscs. <i>Methods</i> , 2013 , 59, 287-300	4.6	73
139	The cost of living in the membrane: a case study of hydrophobic mismatch for the multi-segment protein LeuT. <i>Chemistry and Physics of Lipids</i> , 2013 , 169, 27-38	3.7	38
138	Encyclopedia of Biophysics. 2013 , 2186-2191		
137	Encyclopedia of Biophysics. 2013 , 2169-2169		
136	Solid-state IIC NMR reveals annealing of raft-like membranes containing cholesterol by the intrinsically disordered protein ⊞ynuclein. 2013 , 425, 2973-87		46
135	Encyclopedia of Biophysics. 2013 , 2178-2185		4
134	Encyclopedia of Biophysics. 2013 , 2264-2273		
133	Single tryptophan and tyrosine comparisons in the N-terminal and C-terminal interface regions of transmembrane GWALP peptides. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13786-94	3.4	10
132	Triton X-100 inhibits L-type voltage-operated calcium channels. 2013 , 91, 316-24		7
131	Recent Progress in Advanced Nanobiological Materials for Energy and Environmental Applications. 2013 , 6, 5821-5856		12

130	Phosphoinositides alter lipid bilayer properties. 2013 , 141, 673-90		18
129	Is the fluid mosaic (and the accompanying raft hypothesis) a suitable model to describe fundamental features of biological membranes? What may be missing?. 2013 , 4, 457		44
128	Oleoyl-lysophosphatidylcholine limits endothelial nitric oxide bioavailability by induction of reactive oxygen species. <i>PLoS ONE</i> , 2014 , 9, e113443	3.7	12
127	Relationship between the reconstituted vesicle size and the transmembrane protein-to-lipid ratio. 2014 , 460, 510-515		
126	Model cell membranes: discerning lipid and protein contributions in shaping the cell. 2014 , 205, 207-20		46
125	G Protein-Coupled Receptors - Modeling and Simulation. <i>Advances in Experimental Medicine and Biology</i> , 2014 ,	3.6	7
124	Solid-state NMR spectroscopy to study protein-lipid interactions. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1841, 1146-60	5	40
123	Conformational interchange of a carbohydrate by mechanical compression at the air-water interface. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10286-94	3.6	12
122	Not just an oil slick: how the energetics of protein-membrane interactions impacts the function and organization of transmembrane proteins. <i>Biophysical Journal</i> , 2014 , 106, 2305-16	2.9	46
121	Molecular dynamics simulations of the adenosine A2a receptor in POPC and POPE lipid bilayers: effects of membrane on protein behavior. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 573-	89 ^{.1}	31
120	Accelerated terahertz water dynamics under osmotic interaction of lipid bilayers and polyethylene glycol. 2015 ,		
119	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. Journal of Membrane Biology, 2015 , 248, 611-40	2.3	101
118	Retinal Conformation Changes Rhodopsin@ Dynamic Ensemble. <i>Biophysical Journal</i> , 2015 , 109, 608-17	2.9	6
117	Comparative Mutagenesis Studies of Retinal Release in Light-Activated Zebrafish Rhodopsin Using Fluorescence Spectroscopy. <i>Biochemistry</i> , 2015 , 54, 4507-18	3.2	22
116	Linking fatty acids in the diet and tissues to quality of larval southern flounder (Paralichthys lethostigma). 2015 , 467, 7-15		12
115	Rhodopsin/lipid hydrophobic matching-rhodopsin oligomerization and function. <i>Biophysical Journal</i> , 2015 , 108, 1125-32	2.9	40
114	Chloroform alters interleaflet coupling in lipid bilayers: an entropic mechanism. 2015 , 12,		9
113	Thermosensing via transmembrane protein-lipid interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 1757-64	3.8	17

112	Hocopherol Is Well Designed to Protect Polyunsaturated Phospholipids: MD Simulations. <i>Biophysical Journal</i> , 2015 , 109, 1608-18	2.9	30
111	Structure and function of G protein-coupled receptor oligomers: implications for drug discovery. 2015 , 7, 408-27		18
110	Elastic deformation and area per lipid of membranes: atomistic view from solid-state deuterium NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 246-59	3.8	37
109	Biochemical Roles of Eukaryotic Cell Surface Macromolecules. <i>Advances in Experimental Medicine and Biology</i> , 2015 ,	3.6	4
108	Membrane-Mediated Oligomerization of G Protein Coupled Receptors and Its Implications for GPCR Function. <i>Frontiers in Physiology</i> , 2016 , 7, 494	4.6	72
107	Impact of the lipid environment on the protonation dynamics of bacteriorhodopsin studied with time-resolved step-scan FTIR pectroscopy. 2016 , 5, 167-174		2
106	Structural Influences: Cholesterol, Drug, and Proton Binding to Full-Length Influenza A M2 Protein. <i>Biophysical Journal</i> , 2016 , 110, 1391-9	2.9	29
105	Cholesterol-induced suppression of membrane elastic fluctuations at the atomistic level. <i>Chemistry and Physics of Lipids</i> , 2016 , 199, 39-51	3.7	19
104	The Influence of Lipid Bilayer Physicochemical Properties on Gramicidin A Conformer Preferences. <i>Biophysical Journal</i> , 2016 , 110, 1826-1835	2.9	18
	The Linoleic-to-Linolenic Dietary Intake Ratio: The Fundamental Implications of Imbalance and		
103	Excess Looked at from Both a Functional and an Evolutionary Perspective: An Overview. 2016 , 321-348	3	
103		3.2	5
	Excess Looked at from Both a Functional and an Evolutionary Perspective: An Overview. 2016 , 321-348 A Comparison between the Photoactivation Kinetics of Human and Bovine Rhodopsins.		5
102	Excess Looked at from Both a Functional and an Evolutionary Perspective: An Overview. 2016, 321-348 A Comparison between the Photoactivation Kinetics of Human and Bovine Rhodopsins. Biochemistry, 2016, 55, 7005-7013 Probing Hydronium Ion Histidine NH Exchange Rate Constants in the M2 Channel via Indirect		
102	A Comparison between the Photoactivation Kinetics of Human and Bovine Rhodopsins. Biochemistry, 2016, 55, 7005-7013 Probing Hydronium Ion Histidine NH Exchange Rate Constants in the M2 Channel via Indirect Observation of Dipolar-Dephased N Signals in Magic-Angle-Spinning NMR. 2016, 138, 15801-15804 Alteration of interleaflet coupling due to compounds displaying rapid translocation in lipid	3.2	10
102	A Comparison between the Photoactivation Kinetics of Human and Bovine Rhodopsins. Biochemistry, 2016, 55, 7005-7013 Probing Hydronium Ion Histidine NH Exchange Rate Constants in the M2 Channel via Indirect Observation of Dipolar-Dephased N Signals in Magic-Angle-Spinning NMR. 2016, 138, 15801-15804 Alteration of interleaflet coupling due to compounds displaying rapid translocation in lipid membranes. Scientific Reports, 2016, 6, 32934 Dynamics of Hydrogel-Assisted Giant Unilamellar Vesicle Formation from Unsaturated Lipid	3.2	10
102 101 100	Excess Looked at from Both a Functional and an Evolutionary Perspective: An Overview. 2016, 321-348 A Comparison between the Photoactivation Kinetics of Human and Bovine Rhodopsins. Biochemistry, 2016, 55, 7005-7013 Probing Hydronium Ion Histidine NH Exchange Rate Constants in the M2 Channel via Indirect Observation of Dipolar-Dephased N Signals in Magic-Angle-Spinning NMR. 2016, 138, 15801-15804 Alteration of interleaflet coupling due to compounds displaying rapid translocation in lipid membranes. Scientific Reports, 2016, 6, 32934 Dynamics of Hydrogel-Assisted Giant Unilamellar Vesicle Formation from Unsaturated Lipid Systems. Langmuir, 2016, 32, 12702-12709 The Functional Activity of the Human Serotonin 5-HT1A Receptor Is Controlled by Lipid Bilayer	3.2 4.9	10 5
1021011009998	Excess Looked at from Both a Functional and an Evolutionary Perspective: An Overview. 2016, 321-348 A Comparison between the Photoactivation Kinetics of Human and Bovine Rhodopsins. Biochemistry, 2016, 55, 7005-7013 Probing Hydronium Ion Histidine NH Exchange Rate Constants in the M2 Channel via Indirect Observation of Dipolar-Dephased N Signals in Magic-Angle-Spinning NMR. 2016, 138, 15801-15804 Alteration of interleaflet coupling due to compounds displaying rapid translocation in lipid membranes. Scientific Reports, 2016, 6, 32934 Dynamics of Hydrogel-Assisted Giant Unilamellar Vesicle Formation from Unsaturated Lipid Systems. Langmuir, 2016, 32, 12702-12709 The Functional Activity of the Human Serotonin 5-HT1A Receptor Is Controlled by Lipid Bilayer Composition. Biophysical Journal, 2016, 110, 2486-2495 Clinical concentrations of chemically diverse general anesthetics minimally affect lipid bilayer properties. Proceedings of the National Academy of Sciences of the United States of America, 2017,	3.2 4.9 4 2.9	10 5 12 25

(2018-2017)

94	Allosteric modulation model of the mu opioid receptor by herkinorin, a potent not alkaloidal agonist. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 467-482	4.2	10
93	Molecular Simulations of Complex Membrane Models. 2017 , 1-18		
92	Gramicidin A Channel Formation Induces Local Lipid Redistribution I: Experiment and Simulation. <i>Biophysical Journal</i> , 2017 , 112, 1185-1197	2.9	31
91	Gramicidin A Channel Formation Induces Local Lipid Redistribution II: A 3D Continuum Elastic Model. <i>Biophysical Journal</i> , 2017 , 112, 1198-1213	2.9	15
90	Impact of temperature on sea bass, Dicentrarchus labrax, retina: Fatty acid composition, expression of rhodopsin and enzymes of lipid and melatonin metabolism. <i>Experimental Eye Research</i> , 2017 , 159, 87-97	3.7	8
89	The Biophysics of Cell Membranes. Springer Series in Biophysics, 2017,		1
88	Membrane Lipid-Protein Interactions. Springer Series in Biophysics, 2017, 61-84		1
87	Concepts and Methods of Solid-State NMR Spectroscopy Applied to Biomembranes. <i>Chemical Reviews</i> , 2017 , 117, 12087-12132	68.1	58
86	Probing Self-Assembly of G Protein-Coupled Receptor Oligomers in Membranes Using Molecular Dynamics Modeling and Experimental Approaches. 2017 , 385-414		1
85	Divergent effects of anesthetics on lipid bilayer properties and sodium channel function. <i>European Biophysics Journal</i> , 2017 , 46, 617-626	1.9	23
84	Identification of Two New Cholesterol Interaction Sites on the A Adenosine Receptor. <i>Biophysical Journal</i> , 2017 , 113, 2415-2424	2.9	49
83	Oxidation-Induced Increase In Photoreactivity of Bovine Retinal Lipid Extract. <i>Cell Biochemistry and Biophysics</i> , 2017 , 75, 443-454	3.2	5
82	Protein Sequence and Membrane Lipid Roles in the Activation Kinetics of Bovine and Human Rhodopsins. <i>Biophysical Journal</i> , 2017 , 113, 1934-1944	2.9	6
81	Methods of reconstitution to investigate membrane protein function. <i>Methods</i> , 2018 , 147, 126-141	4.6	24
80	Challenges and approaches to understand cholesterol-binding impact on membrane protein function: an NMR view. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 2137-2151	10.3	13
79	G protein-coupled receptor-receptor interactions give integrative dynamics to intercellular communication. <i>Reviews in the Neurosciences</i> , 2018 , 29, 703-726	4.7	25
78	Molecular Machines of the Cell. 2018 , 183-235		
77	Effect of dietary docosahexaenoic acid on rhodopsin content and packing in photoreceptor cell membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 1403-1413	3.8	15

76	Impact of the lipid bilayer on energy transfer kinetics in the photosynthetic protein LH2. <i>Chemical Science</i> , 2018 , 9, 3095-3104	9.4	15
75	Lipids Alter Rhodopsin Function via Ligand-like and Solvent-like Interactions. <i>Biophysical Journal</i> , 2018 , 114, 355-367	2.9	31
74	Lipid-induced dynamics of photoreceptors monitored by time-resolved step-scan FTIR spectroscopy. <i>Chemical Physics</i> , 2018 , 512, 53-61	2.3	4
73	Nutritional effect of Artemia nauplii enriched with Tetraselmis suecica and Chaetoceros calcitrans microalgae on growth and survival on the river prawn Macrobrachium americanum larvae. <i>Aquaculture International</i> , 2018 , 26, 1001-1015	2.6	7
72	Structural insights into positive and negative allosteric regulation of a G protein-coupled receptor through protein-lipid interactions. <i>Scientific Reports</i> , 2018 , 8, 4456	4.9	25
71	The effect of dietary DHA and taurine on rotifer capture success, growth, survival and vision in the larvae of Atlantic bluefin tuna (Thunnus thynnus). <i>Aquaculture</i> , 2018 , 482, 137-145	4.4	18
70	Tuning biomimetic membrane barrier properties by hydrocarbon, cholesterol and polymeric additives. <i>Bioinspiration and Biomimetics</i> , 2017 , 13, 016005	2.6	7
69	Exploring Molecular-Biomembrane Interactions with Surface Plasmon Resonance and Dual Polarization Interferometry Technology: Expanding the Spotlight onto Biomembrane Structure. <i>Chemical Reviews</i> , 2018 , 118, 5392-5487	68.1	40
68	Reconstitution and functional studies of hamster P-glycoprotein in giant liposomes. <i>PLoS ONE</i> , 2018 , 13, e0199279	3.7	7
67	Flexible lipid nanomaterials studied by NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18422-18457	3.6	9
66	Rhodopsin Oligomerization and Aggregation. <i>Journal of Membrane Biology</i> , 2019 , 252, 413-423	2.3	14
65	Local Enrichment of Unsaturated Chains around the A Adenosine Receptor. <i>Biochemistry</i> , 2019 , 58, 4096	5 ₃ 42105	3
64	Quantum Mechanical and Molecular Mechanics Modeling of Membrane-Embedded Rhodopsins. Journal of Membrane Biology, 2019 , 252, 425-449	2.3	5
63	Protein Lipidation. <i>Methods in Molecular Biology</i> , 2019 ,	1.4	O
62	Reconstitution of the Rhodopsin-Transducin Complex into Lipid Nanodiscs. <i>Methods in Molecular Biology</i> , 2019 , 2009, 317-324	1.4	2
61	Introduction: Biomembrane Structure, Dynamics, and Reactions. <i>Chemical Reviews</i> , 2019 , 119, 5535-553	6 68.1	3
60	Oxidative Stress in Retinal Degeneration Promoted by Constant LED Light. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 139	6.1	19
59	Multiscale Simulations of Biological Membranes: The Challenge To Understand Biological Phenomena in a Living Substance. <i>Chemical Reviews</i> , 2019 , 119, 5607-5774	68.1	130

(2006-2019)

58	Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. <i>Journal of Lipid Research</i> , 2019 , 60, 1880-1891	6.3	7
57	Structural and Functional Consequences of the Weak Binding of Chlorin e6 to Bovine Rhodopsin. <i>Photochemistry and Photobiology</i> , 2019 , 95, 787-802	3.6	4
56	Cholesterol Modulation of Protein Function. Advances in Experimental Medicine and Biology, 2019,	3.6	1
55	Cholesterol Effects on the Physical Properties of Lipid Membranes Viewed by Solid-state NMR Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1115, 99-133	3.6	8
54	A Critical Analysis of Molecular Mechanisms Underlying Membrane Cholesterol Sensitivity of GPCRs. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1115, 21-52	3.6	27
53	Membrane curvature affects the stability and folding kinetics of bacteriorhodopsin. <i>Process Biochemistry</i> , 2019 , 76, 111-117	4.8	3
52	Regulating Lipid Composition Rationalizes Acyl Tail Saturation Homeostasis in Ectotherms. <i>Biophysical Journal</i> , 2020 , 119, 892-899	2.9	8
51	Graphs of dynamic H-bond networks: from model proteins to protein complexes in cell signaling. <i>Current Opinion in Structural Biology</i> , 2020 , 64, 79-87	8.1	10
50	Bioavailability and spatial distribution of fatty acids in the rat retina after dietary omega-3 supplementation. <i>Journal of Lipid Research</i> , 2020 , 61, 1733-1746	6.3	3
49	Differential adaptations in rod outer segment disc membranes in different models of congenital stationary night blindness. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183396	3.8	2
48	Computer simulations of protein-membrane systems. <i>Progress in Molecular Biology and Translational Science</i> , 2020 , 170, 273-403	4	15
47	Direct and indirect cholesterol effects on membrane proteins with special focus on potassium channels. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020 , 1865, 158706	5	20
46	Activation of the G-Protein-Coupled Receptor Rhodopsin by Water. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2288-2295	16.4	7
45	Activation of the G-Protein-Coupled Receptor Rhodopsin by Water. <i>Angewandte Chemie</i> , 2021 , 133, 23	18 <u>-</u> 832	52
44	Membrane Curvature Revisited-the Archetype of Rhodopsin Studied by Time-Resolved Electronic Spectroscopy. <i>Biophysical Journal</i> , 2021 , 120, 440-452	2.9	4
43	Curvature Energetics Determined by Alchemical Simulation on Four Topologically Distinct Lipid Phases. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 1815-1824	3.4	O
42	Altered Membrane Mechanics Provides a Receptor-Independent Pathway for Serotonin Action. <i>Chemistry - A European Journal</i> , 2021 , 27, 7533-7541	4.8	5
41	The Membrane as a System: How Lipid Structure Affects Membrane Protein Function. 2006 , 141-175		2

40	Phospholipid Main Phase Transition Assessed by Fluorescence Spectroscopy. 2004 , 257-297		2
39	Long-chain polyunsaturated fatty acids in breast milk: are they essential?. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 501, 375-83	3.6	24
38	Membrane Structure and Dynamics Studied with NMR Spectroscopy. 1996 , 175-252		21
37	The rhodopsin-arrestin-1 interaction in bicelles. <i>Methods in Molecular Biology</i> , 2015 , 1271, 77-95	1.4	2
36	X-ray scattering and solid-state deuterium nuclear magnetic resonance probes of structural fluctuations in lipid membranes. <i>Methods in Molecular Biology</i> , 2007 , 400, 341-53	1.4	8
35	Single-molecule methods for monitoring changes in bilayer elastic properties. <i>Methods in Molecular Biology</i> , 2007 , 400, 543-70	1.4	34
34	Role of lipid-mediated effects in Endrenergic receptor dimerization. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 842, 247-61	3.6	19
33	How the dynamic properties and functional mechanisms of GPCRs are modulated by their coupling to the membrane environment. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 796, 55-74	3.6	21
32	Coarse-grained molecular dynamics provides insight into the interactions of lipids and cholesterol with rhodopsin. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 796, 75-94	3.6	25
31	Chapter 2:Lateral Pressure Profiles in Lipid Membranes: Dependence on Molecular Composition. <i>RSC Biomolecular Sciences</i> , 2010 , 26-55		9
30	Phospholipids. 2006 , 399-420		1
29	Ion Pore Formation in Membranes due to Complex Interactions between Lipids and Antimicrobial Peptides or Biomolecules. <i>The Electrical Engineering Handbook</i> , 2012 , 893-934		5
28	Force transduction and lipid binding in MscL: a continuum-molecular approach. <i>PLoS ONE</i> , 2014 , 9, e113	1947	29
27	Fatty acid transport protein 1 regulates retinoid metabolism and photoreceptor development in mouse retina. <i>PLoS ONE</i> , 2017 , 12, e0180148	3.7	5
26	Molecular Dynamics Simulations of Adenosine Receptors: Advances, Applications and Trends. <i>Current Pharmaceutical Design</i> , 2019 , 25, 783-816	3.3	17
25	C-Graphs Tool with Graphical User Interface to Dissect Conserved Hydrogen-Bond Networks: Applications to Visual Rhodopsins. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 5692-5707	6.1	1
24	Mechanisms of the Modulation of Membrane Interfacial Enzyme Catalysis by Non-lamellar Forming Lipids: Comparison with the Behavior of a Fluorescent Probe in Membranes. <i>Springer Series on Fluorescence</i> , 2002 , 263-276	0.5	
23	Essential Fatty Acids and Visual Dysfunction. <i>Food Additives</i> , 2007 , 1019-1060		

The Role of Omega-3 Polyunsaturated Fatty Acids in Food Intake and Energy Homeostasis. Food 22 Additives, 2007, 837-854 The Pineal Organ of Fish. 2010, 9-33 21 References. 207-243 20 Consequences of Hydrophobic Matching on the Lateral Distribution of Lipids Around 19 Bacteriorhodopsin Reconstituted in DLPC/DSPC Mixtures. 1998, 321-331 Membrane composition influences the conformation and function of the dopamine transporter in 18 vivo. Regulating lipid composition rationalizes acyl-tail saturation homeostasis in ectotherms. 17 16 Encyclopedia of Biophysics. 2020, 1-16 Encyclopedia of Biophysics. 2020, 1-16 Essential Fatty Acids and Visual Development in Infants. 2007, 415-441 14 Detecting water-protein chemical exchange in membrane-bound proteins/peptides by solid-state 13 NMR spectroscopy. Magnetic Resonance Letters, 2021, Functional and structural characterization of membrane-binding proteins using NMR. Annual 12 1.7 Reports on NMR Spectroscopy, 2022, 47-131 Regulation of Gramicidin Channel Function Solely by Changes in Lipid Intrinsic Curvature.. Frontiers 11 4.6 in Physiology, **2022**, 13, 836789 Fatty acid composition of phospholipids and triacylglycerols in the flesh of the thick-lipped grey 10 mullet (Chelon labrosus) living in Tunisian geothermal water and seawater: A comparative study. 1.3 Grasas Y Aceites, 2022, 73, e448 Conserved hydrogen-bond motifs of membrane transporters and receptors.. Biochimica Et 3.8 9 Biophysica Acta - Biomembranes, 2022, 1864, 183896 Membranes from Polymerizable Lipids. Advances in Polymer Science, 2009, 1-42 8 1.3 Cholesterol stiffening of lipid membranes and drug interactions: Insights from neutron spin echo and deuterium NMR spectroscopy. 2022, 771-796 Phospholipid Headgroups Govern Area Per Lipid and Emergent Elastic Properties of Bilayers. 2022, \circ

Hydrogen-bond networks for proton couplings in G-Protein coupled receptors. 10,

Cholesterol Stiffening of Lipid Membranes. 2022, 255, 385-405

Physiological changes in bilayer thickness induced by cholesterol control GPCR rhodopsin function.

2022,

Screening for bilayer-active and likely cytotoxic molecules reveals bilayer-mediated regulation of cell function. 2023, 155,

Biophysics of Membrane Stiffening by Cholesterol and Phosphatidylinositol 4,5-bisphosphate (PIP2). 2023, 61-85