Willem DeGrip

List of Publications by Year
in descending order

188	7,139	44069	74163
papers	citations	48 h-index	75 g-index

191	191	191	5462
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Isorhodopsin: An Undervalued Visual Pigment Analog. Colorants, 2022, 1, 256-279.	1.5	2
2	Embryonic nutritional hyperglycemia decreases cell proliferation in the zebrafish retina. Histochemistry and Cell Biology, 2022, 158, 401-409.	1.7	1
3	Optical Switching Between Longâ€lived States of Opsin Transmembrane Voltage Sensors. Photochemistry and Photobiology, 2021, 97, 1001-1015.	2.5	5
4	Analog Retinal Redshifts Visible Absorption of QuasAr Transmembrane Voltage Sensors into Nearâ€infrared. Photochemistry and Photobiology, 2020, 96, 55-66.	2.5	6
5	Membrane matters: The impact of a nanodisc-bilayer or a detergent microenvironment on the properties of two eubacterial rhodopsins. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183113.	2.6	14
6	Electronic Preresonance Stimulated Raman Scattering Imaging of Red-Shifted Proteorhodopsins: Toward Quantitation of the Membrane Potential. Journal of Physical Chemistry Letters, 2019, 10, 4374-4381.	4.6	9
7	Photoreaction Dynamics of Red-Shifting Retinal Analogues Reconstituted in Proteorhodopsin. Journal of Physical Chemistry B, 2019, 123, 4242-4250.	2.6	4
8	Functional Expression of Gloeobacter Rhodopsin in PSI-Less Synechocystis sp. PCC6803. Frontiers in Bioengineering and Biotechnology, 2019, 7, 67.	4.1	7
9	Redshifted and Nearâ€infrared Active Analog Pigments Based upon Archaerhodopsinâ€3. Photochemistry and Photobiology, 2019, 95, 959-968.	2.5	13
10	Combining retinal-based and chlorophyll-based (oxygenic) photosynthesis: Proteorhodopsin expression increases growth rate and fitness of a âˆ†PSI strain of Synechocystis sp. PCC6803. Metabolic Engineering, 2019, 52, 68-76.	7.0	14
11	Pre-resonance stimulated Raman scattering spectroscopy and imaging of membrane potential using near-infrared rhodopsins. , 2019, , .		2
12	Deletion of sll1541 in Synechocystis sp. Strain PCC 6803 Allows Formation of a Far-Red-Shifted holo -Proteorhodopsin In Vivo. Applied and Environmental Microbiology, 2018, 84, .	3.1	9
13	Insight into the chromophore of rhodopsin and its Meta-II photointermediate by ¹⁹F solid-state NMR and chemical shift tensor calculations. Physical Chemistry Chemical Physics, 2018, 20, 30174-30188.	2.8	4
14	Raman spectroscopy of a near infrared absorbing proteorhodopsin: Similarities to the bacteriorhodopsin O photointermediate. PLoS ONE, 2018, 13, e0209506.	2.5	11
15	Strong pH-Dependent Near-Infrared Fluorescence in a Microbial Rhodopsin Reconstituted with a Red-Shifting Retinal Analogue. Journal of Physical Chemistry Letters, 2018, 9, 6469-6474.	4.6	22
16	Coupled HOOP signature correlates with quantum yield of isorhodopsin and analog pigments. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 118-125.	1.0	6
17	Retinal-Based Proton Pumping in the Near Infrared. Journal of the American Chemical Society, 2017, 139, 2338-2344.	13.7	45
18	Structural Changes in an Anion Channelrhodopsin: Formation of the K and L Intermediates at 80 K. Biochemistry, 2017, 56, 2197-2208.	2.5	13

#	Article	IF	Citations
19	Functional Expression of Gloeobacter Rhodopsin in Synechocystis sp. PCC6803. Photochemistry and Photobiology, 2017, 93, 772-781.	2.5	11
20	A Quantumâ€mechanical Study of the Binding Pocket of Proteorhodopsin: Absorption and Vibrational Spectra Modulated by Analogue Chromophores. Photochemistry and Photobiology, 2017, 93, 1399-1406.	2.5	7
21	IR, Biological Applications. , 2017, , 469-478.		0
22	Expression of holo-proteorhodopsin in Synechocystis sp. PCC 6803. Metabolic Engineering, 2016, 35, 83-94.	7.0	18
23	Heterologous expression of melanopsin: Present, problems and prospects. Progress in Retinal and Eye Research, 2016, 52, 1-21.	15.5	11
24	Vibrational Studies of Channelrhodopsin-1 from Chlamydomonas Augustae: Protonation Changes during the Early Photocycle. Biophysical Journal, 2015, 108, 460a.	0.5	0
25	A Comparative Study of Impurity Effects on Protein Crystallization: Diffusive versus Convective Crystal Growth. Crystal Growth and Design, 2015, 15, 1150-1159.	3.0	26
26	Comparison of the Structural Changes Occurring during the Primary Phototransition of Two Different Channelrhodopsins from Chlamydomonas Algae. Biochemistry, 2015, 54, 377-388.	2.5	17
27	Rapid transfer of overexpressed integral membrane protein from the host membrane into soluble lipid nanodiscs without previous purification. Biological Chemistry, 2015, 396, 903-915.	2.5	22
28	A practical kit for micro-scale application of the ceiling crystallisation method. CrystEngComm, 2015, 17, 2602-2605.	2.6	6
29	Conformational activation of visual rhodopsin in native disc membranes. Science Signaling, 2015, 8, ra26.	3.6	37
30	Modulation of spectral properties and pump activity of proteorhodopsins by retinal analogues. Biochemical Journal, 2015, 467, 333-343.	3.7	26
31	Light sensitivity in a vertebrate mechanoreceptor?. Journal of Experimental Biology, 2015, 218, 2826-9.	1.7	15
32	Coexpression of three opsins in cone photoreceptors of the salamander Ambystoma tigrinum. Journal of Comparative Neurology, 2014, 522, 2249-2265.	1.6	31
33	X-ray structure of human aquaporin 2 and its implications for nephrogenic diabetes insipidus and trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6305-6310.	7.1	124
34	Illuminating protein crystal growth using fluorophore-labelled proteins. CrystEngComm, 2014, 16, 9800-9809.	2.6	5
35	Large scale expression and purification of mouse melanopsin-L in the baculovirus expression system. Protein Expression and Purification, 2013, 91, 134-146.	1.3	8
36	High Resolution Protein Crystals Using an Efficient Convection-Free Geometry. Crystal Growth and Design, 2013, 13, 775-781.	3.0	19

#	Article	IF	Citations
37	The development of the depletion zone during ceiling crystallization: phase shifting interferometry and simulation results. CrystEngComm, 2013, 15, 2275.	2.6	12
38	A large geometric distortion in the first photointermediate of rhodopsin, determined by double-quantum solid-state NMR. Journal of Biomolecular NMR, 2012, 53, 247-256.	2.8	9
39	Assembly of the Major Light-Harvesting Complex II in Lipid Nanodiscs. Biophysical Journal, 2011, 101, 2507-2515.	0.5	54
40	Expression and Spectroscopic Characterization of Melanopsin and Squid Rhodopsin. Biophysical Journal, 2011, 100, 420a.	0.5	0
41	Cyclopropyl and Isopropyl Derivatives of 11-cisand 9-cisRetinals at C-9 and C-13: Subtle Steric Differences with Major Effects on Ligand Efficacy in Rhodopsin. Journal of Natural Products, 2011, 74, 383-390.	3.0	11
42	Uniform stable-isotope labeling in mammalian cells: formulation of a cost-effective culture medium. Applied Microbiology and Biotechnology, 2011, 89, 397-406.	3.6	35
43	Stable isotope labelling of human histamine receptor H1R: Prospects for structure-based drug design. Doklady Biochemistry and Biophysics, 2010, 433, 164-167.	0.9	9
44	Eye development and retinal differentiation in an altricial fish species, the senegalese sole (<i>Solea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Evolution, 2010, 314B, 580-605.	1.3	37
45	A single assay for multiple storageâ€sensitive red blood cell characteristics by means of infrared spectroscopy. Transfusion, 2010, 50, 366-375.	1.6	6
46	The area centralis in the chicken retina contains efferent target amacrine cells. Visual Neuroscience, 2009, 26, 249-254.	1.0	12
47	Monitoring of biomass composition from microbiological sources by means of FTâ€IR spectroscopy. Biotechnology and Bioengineering, 2009, 103, 123-129.	3.3	147
48	Production of yeastolates for uniform stable isotope labelling in eukaryotic cell culture. Applied Microbiology and Biotechnology, 2009, 84, 575-581.	3.6	17
49	Light Penetration and Photoisomerization in Rhodopsin studied by Numerical Simulations and Double-Quantum Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 6133-6140.	13.7	16
50	Fluoro Derivatives of Retinal Illuminate the Decisive Role of the C₁₂-H Element in Photoisomerization and Rhodopsin Activation. Journal of the American Chemical Society, 2009, 131, 17933-17942.	13.7	20
51	Cell differentiation in the retina of an epibenthonic teleost, the Tench (Tinca tinca, Linneo 1758). Experimental Eye Research, 2009, 89, 398-415.	2.6	24
52	Towards an interpretation of 13C chemical shifts in bathorhodopsin, a functional intermediate of a G-protein coupled receptor. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1350-1357.	2.6	16
53	Internalization and desensitization of adenosine receptors. Purinergic Signalling, 2008, 4, 21-37.	2.2	101
54	Salamander Blueâ€sensitive Cones Lost During Metamorphosis^{â€}. Photochemistry and Photobiology, 2008, 84, 855-862.	2.5	15

#	Article	IF	Citations
55	Alphaâ€retinals as Rhodopsin Chromophoresâ€”Preference for the 9â€Z Configuration and Partial Agonist Activity^{â€}. Photochemistry and Photobiology, 2008, 84, 889-894.	2.5	7
56	Functional Expression, Targeting and Ca²⁺ Signaling of a Mouse Melanopsinâ€eYFP Fusion Protein in a Retinal Pigment Epithelium Cell Line^{â€}. Photochemistry and Photobiology, 2008, 84, 990-995.	2.5	16
57	Red cell concentrates of hemochromatosis patients comply with the storage guidelines for transfusion purposes. Transfusion, 2008, 48, 436-441.	1.6	19
58	The proteome of red cell membranes and vesicles during storage in blood bank conditions. Transfusion, 2008, 48, 827-835.	1.6	64
59	Survival of red blood cells after transfusion: a comparison between red cells concentrates of different storage periods. Transfusion, 2008, 48, 1478-1485.	1.6	200
60	The pineal complex of Senegalese sole (Solea senegalensis): Anatomical, histological and immunohistochemical study. Aquaculture, 2008, 285, 207-215.	3.5	15
61	GPCR Proteomics: Mass Spectrometric and Functional Analysis of Histamine H₁ Receptor after Baculovirus-Driven and in Vitro Cell Free Expression. Journal of Proteome Research, 2008, 7, 621-629.	3.7	42
62	Double-Quantum 13C Nuclear Magnetic Resonance of Bathorhodopsin, the First Photointermediate in Mammalian Vision. Journal of the American Chemical Society, 2008, 130, 10490-10491.	13.7	44
63	The proteome of red cell membranes and vesicles during storage in blood bank conditions. Transfusion, 2008, 48, 827-835.	1.6	99
64	pH Dependence of Copper Geometry, Reduction Potential, and Nitrite Affinity in Nitrite Reductase. Journal of Biological Chemistry, 2007, 282, 6347-6355.	3.4	66
65	Magnetically controlled gravity for protein crystal growth. Applied Physics Letters, 2007, 90, .	3.3	47
66	Introduction of a rod pigment aromatic cluster does not improve the structural stability of the human green cone pigment. Journal of Structural Biology, 2007, 159, 222-227.	2.8	3
67	7,8-Dihydro Retinals Outperform the Native Retinals in Conferring Photosensitivity to Visual Opsin. Journal of the American Chemical Society, 2007, 129, 13265-13269.	13.7	14
68	Solid-State NMR Evidence for a Protonation Switch in the Binding Pocket of the H1 Receptor upon Binding of the Agonist Histamine. Journal of the American Chemical Society, 2007, 129, 867-872.	13.7	40
69	Differences in the pharmacological activation of visual opsins. Visual Neuroscience, 2006, 23, 899-908.	1.0	18
70	Accurate Measurements of13Câ^'13CJ-Couplings in the Rhodopsin Chromophore by Double-Quantum Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2006, 128, 3878-3879.	13.7	38
71	Methyl Substituents at the 11 or 12 Position of Retinal Profoundly and Differentially Affect Photochemistry and Signalling Activity of Rhodopsin. Journal of Molecular Biology, 2006, 363, 98-113.	4.2	19
72	Allosteric modulators affect the internalization of human adenosine A1 receptors. European Journal of Pharmacology, 2005, 522, 1-8.	3.5	19

#	Article	IF	Citations
73	Patterns of cell proliferation and cell death in the developing retina and optic tectum of the brown trout. Developmental Brain Research, 2005, 154, 101-119.	1.7	96
74	Selective Interface Detection:â€‰ Mapping Binding Site Contacts in Membrane Proteins by NMR Spectroscopy. Journal of the American Chemical Society, 2005, 127, 5734-5735.	13.7	27
75	Expression of CNTF Receptor-Î± in Chick Violet-Sensitive Cones with Unique Morphologic Properties. , 2004, 45, 655.		12
76	Large-scale overproduction, functional purification and ligand affinities of the His-tagged human histamine H1 receptor. FEBS Journal, 2004, 271, 2636-2646.	0.2	51
77	Deconvolution as a tool to remove fringes from an FT-IR spectrum. Vibrational Spectroscopy, 2004, 36, 89-95.	2.2	28
78	Solid-State NMR Analysis of Ligandâ^'Receptor Interactions Reveals an Induced Misfit in the Binding Site of Isorhodopsin. Biochemistry, 2004, 43, 16011-16018.	2.5	21
79	Protein-Induced Bonding Perturbation of the Rhodopsin Chromophore Detected by Double-Quantum Solid-State NMR. Journal of the American Chemical Society, 2004, 126, 3948-3953.	13.7	58
80	Constraints of the 9-Methyl Group Binding Pocket of the Rhodopsin Chromophore Probed by 9-Halogeno Substitution. Biochemistry, 2004, 43, 14802-14810.	2.5	9
81	Expression of the candidate circadian photopigment melanopsin (Opn4) in the mouse retinal pigment epithelium. Molecular Brain Research, 2004, 123, 132-135.	2.3	50
82	The Ring of the Rhodopsin Chromophore in a Hydrophobic Activation Switch Within the Binding Pocket. Journal of Molecular Biology, 2004, 343, 719-730.	4.2	50
83	Co-localization of mesotocin and opsin immunoreactivity in the hypothalamic preoptic nucleus of Xenopus laevis. Brain Research, 2003, 969, 36-43.	2.2	14
84	The eye of the african mole-ratCryptomys anselli: to see or not to see?. European Journal of Neuroscience, 2003, 17, 709-720.	2.6	37
85	Identification of circadian brain photoreceptors mediating photic entrainment of behavioural rhythms in lizards. European Journal of Neuroscience, 2003, 18, 364-372.	2.6	18
86	Conformational Similarities in the Î²-Ionone Ring Region of the Rhodopsin Chromophore in Its Ground State and after Photoactivation to the Metarhodopsin-I Intermediate. Biochemistry, 2003, 42, 13371-13378.	2.5	46
87	A green cone-like pigment in the â€˜blindâ€™ mole-rat Spalax ehrenbergi: functional expression and photochemical characterization. Photochemical and Photobiological Sciences, 2003, 2, 1287-1291.	2.9	9
88	Functional Expression of His-Tagged Rhodopsin in Sf9 Insect Cells. , 2003, 228, 73-86.		9
89	1H and 13C MAS NMR evidence for pronounced ligand-protein interactions involving the ionone ring of the retinylidene chromophore in rhodopsin. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9101-9106.	7.1	117
90	Melanopsin (Opn4) Requirement for Normal Light-Induced Circadian Phase Shifting. Science, 2002, 298, 2213-2216.	12.6	768

#	Article	IF	Citations
91	Retinitis pigmentosa-associated rhodopsin mutations in three membrane-located cysteine residues present three different biochemical phenotypes. Biochemical and Biophysical Research Communications, 2002, 297, 847-853.	2.1	13
92	Early development of the retina and pineal complex in the sea lamprey: Comparative immunocytochemical study. Journal of Comparative Neurology, 2002, 442, 250-265.	1.6	56
93	Large-scale purification of functional recombinant human aquaporin-2. FEBS Letters, 2001, 504, 200-205.	2.8	42
94	Ultra-High-Field MAS NMR Assay of a Multispin Labeled Ligand Bound to Its G-Protein Receptor Target in the Natural Membrane Environment:Â Electronic Structure of the Retinylidene Chromophore in Rhodopsinâ€. Biochemistry, 2001, 40, 3282-3288.	2.5	48
95	A Structural Role for Asp83 in the Photoactivation of Rhodopsin. Biological Chemistry, 2001, 382, 1263-1270.	2.5	12
96	Short and mid-wavelength cone distribution in a nocturnal Strepsirrhine primate (Microcebus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.6	109
97	[2] Baculovirus expression system for expression and characterization of functional recombinant visual pigments. Methods in Enzymology, 2000, 315, 12-29.	1.0	12
98	Determination of a molecular torsional angle in the metarhodopsin-I photointermediate of rhodopsin by double-quantum solid-state NMR. Journal of Biomolecular NMR, 2000, 16, 1-8.	2.8	66
99	A Fully Functional Rod Visual Pigment in a Blind Mammal. Journal of Biological Chemistry, 2000, 275, 38674-38679.	3.4	38
100	Eye lens Î±A- and Î±B-crystallin: complex stability versus chaperone-like activity. BBA - Proteins and Proteomics, 1999, 1434, 114-123.	2.1	48
101	Solid State 15N NMR Evidence for a Complex Schiff Base Counterion in the Visual G-Protein-Coupled Receptor Rhodopsin. Biochemistry, 1999, 38, 7195-7199.	2.5	75
102	Probing Intramolecular Orientations in Rhodopsin and Metarhodopsin II by Polarized Infrared Difference Spectroscopyâ€. Biochemistry, 1999, 38, 13200-13209.	2.5	20
103	Large-scale production and purification of functional recombinant bovine rhodopsin with the use of the baculovirus expression system. Biochemical Journal, 1999, 342, 293-300.	3.7	40
104	Large-scale functional expression of visual pigments: towards high-resolution structural and mechanistic insight. Biochemical Society Transactions, 1999, 27, 937-944.	3.4	4
105	Large-scale production and purification of functional recombinant bovine rhodopsin with the use of the baculovirus expression system. Biochemical Journal, 1999, 342, 293.	3.7	18
106	Photoactivation of Rhodopsin: Interplay between Protein and Chromophore. Novartis Foundation Symposium, 1999, 224, 102-123.	1.1	3
107	Light detection in a 'blind' mammal. Nature Neuroscience, 1998, 1, 655-656.	14.8	81
108	Erythrocyte aging in the demented elderly:. Mechanisms of Ageing and Development, 1998, 100, 53-58.	4.6	2

#	Article	IF	Citations
109	An Additional Methyl Group at the 10-Position of Retinal Dramatically Slows down the Kinetics of the Rhodopsin Photocascadeâ€. Biochemistry, 1998, 37, 1411-1420.	2.5	62
110	Photoactivation of Rhodopsin Causes an Increased Hydrogen-Deuterium Exchange of Buried Peptide Groups. Biophysical Journal, 1998, 74, 192-198.	0.5	42
111	Tyrosine Structural Changes Detected during the Photoactivation of Rhodopsin. Journal of Biological Chemistry, 1998, 273, 23735-23739.	3.4	40
112	Identification and distribution of photoreceptor subtypes in the neotenic tiger salamander retina. Visual Neuroscience, 1998, 15, 1175-1187.	1.0	72
113	Large-scale production and purification of the human green cone pigment: characterization of late photo-intermediates. Biochemical Journal, 1998, 330, 1201-1208.	3.7	26
114	Anion exchange proteins and regulation of intracellular pH in cultured rat astrocytes and neurones. NeuroReport, 1997, 8, 427-430.	1.2	7
115	Pigmented epithelium induces complete retinal reconstitution from dispersed embryonic chick retinae in reaggregation culture. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 1293-1302.	2.6	57
116	Involvement of Neuronal Anion Exchange Proteins in Cell Death in Alzheimer's Disease. Gerontology, 1997, 43, 67-78.	2.8	13
117	Pigmented Epithelium Sustains Cell Proliferation and Decreases Expression of Opsins and Acetylcholinesterase in Reaggregated Chicken Retinospheroids. European Journal of Neuroscience, 1997, 9, 1795-1803.	2.6	22
118	Modulation of the Metarhodopsin I/Metarhodopsin II Equilibrium of Bovine Rhodopsin by Ionic Strength. Evidence for a Surface-Charge Effect. FEBS Journal, 1997, 243, 174-180.	0.2	42
119	Macroscopic Orientation of Natural and Model Membranes for Structural Studies. Analytical Biochemistry, 1997, 254, 132-138.	2.4	56
120	Functional expression of human cone pigments using recombinant baculovirus: compatibility with histidine tagging and evidence forN-glycosylation. FEBS Letters, 1996, 396, 26-30.	2.8	27
121	Point mutations in bovine opsin can be classified in four groups with respect to their effect on the biosynthetic pathway of opsin. Biochemical Journal, 1996, 320, 807-815.	3.7	10
122	ANION EXCHANGE PROTEINS AND THE LIFE AND DEATH OF THE NEURON. Biochemical Society Transactions, 1996, 24, 596S-596S.	3.4	0
123	Opsin-like immunoreactivity in the circadian pacemaker neurons and photoreceptors of the eye of the opisthobranch mollusc Bulla gouldiana. Cell and Tissue Research, 1996, 287, 203-210.	2.9	10
124	Effect of carboxyl mutations on functional properties of bovine rhodopsin. Biophysical Chemistry, 1995, 56, 79-87.	2.8	44
125	Histidine Tagging Both Allows Convenient Single-step Purification of Bovine Rhodopsin and Exerts Ionic Strength-dependent Effects on Its Photochemistry. Journal of Biological Chemistry, 1995, 270, 11222-11229.	3.4	51
126	Antitumour activity and retinotoxicity of ethyldeshydroxy-sparsomycin in mice. European Journal of Cancer, 1995, 31, 1526-1530.	2.8	3

#	Article	IF	Citations
127	Influence of aging and neurodegenerative disease on changes in band 3-like proteins in white blood cells. Mechanisms of Ageing and Development, 1995, 80, 43-52.	4.6	2
128	Erythrocyte Aging, Anion Exchange Proteins, and Alzheimer's Disease. , 1995, , 38-54.		0
129	Identification of vertebrate deep brain photoreceptors. Neuroscience and Biobehavioral Reviews, 1994, 18, 541-546.	6.1	104
130	Expression of the anion exchanger (AE) gene family in human brain. Identification of a new AE protein: AE0. Molecular Brain Research, 1994, 25, 97-104.	2.3	23
131	Erythrocyte anion transporter and antibrain immunoreactivity in chorea-acanthocytosis. A contribution to etiology, genetics, and diagnosis. Brain Research Bulletin, 1994, 33, 523-528.	3.0	20
132	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. Biochemistry, 1993, 32, 10277-10282.	2.5	90
133	Erythrocyte membrane changes of individuals with Down's Syndrome in various stages of Alzheimer-type dementia. Neurobiology of Aging, 1993, 14, 223-228.	3.1	24
134	Erythrocyte Band 3-Like Protein Immunoreactivity in the Human Brain Cortex. Developmental Neuroscience, 1993, 15, 27-30.	2.0	2
135	Infrared analysis of peptide succinimide derivatives. International Journal of Peptide and Protein Research, 1993, 42, 570-577.	0.1	9
136	In Vitro Synthesis of Bovine Rhodopsin Using Recombinant Baculovirus. Methods in Neurosciences, 1993, 15, 307-321.	0.5	15
137	Are thrombocyte membranes altered in Alzheimer's disease? A morphometric and biochemical study. Neurobiology of Aging, 1992, 13, 711-716.	3.1	16
138	Studies towards the crystallization of the rod visual pigment rhodopsin. Journal of Crystal Growth, 1992, 122, 375-384.	1.5	106
139	A new template for rhodopsin (vitamin A1 based) visual pigments. Vision Research, 1991, 31, 619-630.	1.4	72
140	Uptake and isomerization of all-trans retinol by isolated bovine retinal pigment epithelial cells: Further clues to the visual cycle. Experimental Eye Research, 1991, 52, 129-138.	2.6	8
141	In vitro expression of bovine opsin using recombinant baculovirus: the role of glutamic acid (134) in opsin biosynthesis and glycosylation. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1991, 1089, 68-76.	2.4	68
142	Erythrocyte membrane characteristics indicate abnormal cellular aging in patients with Alzheimer's disease. Neurobiology of Aging, 1991, 12, 13-18.	3.1	76
143	[43] Exchange of retinoids between lipid vesicles and rod outer segment membranes. Methods in Enzymology, 1990, 189, 402-411.	1.0	2
144	10,20-Methanorhodopsins: (7E, 9E, 13E)-10, 20-methanorhodopsin and (7E, 9Z, 13Z)-10, 20-methanorhodopsin. 11-cis-Locked rhodopsin analog pigments with unusual thermal and photo-stability. FEBS Journal, 1990, 191, 211-220.	0.2	65

#	Article	IF	Citations
145	Development and degeneration of retina in rds mutant mice: immunoassay of the rod visual pigment rhodopsin. Biochimica Et Biophysica Acta - General Subjects, 1990, 1033, 103-109.	2.4	29
146	Asp83, Glu113and Glu134are not specifically involved in Schiff base protonation or wavelength regulation in bovine rhodopsin. FEBS Letters, 1990, 260, 113-118.	2.8	24
147	PHOTOEXCITATION OF RHODOPSIN: CONFORMATION CHANGES IN THE CHROMOPHORE, PROTEIN AND ASSOCIATED LIPIDS AS DETERMINED BY FTIR DIFFERENCE SPECTROSCOPY. Photochemistry and Photobiology, 1988, 48, 497-504.	2.5	72
148	RECENT CHEMICAL STUDIES RELATED TO VISION. Photochemistry and Photobiology, 1988, 48, 799-810.	2.5	16
149	Rhodopsin-induced experimental autoimmune uveoretinitis: Dose-dependent clinicopathological features. Experimental Eye Research, 1988, 47, 135-145.	2.6	39
150	Development and degeneration of retina in rds mutant mice: Ultraimmunohistochemical localization of opsin. Experimental Eye Research, 1987, 44, 347-361.	2.6	57
151	High-resolution solid-state 13C-NMR study of carbons C-5 and C-12 of the chromophore of bovine rhodopsin. Evidence for a 6-S-cis conformation with negative-charge perturbation near C-12. FEBS Journal, 1987, 163, 9-14.	0.2	71
152	Enzyme-linked immunosorbent assay for quantitative determination of the visual pigment rhodopsin in total-eye extracts. Experimental Eye Research, 1986, 43, 431-439.	2.6	34
153	In vivo potentiation of cis-diamminedichloroplatinum (II) antitumor activity by pretreatment with sparsomycin. Cancer Letters, 1986, 32, 53-59.	7.2	8
154	31P-NMR investigation of magnetically oriented rod outer segments. Spectral analysis and identification of individual phospholipids. FEBS Journal, 1986, 156, 383-390.	0.2	7
155	Chapter 6 Immunochemistry of rhodopsin. Progress in Retinal and Eye Research, 1985, 4, 137-180.	0.8	24
156	Immunoassay of rod visual pigment (opsin) in the eyes of rds mutant mice lacking receptor outer segments. Biochimica Et Biophysica Acta - General Subjects, 1985, 839, 122-126.	2.4	24
157	Carboxyl group involvement in the meta I and meta II stages in rhodopsin bleaching. A Fourier transform infrared spectroscopic study. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 809, 97-106.	1.0	51
158	Rod outer segment membranes: Good acceptors for retinoids?. Vision Research, 1984, 24, 1623-1627.	1.4	8
159	An enzyme-labeled immunoabsorbent assay (Elisa) for rhodopsinoids, comparison with radioimmunoassay. Vision Research, 1984, 24, 1693.	1.4	1
160	A new isolation technique for retinal pigment epithelium. Vision Research, 1984, 24, 1693.	1.4	1
161	FTIR study of rhodopsin recombinants: Evidence for protein conformational changes. Vision Research, 1984, 24, 1694.	1.4	0
162	Phase behavior of isolated photoreceptor membrane lipids is modulated by bivalent cations. FEBS Letters, 1984, 169, 256-260.	2.8	21

#	Article	IF	Citations
163	Detergent-induced specificity of an antirhodopsin serum for opsin micro-complement fixation studies. BBA - Proteins and Proteomics, 1983, 742, 463-470.	2.1	20
164	A radioimmunoassay specific for opsin. BBA - Proteins and Proteomics, 1983, 742, 471-476.	2.1	9
165	Reversible modulation of rhodopsin photolysis in pure phosphatidylserine membranes. Biochimica Et Biophysica Acta - Biomembranes, 1983, 734, 168-179.	2.6	65
166	[33] Sulfhydryl chemistry of rhodopsin. Methods in Enzymology, 1982, 81, 223-236.	1.0	21
167	[38] Thermal stability of rhodopsin and opsin in some novel detergents. Methods in Enzymology, 1982, 81, 256-265.	1.0	136
168	[30] Purification of bovine rhodopsin over concanavalin A-sepharose. Methods in Enzymology, 1982, 81, 197-207.	1.0	89
169	Rhodopsin reconstitution in vesicles formed from simple, fully synthetic amphiphiles. Journal of the American Chemical Society, 1982, 104, 1069-1072.	13.7	26
170	Use of a density modification technique for isolation of the plasma membrane of rod outer segments. Biochimica Et Biophysica Acta - Biomembranes, 1982, 687, 296-302.	2.6	39
171	Interference of detergents in immunoassays of rhodopsin. Vision Research, 1982, 22, 1447-1449.	1.4	6
172	[36] Isolation and purification of bovine rhodopsin. Methods in Enzymology, 1980, 67, 301-320.	1.0	93
173	Quantitative determination of retinals with complete retention of their geometric configuration. Lipids and Lipid Metabolism, 1980, 617, 430-438.	2.6	139
174	Degradation of rhodopsin by a lysosomal fraction of retinal pigment epithelium: Biochemical aspects of the visual process. XLI. Experimental Eye Research, 1980, 30, 183-191.	2.6	52
175	The disk membrane as model for an excitable membrane. Neurochemistry International, 1980, 1, 539-550.	3.8	5
176	Synthesis and properties of alkylglucosides with mild detergent action: improved synthesis and purification of Î²-1-octyl-, -nonyl-, and -decyl-glucose. Synthesis of Î²-1-undecylglucose and Î²-1-dodecylmaltose. Chemistry and Physics of Lipids, 1979, 23, 321-335.	3.2	139
177	Identification and characterization of syn- and anti-isomers of retinaloximes. Analytical Biochemistry, 1979, 99, 304-310.	2.4	63
178	A possible role of rhodopsin in maintaining bilayer structure in the photoreceptor membrane. Biochimica Et Biophysica Acta - Biomembranes, 1979, 558, 330-337.	2.6	83
179	Biochemical aspects of the visual process. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1978, 537, 145-152.	1.7	20
180	Biochemical aspects of the visual process. XXXI. Chemical modification studies on rod outer segment retinol dehydrogenase. Experimental Eye Research, 1975, 21, 549-555.	2.6	6

#	Article	IF	Citations
181	Biochemical aspects of the visual process XXVIII. Classification of sulfhydryl groups in rhodopsin and other photoreceptor membrane proteins. Biochimica Et Biophysica Acta - Bioenergetics, 1975, 396, 104-115.	1.0	34
182	Use of photoreceptor membrane suspensions for the study of rhodopsin and associated enzyme activities. Experimental Eye Research, 1974, 18, 77-88.	2.6	18
183	Biochemical aspects of the visual process. XXIII. Sulfhydryl groups and rhodopsin photolysis. Biochimica Et Biophysica Acta - Bioenergetics, 1973, 325, 315-322.	1.0	57
184	Biochemical aspects of the visual process XXII. Amino group modification in bovine rod photoreceptor membranes. Biochimica Et Biophysica Acta - Biomembranes, 1973, 323, 125-142.	2.6	35
185	The binding site of retinaldehyde in cattle rhodopsin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1973, 303, 189-193.	1.7	25
186	Biochemical aspects of the visual process XX. The molecular weight of rhodopsin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1972, 271, 419-428.	1.7	73
187	Enrichment of rhodopsin in rod outer segment membrane preparations. Vision Research, 1972, 12, 1697-1707.	1.4	104
188	Rhodopsins: An Excitingly Versatile Protein Species for Research, Development and Creative Engineering. Frontiers in Chemistry, 0, 10, .	3.6	17