

Kenneth J Rothschild

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139 papers	6,830 citations	47 h-index	78 g-index
144 ext. papers	7,159 ext. citations	5.3 avg, IF	5.27 L-index

#	Paper	IF	Citations
139	Vibrational spectroscopy of bacteriorhodopsin mutants: light-driven proton transport involves protonation changes of aspartic acid residues 85, 96, and 212. <i>Biochemistry</i> , 1988 , 27, 8516-20	3.2	499
138	FTIR difference spectroscopy of bacteriorhodopsin: toward a molecular model. <i>Journal of Bioenergetics and Biomembranes</i> , 1992 , 24, 147-67	3.7	278
137	Fourier transform infrared techniques for probing membrane protein structure. <i>Annual Review of Biophysics and Biophysical Chemistry</i> , 1988 , 17, 541-70		235
136	Polarized infrared spectroscopy of oriented purple membrane. <i>Biophysical Journal</i> , 1979 , 25, 473-87	2.9	231
135	Spontaneous, pH-dependent membrane insertion of a transbilayer alpha-helix. <i>Biochemistry</i> , 1997 , 36, 15177-92	3.2	204
134	Protein dynamics in the bacteriorhodopsin photocycle: submillisecond Fourier transform infrared spectra of the L, M, and N photointermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 2388-92	11.5	168
133	A biophysical study of integral membrane protein folding. <i>Biochemistry</i> , 1997 , 36, 15156-76	3.2	163
132	Surface-induced lamellar orientation of multilayer membrane arrays. Theoretical analysis and a new method with application to purple membrane fragments. <i>Biophysical Journal</i> , 1980 , 31, 65-96	2.9	144
131	Conformational changes of bacteriorhodopsin detected by Fourier transform infrared difference spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1981 , 103, 483-9	3.4	143
130	Stabilization of the membrane protein bacteriorhodopsin to 140 °C in two-dimensional films. <i>Nature</i> , 1993 , 366, 48-50	50.4	139
129	Millisecond Fourier-transform infrared difference spectra of bacteriorhodopsin's M412 photoproduct. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 5221-5	11.5	127
128	Structural model of the phospholamban ion channel complex in phospholipid membranes. <i>Journal of Molecular Biology</i> , 1995 , 248, 824-34	6.5	118
127	Evidence for a tyrosine protonation change during the primary phototransition of bacteriorhodopsin at low temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 347-51	11.5	117
126	Infrared evidence that the Schiff base of bacteriorhodopsin is protonated: bR570 and K intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982 , 79, 4045-9	11.5	116
125	Orientation of the bacteriorhodopsin chromophore probed by polarized Fourier transform infrared difference spectroscopy. <i>Biochemistry</i> , 1986 , 25, 7793-8	3.2	101
124	Anomalous amide I infrared absorption of purple membrane. <i>Science</i> , 1979 , 204, 311-2	33.3	100
123	Detection of a water molecule in the active-site of bacteriorhodopsin: hydrogen bonding changes during the primary photoreaction. <i>Biochemistry</i> , 1994 , 33, 12757-62	3.2	99

122	Tyrosine and carboxyl protonation changes in the bacteriorhodopsin photocycle. 1. M412 and L550 intermediates. <i>Biochemistry</i> , 1987 , 26, 6696-707	3.2	98
121	Cell-free co-expression of functional membrane proteins and apolipoprotein, forming soluble nanolipoprotein particles. <i>Molecular and Cellular Proteomics</i> , 2008 , 7, 2246-53	7.6	93
120	Vibrational spectroscopy of bacteriorhodopsin mutants: I. Tyrosine-185 protonates and deprotonates during the photocycle. <i>Proteins: Structure, Function and Bioinformatics</i> , 1988 , 3, 219-29	4.2	93
119	Polarized Fourier transform infrared spectroscopy of bacteriorhodopsin. Transmembrane alpha helices are resistant to hydrogen/deuterium exchange. <i>Biophysical Journal</i> , 1990 , 58, 1539-46	2.9	92
118	Fourier transform infrared difference spectroscopy of rhodopsin mutants: light activation of rhodopsin causes hydrogen-bonding change in residue aspartic acid-83 during meta II formation. <i>Biochemistry</i> , 1993 , 32, 10277-82	3.2	86
117	Fourier transform infrared evidence for Schiff base alteration in the first step of the bacteriorhodopsin photocycle. <i>Biochemistry</i> , 1984 , 23, 6103-9	3.2	86
116	A spectroscopic study of rhodopsin alpha-helix orientation. <i>Biophysical Journal</i> , 1980 , 31, 53-64	2.9	84
115	Site-directed isotope labeling and ATR-FTIR difference spectroscopy of bacteriorhodopsin: the peptide carbonyl group of Tyr 185 is structurally active during the bR-->N transition. <i>Biochemistry</i> , 1995 , 34, 2-6	3.2	82
114	Time-resolved Fourier transform infrared spectroscopy of the bacteriorhodopsin mutant Tyr-185-->Phe: Asp-96 reprotonates during O formation; Asp-85 and Asp-212 deprotonate during O decay. <i>Photochemistry and Photobiology</i> , 1992 , 56, 1085-95	3.6	80
113	Fourier transform infrared spectroscopy and site-directed isotope labeling as a probe of local secondary structure in the transmembrane domain of phospholamban. <i>Biophysical Journal</i> , 1996 , 70, 1728-36	2.9	77
112	Substitution of membrane-embedded aspartic acids in bacteriorhodopsin causes specific changes in different steps of the photochemical cycle. <i>Biochemistry</i> , 1989 , 28, 10035-42	3.2	72
111	Nanometer molecular lithography. <i>Applied Physics Letters</i> , 1986 , 48, 676-678	3.4	70
110	Photoexcitation of rhodopsin: conformation changes in the chromophore, protein and associated lipids as determined by FTIR difference spectroscopy. <i>Photochemistry and Photobiology</i> , 1988 , 48, 497-504	3.6	66
109	Fourier transform infrared difference spectroscopy of the nicotinic acetylcholine receptor: evidence for specific protein structural changes upon desensitization. <i>Biochemistry</i> , 1993 , 32, 5448-54	3.2	65
108	His-75 in proteorhodopsin, a novel component in light-driven proton translocation by primary pumps. <i>Journal of Biological Chemistry</i> , 2009 , 284, 2836-2843	5.4	64
107	Incorporation of the nicotinic acetylcholine receptor into planar multilamellar films: characterization by fluorescence and Fourier transform infrared difference spectroscopy. <i>Biophysical Journal</i> , 1992 , 61, 983-92	2.9	60
106	Site-directed isotope labelling and FTIR spectroscopy of bacteriorhodopsin. <i>Nature Structural Biology</i> , 1994 , 1, 512-7		59
105	Conformational dynamics of amyloid beta-protein assembly probed using intrinsic fluorescence. <i>Biochemistry</i> , 2005 , 44, 13365-76	3.2	58

104	Opsin structure probed by raman spectroscopy of photoreceptor membranes. <i>Science</i> , 1976 , 191, 1176-83.3	3.3	58
103	Fourier transform infrared study of the halorhodopsin chloride pump. <i>Biochemistry</i> , 1988 , 27, 2420-4	3.2	57
102	Ultrasensitive fluorescence-based detection of nascent proteins in gels. <i>Analytical Biochemistry</i> , 2000 , 279, 218-25	3.1	56
101	Fourier transform infrared evidence for a predominantly alpha-helical structure of the membrane bound channel forming COOH-terminal peptide of colicin E1. <i>Biophysical Journal</i> , 1991 , 59, 516-22	2.9	56
100	Structural changes in the photoactive site of proteorhodopsin during the primary photoreaction. <i>Biochemistry</i> , 2004 , 43, 9075-83	3.2	55
99	Evidence for rhodopsin refolding during the decay of Meta II. <i>Biophysical Journal</i> , 1987 , 51, 345-50	2.9	52
98	Primary photochemistry of bacteriorhodopsin: comparison of Fourier transform infrared difference spectra with resonance Raman spectra. <i>Photochemistry and Photobiology</i> , 1984 , 40, 675-9	3.6	52
97	Photocleavable biotin phosphoramidite for 5S end-labeling, affinity purification and phosphorylation of synthetic oligonucleotides. <i>Nucleic Acids Research</i> , 1996 , 24, 361-6	20.1	51
96	Anti-kelch-like 12 and anti-hexokinase 1: novel autoantibodies in primary biliary cirrhosis. <i>Liver International</i> , 2015 , 35, 642-51	7.9	48
95	A high-throughput nonisotopic protein truncation test. <i>Nature Biotechnology</i> , 2003 , 21, 194-7	44.5	48
94	Vibrational spectroscopy of bacteriorhodopsin mutants: chromophore isomerization perturbs tryptophan-86. <i>Biochemistry</i> , 1989 , 28, 7052-9	3.2	47
93	Conformational changes in bacteriorhodopsin studied by infrared attenuated total reflection. <i>Biophysical Journal</i> , 1987 , 52, 629-35	2.9	47
92	Nonequilibrium linear behavior of biological systems. Existence of enzyme-mediated multidimensional inflection points. <i>Biophysical Journal</i> , 1980 , 30, 209-30	2.9	44
91	X-ray diffraction and electron microscope study of phase separation in rod outer segment photoreceptor membrane multilayers. <i>Biophysical Journal</i> , 1982 , 39, 241-51	2.9	44
90	Conformational changes detected in a sensory rhodopsin II-transducer complex. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36556-62	5.4	43
89	Cell-free N-terminal protein labeling using initiator suppressor tRNA. <i>Analytical Biochemistry</i> , 2004 , 326, 25-32	3.1	42
88	Asp76 is the Schiff base counterion and proton acceptor in the proton-translocating form of sensory rhodopsin I. <i>Biochemistry</i> , 1996 , 35, 6690-6	3.2	42
87	The Schiff base counterion of bacteriorhodopsin is protonated in sensory rhodopsin I: spectroscopic and functional characterization of the mutated proteins D76N and D76A. <i>Biochemistry</i> , 1994 , 33, 5600-6	3.2	42

86	Effect of carboxyl mutations on functional properties of bovine rhodopsin. <i>Biophysical Chemistry</i> , 1995 , 56, 79-87	3.5	42
85	Photoactivation of rhodopsin causes an increased hydrogen-deuterium exchange of buried peptide groups. <i>Biophysical Journal</i> , 1998 , 74, 192-8	2.9	41
84	Conformational changes in the photocycle of Anabaena sensory rhodopsin: absence of the Schiff base counterion protonation signal. <i>Journal of Biological Chemistry</i> , 2006 , 281, 15208-14	5.4	40
83	Photoactivation of rhodopsin involves alterations in cysteine side chains: detection of an S-H band in the Meta I-->Meta II FTIR difference spectrum. <i>Biophysical Journal</i> , 1994 , 66, 2085-91	2.9	40
82	Biomolecular/solid-state nanoheterostructures. <i>Applied Physics Letters</i> , 1990 , 56, 692-694	3.4	39
81	Vibrational spectroscopy of bacteriorhodopsin mutants: evidence for the interaction of proline-186 with the retinylidene chromophore. <i>Biochemistry</i> , 1990 , 29, 5954-60	3.2	39
80	FTIR evidence for tryptophan perturbations during the bacteriorhodopsin photocycle. <i>Journal of the American Chemical Society</i> , 1988 , 110, 7223-7224	16.4	39
79	Fourier transform Raman spectroscopy of the bacteriorhodopsin mutant Tyr-185-->Phe: formation of a stable O-like species during light adaptation and detection of its transient N-like photoproduct. <i>Biochemistry</i> , 1993 , 32, 2272-81	3.2	38
78	Fourier transform infrared spectroscopic evidence for the existence of two conformations of the bacteriorhodopsin primary photoproduct at low temperature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1985 , 808, 140-8	4.6	38
77	FTIR analysis of the SII540 intermediate of sensory rhodopsin II: Asp73 is the Schiff base proton acceptor. <i>Biochemistry</i> , 2000 , 39, 2823-30	3.2	37
76	Tyrosine structural changes detected during the photoactivation of rhodopsin. <i>Journal of Biological Chemistry</i> , 1998 , 273, 23735-9	5.4	36
75	Probing conformational changes in the nicotinic acetylcholine receptor by Fourier transform infrared difference spectroscopy. <i>Biophysical Journal</i> , 1992 , 62, 64-6	2.9	36
74	Photoactivation perturbs the membrane-embedded contacts between sensory rhodopsin II and its transducer. <i>Journal of Biological Chemistry</i> , 2005 , 280, 28365-9	5.4	35
73	Static and time-resolved absorption spectroscopy of the bacteriorhodopsin mutant Tyr-185-->Phe: evidence for an equilibrium between bR570 and an O-like species. <i>Biochemistry</i> , 1993 , 32, 2263-71	3.2	35
72	Raman spectroscopy reveals direct chromophore interactions in the Leu/Gln105 spectral tuning switch of proteorhodopsins. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11770-6	3.4	33
71	A Fourier transform infrared study of Neurospora rhodopsin: similarities with archaeal rhodopsins. <i>Photochemistry and Photobiology</i> , 2002 , 76, 341-9	3.6	33
70	Cell-free synthesis, functional refolding, and spectroscopic characterization of bacteriorhodopsin, an integral membrane protein. <i>Biochemistry</i> , 1993 , 32, 13777-81	3.2	33
69	Conformational changes in sensory rhodopsin I: similarities and differences with bacteriorhodopsin, halorhodopsin, and rhodopsin. <i>Biochemistry</i> , 1991 , 30, 5395-400	3.2	33

68	Tyrosine and carboxyl protonation changes in the bacteriorhodopsin photocycle. 2. Tyrosines-26 and -64. <i>Biochemistry</i> , 1987 , 26, 6708-17	3.2	33
67	Raman spectroscopic study of the valinomycin-KSCN complex. <i>Journal of Molecular Biology</i> , 1974 , 89, 205-22	6.5	33
66	Photocleavable peptide-DNA conjugates: synthesis and applications to DNA analysis using MALDI-MS. <i>Nucleic Acids Research</i> , 1999 , 27, 4626-31	20.1	32
65	FTIR difference spectroscopy of the bacteriorhodopsin mutant Tyr-185-->Phe: detection of a stable O-like species and characterization of its photocycle at low temperature. <i>Biochemistry</i> , 1993 , 32, 2282-90	3.2	31
64	Quantitative analysis of resonance Raman spectra of purple membrane from Halobacterium halobium: L550 intermediate. <i>Biochemistry</i> , 1983 , 22, 3460-3466	3.2	29
63	Substitution of amino acids in helix F of bacteriorhodopsin: effects on the photochemical cycle. <i>Biochemistry</i> , 1989 , 28, 10028-34	3.2	27
62	Retinal chromophore structure and Schiff base interactions in red-shifted channelrhodopsin-1 from <i>Chlamydomonas augustae</i> . <i>Biochemistry</i> , 2014 , 53, 3961-70	3.2	26
61	Protonation state of Glu142 differs in the green- and blue-absorbing variants of proteorhodopsin. <i>Biochemistry</i> , 2008 , 47, 3447-53	3.2	26
60	INFRARED STUDIES OF BACTERIORHODOPSIN. <i>Photochemistry and Photobiology</i> , 1988 , 47, 883-887	3.6	26
59	Incorporation of photoreceptor membrane into a multilamellar film. <i>Biophysical Journal</i> , 1980 , 31, 45-52	2.9	26
58	Raman spectroscopy of uncomplexed valinomycin. 2. Nonpolar and polar solution. <i>Journal of the American Chemical Society</i> , 1977 , 99, 2032-9	16.4	26
57	Near-IR resonance Raman spectroscopy of archaerhodopsin 3: effects of transmembrane potential. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 14592-601	3.4	25
56	Subpicosecond protein backbone changes detected during the green-absorbing proteorhodopsin primary photoreaction. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11824-31	3.4	25
55	Ultrasensitive measurements of microbial rhodopsin photocycles using photochromic FRET. <i>Photochemistry and Photobiology</i> , 2012 , 88, 90-7	3.6	23
54	Conformational changes in the core structure of bacteriorhodopsin. <i>Biochemistry</i> , 1998 , 37, 10279-85	3.2	23
53	tRNA-mediated protein engineering. <i>Current Opinion in Biotechnology</i> , 1999 , 10, 64-70	11.4	22
52	N-terminal labeling of proteins using initiator tRNA. <i>Methods</i> , 2005 , 36, 252-60	4.6	21
51	Site-directed isotope labeling and FTIR spectroscopy: assignment of tyrosine bands in the bR-->M difference spectrum of bacteriorhodopsin. <i>Biophysical Chemistry</i> , 1995 , 56, 63-70	3.5	21

50	Photocleavable aminotag phosphoramidites for 5S termini DNA/RNA labeling. <i>Nucleic Acids Research</i> , 1998 , 26, 3572-6	20.1	20
49	Resonance Raman Study of an Anion Channelrhodopsin: Effects of Mutations near the Retinylidene Schiff Base. <i>Biochemistry</i> , 2016 , 55, 2371-80	3.2	20
48	Photocleavable affinity tags for isolation and detection of biomolecules. <i>Methods in Enzymology</i> , 1998 , 291, 135-54	1.7	19
47	Proton transfers in a channelrhodopsin-1 studied by Fourier transform infrared (FTIR) difference spectroscopy and site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , 2015 , 290, 12719-30	5.4	18
46	Methionine changes in bacteriorhodopsin detected by FTIR and cell-free selenomethionine substitution. <i>Biophysical Journal</i> , 2003 , 84, 960-6	2.9	17
45	Bacteriorhodopsin's M412 and BR605 protein conformations are similar Significance for proton transport. <i>FEBS Letters</i> , 1987 , 223, 289-293	3.8	17
44	Threonine-89 participates in the active site of bacteriorhodopsin: evidence for a role in color regulation and Schiff base proton transfer. <i>Biochemistry</i> , 1997 , 36, 7490-7	3.2	16
43	Photochemical control of the infectivity of adenoviral vectors using a novel photocleavable biotinylation reagent. <i>Chemistry and Biology</i> , 2002 , 9, 567-73		16
42	Probing intramolecular orientations in rhodopsin and metarhodopsin II by polarized infrared difference spectroscopy. <i>Biochemistry</i> , 1999 , 38, 13200-9	3.2	16
41	Site-Directed Isotope Labeling and FT-IR Spectroscopy: The Tyr 185/Pro 186 Peptide Bond of Bacteriorhodopsin Is Perturbed during the Primary Photoreaction. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11614-11615	16.4	15
40	Raman spectroscopy of uncomplexed valinomycin. I. The solid state. <i>Journal of the American Chemical Society</i> , 1977 , 99, 2024-32	16.4	15
39	Conformational changes in the archaerhodopsin-3 proton pump: detection of conserved strongly hydrogen bonded water networks. <i>Journal of Biological Physics</i> , 2012 , 38, 153-68	1.6	14
38	Comparison of the structural changes occurring during the primary phototransition of two different channelrhodopsins from Chlamydomonas algae. <i>Biochemistry</i> , 2015 , 54, 377-88	3.2	14
37	Multiplexed VeraCode bead-based serological immunoassay for colorectal cancer. <i>Journal of Immunological Methods</i> , 2013 , 400-401, 58-69	2.5	13
36	An ELISA-based high throughput protein truncation test for inherited breast cancer. <i>Breast Cancer Research</i> , 2010 , 12, R78	8.3	13
35	Models of ionic transport in biological membranes. Raman spectroscopy as a probe of valinomycin, gramicidin A and rhodopsin conformations. <i>American Journal of Clinical Pathology</i> , 1975 , 63, 695-713	1.9	13
34	The early development and application of FTIR difference spectroscopy to membrane proteins: A personal perspective. <i>Biomedical Spectroscopy and Imaging</i> , 2016 , 5, 231-267	1.3	12
33	Similarity of bacteriorhodopsin structural changes triggered by chromophore removal and light-driven proton transport. <i>FEBS Letters</i> , 1997 , 407, 285-8	3.8	12

32	Different structural changes occur in blue- and green-proteorhodopsins during the primary photoreaction. <i>Biochemistry</i> , 2008 , 47, 11490-8	3.2	12
31	Matrix-assisted laser desorption/ionization mass spectrometry of DNA using photocleavable biotin. <i>New Biotechnology</i> , 1999 , 16, 127-33		11
30	Protein conformational changes during the bacteriorhodopsin photocycle. A Fourier transform infrared/resonance Raman study of the alkaline form of the mutant Asp-85-->Asn. <i>Journal of Biological Chemistry</i> , 1995 , 270, 29746-51	5.4	10
29	Structural Changes in an Anion Channelrhodopsin: Formation of the K and L Intermediates at 80 K. <i>Biochemistry</i> , 2017 , 56, 2197-2208	3.2	9
28	Photocleavage-based affinity purification and printing of cell-free expressed proteins: application to proteome microarrays. <i>Analytical Biochemistry</i> , 2008 , 383, 103-15	3.1	9
27	Proteome-wide drug screening using mass spectrometric imaging of bead-arrays. <i>Scientific Reports</i> , 2016 , 6, 26125	4.9	9
26	Redshifted and Near-infrared Active Analog Pigments Based upon Archaelrhodopsin-3. <i>Photochemistry and Photobiology</i> , 2019 , 95, 959-968	3.6	8
25	Fourier transform infrared studies of an active proton transport pump. <i>Methods in Enzymology</i> , 1986 , 127, 343-53	1.7	8
24	Highly Multiplexed Immunohistochemical MALDI-MS Imaging of Biomarkers in Tissues. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 977-988	3.5	8
23	Raman spectroscopy of a near infrared absorbing proteorhodopsin: Similarities to the bacteriorhodopsin O photointermediate. <i>PLoS ONE</i> , 2018 , 13, e0209506	3.7	8
22	Correlated matrix-assisted laser desorption/ionization mass spectrometry and fluorescent imaging of photocleavable peptide-coded random bead-arrays. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 49-62	2.2	7
21	Resolution extension by image summing in serial femtosecond crystallography of two-dimensional membrane-protein crystals. <i>IUCrJ</i> , 2018 , 5, 103-117	4.7	7
20	Active water in protein-protein communication within the membrane: the case of SRII-HtrII signal relay. <i>Biochemistry</i> , 2009 , 48, 811-3	3.2	6
19	Detection of threonine structural changes upon formation of the M-intermediate of bacteriorhodopsin: evidence for assignment to Thr-89. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998 , 1365, 363-72	4.6	6
18	Asp 46 can substitute Asp 96 as the Schiff base proton donor in bacteriorhodopsin. <i>Biochemistry</i> , 1995 , 34, 15599-606	3.2	6
17	Electronic Preresonance Stimulated Raman Scattering Imaging of Red-Shifted Proteorhodopsins: Toward Quantitation of the Membrane Potential. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4374-4381	6.4	5
16	A Fourier Transform Infrared Study of Neurospora Rhodopsin: Similarities with Archaeal Rhodopsins. <i>Photochemistry and Photobiology</i> , 2007 , 76, 341-349	3.6	4
15	[76] Kinetic resonance raman spectroscopy of purple membrane using rotating sample. <i>Methods in Enzymology</i> , 1982 , 88, 643-648	1.7	4

14	The crystal structure of bromide-bound ACR1 reveals a pre-activated state in the transmembrane anion tunnel. <i>ELife</i> , 2021 , 10,	8.9	4
13	Circular dichroism of oriented photoreceptor membrane film. <i>Biochemical and Biophysical Research Communications</i> , 1980 , 94, 618-24	3.4	3
12	Cell-free protein synthesis systems: biotechnological applications. <i>Biotechnology and Genetic Engineering Reviews</i> , 2006 , 22, 151-69	4.1	2
11	FTIR spectroscopy, site-directed mutagenesis, and isotope labeling: a new approach for studying membrane proteins 1992 , 1575, 109		2
10	Composite Biomolecular/Solid State Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 174, 151		2
9	Photoactivation of rhodopsin: interplay between protein and chromophore. <i>Novartis Foundation Symposium</i> , 1999 , 224, 102-18; discussion 118-23		2
8	Analog Retinal Redshifts Visible Absorption of QuasAr Transmembrane Voltage Sensors into Near-infrared. <i>Photochemistry and Photobiology</i> , 2020 , 96, 55-66	3.6	2
7	Site-directed isotope labeling of membrane proteins: A new tool for spectroscopists. <i>Techniques in Protein Chemistry</i> , 1996 , 7, 151-159		1
6	Water molecules are active during the primary photoreaction of bacteriorhodopsin 1994 , 2089, 118		1
5	Photocleavage-based affinity purification of biomarkers from serum: Application to multiplex allergy testing. <i>PLoS ONE</i> , 2018 , 13, e0191987	3.7	0
4	Optical Switching Between Long-lived States of Opsin Transmembrane Voltage Sensors. <i>Photochemistry and Photobiology</i> , 2021 , 97, 1001-1015	3.6	0
3	Ftir Spectroscopy: The Detection Of Individual Chemical Groups In Complex Biomolecules 1989 , 1057, 44		
2	Protein Truncation Test (PTT) 2004 , 1089-1094		
1	THE MOLECULAR ORGANIZATION AND FUNCTION OF BIOLOGICAL MEMBRANES: A POSSIBLE MICROSCOPIC PICTURE OF IONIC PERMEATION 1972 , 49-79		