

Thomas P Sakmar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3753849/publications.pdf>

Version: 2024-02-01

225
papers

17,198
citations

13854

67
h-index

15716

125
g-index

241
all docs

241
docs citations

241
times ranked

15140
citing authors

#	ARTICLE	IF	CITATIONS
1	FRET sensors reveal the retinal entry pathway in the G protein-coupled receptor rhodopsin. <i>IScience</i> , 2022, 25, 104060.	1.9	6
2	Getting to the heart of cannabis health risks. <i>Cell</i> , 2022, 185, 1623-1625.	13.5	3
3	Combined Inhibition of G β q and MEK Enhances Therapeutic Efficacy in Uveal Melanoma. <i>Clinical Cancer Research</i> , 2021, 27, 1476-1490.	3.2	29
4	Purinergic Receptors Crosstalk with CCR5 to Amplify Ca ²⁺ Signaling. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 1085-1101.	1.7	10
5	Direct evidence that the GPCR CysLTR2 mutant causative of uveal melanoma is constitutively active with highly biased signaling. <i>Journal of Biological Chemistry</i> , 2021, 296, 100163.	1.6	22
6	Principles and practice for SARS-CoV-2 decontamination of N95 masks with UV-C. <i>Biophysical Journal</i> , 2021, 120, 2927-2942.	0.2	23
7	Archiving time series sewage samples as biological records of built environments. <i>BMC Infectious Diseases</i> , 2021, 21, 601.	1.3	3
8	DRUL for school: Opening Pre-K with safe, simple, sensitive saliva testing for SARS-CoV-2. <i>PLoS ONE</i> , 2021, 16, e0252949.	1.1	5
9	Frizzled BRET sensors based on bioorthogonal labeling of unnatural amino acids reveal WNT-induced dynamics of the cysteine-rich domain. <i>Science Advances</i> , 2021, 7, eabj7917.	4.7	15
10	Playing Tag with Your Favorite GPCR Using CRISPR. <i>Cell Chemical Biology</i> , 2020, 27, 642-644.	2.5	2
11	14-3-3 signal adaptor and scaffold proteins mediate GPCR trafficking. <i>Scientific Reports</i> , 2019, 9, 11156.	1.6	15
12	Dual Bioorthogonal Labeling of the Amyloid- β 2 Protein Precursor Facilitates Simultaneous Visualization of the Protein and Its Cleavage Products. <i>Journal of Alzheimer's Disease</i> , 2019, 72, 537-548.	1.2	13
13	High-Affinity Binding of Chemokine Analogs that Display Ligand Bias at the HIV-1 Coreceptor CCR5. <i>Biophysical Journal</i> , 2019, 117, 903-919.	0.2	13
14	Genetic code expansion and photocross-linking identify different β 2-arrestin binding modes to the angiotensin II type 1 receptor. <i>Journal of Biological Chemistry</i> , 2019, 294, 17409-17420.	1.6	21
15	Multiplexed analysis of the secretin-like GPCR-RAMP interactome. <i>Science Advances</i> , 2019, 5, eaaw2778.	4.7	54
16	Conformation-specific antibodies against multiple amyloid protofibril species from a single amyloid immunogen. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 2103-2114.	1.6	11
17	Tracking Pore Hydration in Channelrhodopsin by Site-Directed Infrared-Active Azido Probes. <i>Biochemistry</i> , 2019, 58, 1275-1286.	1.2	8
18	Receptor Structures for a Caldron of Cannabinoids. <i>Cell</i> , 2019, 176, 409-411.	13.5	9

#	ARTICLE	IF	CITATIONS
19	Detection of Concordance between Transcriptional Levels of GPCRs and Receptor-Activity-Modifying Proteins. <i>IScience</i> , 2019, 11, 366-374.	1.9	11
20	Third-Party Capture of Elusive GPCR Dimers. <i>Biophysical Journal</i> , 2019, 116, 1-3.	0.2	18
21	Energetics Underlying Twist Polymorphisms in Amyloid Fibrils. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1081-1091.	1.2	44
22	Probing Antibody Binding Sites on G Protein-Coupled Receptors Using Genetically Encoded Photo-Activatable Cross-Linkers. <i>Methods in Molecular Biology</i> , 2018, 1785, 65-75.	0.4	1
23	DNA-encircled lipid bilayers. <i>Nanoscale</i> , 2018, 10, 18463-18467.	2.8	35
24	Ancient Family of Retinal Proteins Brought to Light â€œSight-Unseenâ€. <i>Biochemistry</i> , 2018, 57, 6735-6737.	1.2	1
25	G protein subtypeâ€“specific signaling bias in a series of CCR5 chemokine analogs. <i>Science Signaling</i> , 2018, 11, .	1.6	31
26	Photoaffinity Cross-Linking and Unnatural Amino Acid Mutagenesis Reveal Insights into Calcitonin Gene-Related Peptide Binding to the Calcitonin Receptor-like Receptor/Receptor Activity-Modifying Protein 1 (CLR/RAMP1) Complex. <i>Biochemistry</i> , 2018, 57, 4915-4922.	1.2	20
27	Update on Alzheimer's Disease Therapy and Prevention Strategies. <i>Annual Review of Medicine</i> , 2017, 68, 413-430.	5.0	402
28	Introduction: G-Protein Coupled Receptors. <i>Chemical Reviews</i> , 2017, 117, 1-3.	23.0	19
29	Nucleobindin 1 binds to multiple types of pre-fibrillar amyloid and inhibits fibrillization. <i>Scientific Reports</i> , 2017, 7, 42880.	1.6	29
30	Genetically encoded photocross-linkers determine the biological binding site of exendin-4 peptide in the N-terminal domain of the intact human glucagon-like peptide-1 receptor (GLP-1R). <i>Journal of Biological Chemistry</i> , 2017, 292, 7131-7144.	1.6	41
31	Tracking Pore Hydration within the Red-Activatable Channelrhodopsin ReaChR by Site-Directed Labeling with Infrared-Active Azido Probes. <i>Biophysical Journal</i> , 2017, 112, 549a.	0.2	0
32	Measurement of Slow Spontaneous Release of Δ^11 -cis-Retinal from Rhodopsin. <i>Biophysical Journal</i> , 2017, 112, 153-161.	0.2	14
33	Complex Photochemistry within the Green-Absorbing Channelrhodopsin ReaChR. <i>Biophysical Journal</i> , 2017, 112, 1166-1175.	0.2	18
34	Length-dependent gene misexpression is associated with Alzheimerâ€™s disease progression. <i>Scientific Reports</i> , 2017, 7, 190.	1.6	16
35	GPCRs globally coevolved with receptor activity-modifying proteins, RAMPs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12015-12020.	3.3	30
36	Probing Self-Assembly of G Protein-Coupled Receptor Oligomers in Membranes Using Molecular Dynamics Modeling and Experimental Approaches. , 2017, , 385-414.		1

#	ARTICLE	IF	CITATIONS
37	The Energetics of Chromophore Binding in the Visual Photoreceptor Rhodopsin. <i>Biophysical Journal</i> , 2017, 113, 60-72.	0.2	16
38	Epitranscriptomic profiling across cell types reveals associations between APOBEC1-mediated RNA editing, gene expression outcomes, and cellular function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13296-13301.	3.3	33
39	Isopeptide and ester bond ubiquitination both regulate degradation of the human dopamine receptor 4. <i>Journal of Biological Chemistry</i> , 2017, 292, 21623-21630.	1.6	17
40	Brain gene expression signature on primate genomic sequence evolution. <i>Scientific Reports</i> , 2017, 7, 17329.	1.6	5
41	Inside-out receptor inhibition. <i>Nature</i> , 2016, 540, 344-345.	13.7	6
42	Recurrent activating mutations of G-protein-coupled receptor CYSLTR2 in uveal melanoma. <i>Nature Genetics</i> , 2016, 48, 675-680.	9.4	236
43	CXC Chemokine Receptor 3 Alternative Splice Variants Selectively Activate Different Signaling Pathways. <i>Molecular Pharmacology</i> , 2016, 90, 483-495.	1.0	84
44	Genetically encoded photocrosslinkers locate the high-affinity binding site of antidepressant drugs in the human serotonin transporter. <i>Nature Communications</i> , 2016, 7, 11261.	5.8	51
45	Targeting of the pulmonary capillary vascular niche promotes lung alveolar repair and ameliorates fibrosis. <i>Nature Medicine</i> , 2016, 22, 154-162.	15.2	201
46	A simple method for enhancing the bioorthogonality of cyclooctyne reagent. <i>Chemical Communications</i> , 2016, 52, 5451-5454.	2.2	39
47	Defeating Alzheimer's disease and other dementias: a priority for European science and society. <i>Lancet Neurology</i> , 2016, 15, 455-532.	4.9	1,242
48	Preparation and Analysis of N-Terminal Chemokine Receptor Sulfopeptides Using Tyrosylprotein Sulfotransferase Enzymes. <i>Methods in Enzymology</i> , 2016, 570, 357-388.	0.4	9
49	Micelle-Enhanced Bioorthogonal Labeling of Genetically Encoded Azido Groups on the Lipid-Embedded Surface of a GPCR. <i>ChemBioChem</i> , 2015, 16, 1314-1322.	1.3	18
50	Novel Chemical Biology Methods Illuminate the Function of Single G Protein-Coupled Receptors. <i>Biophysical Journal</i> , 2015, 108, 96a.	0.2	0
51	Multiplex Detection of Functional G Protein-Coupled Receptors Harboring Site-Specifically Modified Unnatural Amino Acids. <i>Biochemistry</i> , 2015, 54, 776-786.	1.2	16
52	Development of a CCK1R-membrane nanoparticle as a fish-out tool for bioactive peptides. <i>Peptides</i> , 2015, 68, 219-227.	1.2	0
53	Bioorthogonal Labeling of Ghrelin Receptor to Facilitate Studies of Ligand-Dependent Conformational Dynamics. <i>Chemistry and Biology</i> , 2015, 22, 1431-1436.	6.2	17
54	Quantitative Multi-color Detection Strategies for Bioorthogonally Labeled GPCRs. <i>Methods in Molecular Biology</i> , 2015, 1335, 67-93.	0.4	3

#	ARTICLE	IF	CITATIONS
55	Optimized Zebrafish Apolipoprotein A-I Expression and Purification for Nabbs Assembly. <i>Biophysical Journal</i> , 2014, 106, 104a-105a.	0.2	1
56	Multi-Color, Single-Molecule Fluorescence Imaging of GPCR Signalosomes. <i>Biophysical Journal</i> , 2014, 106, 238a.	0.2	0
57	Antibody Epitopes on G Protein-Coupled Receptors Mapped with Genetically Encoded Photoactivatable Cross-Linkers. <i>Biochemistry</i> , 2014, 53, 1302-1310.	1.2	28
58	Bioorthogonal Fluorescent Labeling of Functional G Protein-Coupled Receptors. <i>ChemBioChem</i> , 2014, 15, 1820-1829.	1.3	43
59	Mapping Substance P Binding Sites on the Neurokinin-1 Receptor Using Genetic Incorporation of a Photoreactive Amino Acid. <i>Journal of Biological Chemistry</i> , 2014, 289, 18045-18054.	1.6	49
60	Chemical Biology Methods for Investigating G Protein-Coupled Receptor Signaling. <i>Chemistry and Biology</i> , 2014, 21, 1224-1237.	6.2	38
61	Site-Specific Tagging of Channelrhodopsins with Genetically-Encoded Azido Groups. <i>Biophysical Journal</i> , 2014, 106, 381a.	0.2	0
62	Supramolecular Organization of Rod Outer Segment Membrane: New Rhodopsin Dimer Interface and Insights from the ρ^2 Ar-Gs Complex. <i>Biophysical Journal</i> , 2014, 106, 305a-306a.	0.2	0
63	Mutagenesis Study of Retinal Entry Pathway of Rhodopsin. <i>Biophysical Journal</i> , 2014, 106, 306a.	0.2	0
64	Homogeneous Time-Resolved Fluorescence Assay to Probe Folded G Protein-Coupled Receptors. <i>Methods in Enzymology</i> , 2013, 522, 169-189.	0.4	3
65	Unnatural Amino Acid Mutagenesis of GPCRs Using Amber Codon Suppression and Bioorthogonal Labeling. <i>Methods in Enzymology</i> , 2013, 520, 281-305.	0.4	32
66	Site-Specific Bioorthogonal Labeling of a G Protein-Coupled Receptor at a Genetically Encoded Azido Amino Acid. <i>Biophysical Journal</i> , 2013, 104, 27a.	0.2	0
67	Probing G Protein-Coupled Receptor-Ligand Interactions with Targeted Photoactivatable Cross-Linkers. <i>Biochemistry</i> , 2013, 52, 8625-8632.	1.2	46
68	Site-Specific Labeling of Genetically Encoded Azido Groups for Multicolor, Single-Molecule Fluorescence Imaging of GPCRs. <i>Methods in Cell Biology</i> , 2013, 117, 267-303.	0.5	13
69	Site-Specific Epitope Tagging of G Protein-Coupled Receptors by Bioorthogonal Modification of a Genetically Encoded Unnatural Amino Acid. <i>Biochemistry</i> , 2013, 52, 1028-1036.	1.2	37
70	Visualizing Ghrelin Receptor through Genetically Encoded Labeling for Monitoring the Single-Molecule Conformational Dynamics. <i>Biophysical Journal</i> , 2013, 104, 612a.	0.2	0
71	Incorporation of Fluorescently Tagged Chemokine Receptor 5 (CCR5) into Membrane Nanoparticles. <i>Biophysical Journal</i> , 2013, 104, 115a.	0.2	0
72	Mapping a Ligand Binding Site Using Genetically Encoded Photoactivatable Crosslinkers. <i>Methods in Enzymology</i> , 2013, 520, 307-322.	0.4	19

#	ARTICLE	IF	CITATIONS
73	Spectral Tuning of Ultraviolet Cone Pigments: An Interhelical Lock Mechanism. <i>Journal of the American Chemical Society</i> , 2013, 135, 19064-19067.	6.6	24
74	Genetically-encoded Molecular Probes to Study G Protein-coupled Receptors. <i>Journal of Visualized Experiments</i> , 2013, , .	0.2	9
75	Use of G-Protein-Coupled and -Uncoupled CCR5 Receptors by CCR5 Inhibitor-Resistant and -Sensitive Human Immunodeficiency Virus Type 1 Variants. <i>Journal of Virology</i> , 2013, 87, 6569-6581.	1.5	38
76	Unnatural amino acids for the study of chemokine receptor structure and dynamics. <i>Drug Discovery Today: Technologies</i> , 2012, 9, e301-e313.	4.0	3
77	Redder Than Red. <i>Science</i> , 2012, 338, 1299-1300.	6.0	6
78	Identification of a Small Molecule-Ligand-Binding Pocket in a G Protein-Coupled Receptor using Genetically-Encoded Photocrosslinkers. <i>Biophysical Journal</i> , 2012, 102, 240a.	0.2	0
79	Dual-Color Fluorescent Labeling of G Protein-Coupled Receptors. <i>Biophysical Journal</i> , 2012, 102, 518a.	0.2	0
80	Dynamic Assembly of the Receptor-G-Protein Signaling Complex. <i>Biophysical Journal</i> , 2012, 102, 516a.	0.2	0
81	Rhodopsin Forms a Dimer with Cytoplasmic Helix 8 Contacts in Native Membranes. <i>Biochemistry</i> , 2012, 51, 1819-1821.	1.2	65
82	Har Gobind Khorana (1922â€“2011): Chemical Biology Pioneer. <i>ACS Chemical Biology</i> , 2012, 7, 250-251.	1.6	0
83	Genetically Encoded Photo-cross-linkers Map the Binding Site of an Allosteric Drug on a G Protein-Coupled Receptor. <i>ACS Chemical Biology</i> , 2012, 7, 967-972.	1.6	67
84	Nucleobindin 1 Caps Human Islet Amyloid Polypeptide Protofibrils to Prevent Amyloid Fibril Formation. <i>Journal of Molecular Biology</i> , 2012, 421, 378-389.	2.0	21
85	Contributions of H G Khorana to understanding transmembrane signal transduction. <i>Resonance</i> , 2012, 17, 1165-1173.	0.2	1
86	Probing GPCR Signaling with Genetically-Encoded Non-Natural Amino Acids. <i>Biophysical Journal</i> , 2012, 102, 609a.	0.2	0
87	Biochemical Crosslinking and Liquid Chromatography-Mass Spectrometry Demonstrate a Rhodopsin Dimerization Interface Mediated by Helices 1 and 8. <i>Biophysical Journal</i> , 2012, 102, 239a.	0.2	0
88	Ion channel in the spotlight. <i>Nature</i> , 2012, 482, 318-319.	18.7	1
89	Structural Determinants of the Supramolecular Organization of G Protein-Coupled Receptors in Bilayers. <i>Journal of the American Chemical Society</i> , 2012, 134, 10959-10965.	6.6	199
90	Direct Measurement of Thermal Stability of Expressed CCR5 and Stabilization by Small Molecule Ligands. <i>Biochemistry</i> , 2011, 50, 502-511.	1.2	44

#	ARTICLE	IF	CITATIONS
91	Direct Interaction between an Allosteric Agonist Pepducin and the Chemokine Receptor CXCR4. <i>Journal of the American Chemical Society</i> , 2011, 133, 15878-15881.	6.6	64
92	Novel Trifunctional Bio-Orthogonal Reagents for Microscale Stoichiometric Labeling of Proteins for Single-Molecule Fluorescence Studies of Signalosomes. <i>Biophysical Journal</i> , 2011, 100, 256a-257a.	0.2	0
93	Halting the Amyloid March: How a Novel Ca ²⁺ -Binding Protein, NUCB1, Prevents the Formation of Amyloid Fibrils. <i>Biophysical Journal</i> , 2011, 100, 538a.	0.2	0
94	Structural Dynamics of a Signalosome: The Receptor-G protein Complex. <i>Biophysical Journal</i> , 2011, 100, 255a.	0.2	0
95	High-Throughput Measurement of GPCR Stability At Femtomole Scale. <i>Biophysical Journal</i> , 2011, 100, 178a.	0.2	0
96	Mapping the Ligand-Binding Site on a G Protein-Coupled Receptor (GPCR) Using Genetically Encoded Photocrosslinkers. <i>Biochemistry</i> , 2011, 50, 3411-3413.	1.2	91
97	Site-Specific Fluorescent Labeling of G Protein-Coupled Receptors. <i>Biophysical Journal</i> , 2011, 100, 256a.	0.2	0
98	Escaping the flatlands: new approaches for studying the dynamic assembly and activation of GPCR signaling complexes. <i>Trends in Pharmacological Sciences</i> , 2011, 32, 410-419.	4.0	35
99	G protein-coupled receptor modulation with pepducins: moving closer to the clinic. <i>Annals of the New York Academy of Sciences</i> , 2011, 1226, 34-49.	1.8	39
100	Opsin Is a Phospholipid Flippase. <i>Current Biology</i> , 2011, 21, 149-153.	1.8	154
101	Site-specific in vitro and in vivo incorporation of molecular probes to study G-protein-coupled receptors. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 392-398.	2.8	41
102	Multiple CCR5 Conformations on the Cell Surface Are Used Differentially by Human Immunodeficiency Viruses Resistant or Sensitive to CCR5 Inhibitors. <i>Journal of Virology</i> , 2011, 85, 8227-8240.	1.5	60
103	CXCR7/CXCR4 Heterodimer Constitutively Recruits β -Arrestin to Enhance Cell Migration. <i>Journal of Biological Chemistry</i> , 2011, 286, 32188-32197.	1.6	295
104	Clicking class B GPCR ligands. <i>Nature Chemical Biology</i> , 2011, 7, 500-501.	3.9	5
105	Snapshot of a signalling complex. <i>Nature</i> , 2011, 477, 540-541.	13.7	16
106	Tracking G-protein-coupled receptor activation using genetically encoded infrared probes. <i>Nature</i> , 2010, 464, 1386-1389.	13.7	245
107	Nucleobindin 1 Is a Calcium-regulated Guanine Nucleotide Dissociation Inhibitor of G β 1. <i>Journal of Biological Chemistry</i> , 2010, 285, 31647-31660.	1.6	28
108	Structure and Function of G-Protein-Coupled Receptors. , 2010, , 151-156.		2

#	ARTICLE	IF	CITATIONS
109	Methodology of Pulsed Photoacoustics and Its Application to Probe Photosystems and Receptors. <i>Sensors</i> , 2010, 10, 5642-5667.	2.1	12
110	Quantitative GPCR Assay Using Time-Resolved FRET. <i>Biophysical Journal</i> , 2010, 98, 287a.	0.2	0
111	SEIRA Spectroscopy on a Membrane Receptor Monolayer Using Lipoprotein Particles as Carriers. <i>Biophysical Journal</i> , 2010, 99, 2327-2335.	0.2	21
112	Molecular Dynamics Simulations of Active Receptor-G Protein Complex in a Lipid Bilayer. <i>Biophysical Journal</i> , 2010, 98, 289a.	0.2	0
113	Novel Technology to Study Chemokine Receptor Signaling Complexes. <i>Biophysical Journal</i> , 2010, 98, 292a.	0.2	0
114	Discovery of a CXCR4 agonist pepducin that mobilizes bone marrow hematopoietic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22255-22259.	3.3	90
115	FTIR analysis of GPCR activation using azido probes. <i>Nature Chemical Biology</i> , 2009, 5, 397-399.	3.9	173
116	Helix movement is coupled to displacement of the second extracellular loop in rhodopsin activation. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 168-175.	3.6	210
117	6- <i>cis</i> Conformation and Polar Binding Pocket of the Retinal Chromophore in the Photoactivated State of Rhodopsin. <i>Journal of the American Chemical Society</i> , 2009, 131, 15160-15169.	6.6	38
118	Structural Evidence for a Sequential Release Mechanism for Activation of Heterotrimeric G Proteins. <i>Journal of Molecular Biology</i> , 2009, 393, 882-897.	2.0	45
119	Toward a framework for sulfoproteomics: Synthesis and characterization of sulfotyrosine-containing peptides. <i>Biopolymers</i> , 2008, 90, 459-477.	1.2	97
120	Bilateral olfactory sensory input enhances chemotaxis behavior. <i>Nature Neuroscience</i> , 2008, 11, 187-199.	7.1	167
121	Structural Basis for Ligand Binding and Specificity in Adrenergic Receptors: Implications for GPCR-Targeted Drug Discovery. <i>Biochemistry</i> , 2008, 47, 11013-11023.	1.2	60
122	Rapid Incorporation of Functional Rhodopsin into Nanoscale Apolipoprotein Bound Bilayer (NABB) Particles. <i>Journal of Molecular Biology</i> , 2008, 377, 1067-1081.	2.0	110
123	Functional Role of the "Lonc Lock" An Interhelical Hydrogen-Bond Network in Family A Heptahelical Receptors. <i>Journal of Molecular Biology</i> , 2008, 380, 648-655.	2.0	148
124	Sequential Tyrosine Sulfation of CXCR4 by Tyrosylprotein Sulfotransferases. <i>Biochemistry</i> , 2008, 47, 11251-11262.	1.2	84
125	Rhodopsin's active state is frozen like a DEER in the headlights. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7343-7344.	3.3	9
126	Site-specific Incorporation of Keto Amino Acids into Functional G Protein-coupled Receptors Using Unnatural Amino Acid Mutagenesis. <i>Journal of Biological Chemistry</i> , 2008, 283, 1525-1533.	1.6	155

#	ARTICLE	IF	CITATIONS
127	Structural Basis of CXCR4 Sulfotyrosine Recognition by the Chemokine SDF-1/CXCL12. <i>Science Signaling</i> , 2008, 1, ra4.	1.6	256
128	A Novel Interaction between Atrophin-interacting Protein 4 and \hat{I}^2 -p21-activated Kinase-interactive Exchange Factor Is Mediated by an SH3 Domain. <i>Journal of Biological Chemistry</i> , 2007, 282, 28893-28903.	1.6	25
129	G Protein-Coupled Receptors Self-Assemble in Dynamics Simulations of Model Bilayers. <i>Journal of the American Chemical Society</i> , 2007, 129, 10126-10132.	6.6	298
130	Photointermediates of the Rhodopsin S186A Mutant as a Probe of the Hydrogen-Bond Network in the Chromophore Pocket and the Mechanism of Counterion Switchâ€. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8843-8848.	1.5	22
131	G protein $\hat{I}^2\hat{I}^3$ subunit interaction with the dynein light-chain component Tctex-1 regulates neurite outgrowth. <i>EMBO Journal</i> , 2007, 26, 2621-2632.	3.5	76
132	Coupling of Protonation Switches During Rhodopsin Activationâ€. <i>Photochemistry and Photobiology</i> , 2007, 83, 286-292.	1.3	32
133	Curvature and Hydrophobic Forces Drive Oligomerization and Modulate Activity of Rhodopsin in Membranes. <i>Biophysical Journal</i> , 2006, 91, 4464-4477.	0.2	261
134	Modulating Rhodopsin Receptor Activation by Altering the pKa of the Retinal Schiff Base. <i>Journal of the American Chemical Society</i> , 2006, 128, 10503-10512.	6.6	22
135	Proton Movement and Photointermediate Kinetics in Rhodopsin Mutants. <i>Biochemistry</i> , 2006, 45, 5430-5439.	1.2	11
136	Agonists and Partial Agonists of Rhodopsin:â€ Retinal Polyene Methylation Affects Receptor Activationâ€. <i>Biochemistry</i> , 2006, 45, 1640-1652.	1.2	49
137	Parietal-Eye Phototransduction Components and Their Potential Evolutionary Implications. <i>Science</i> , 2006, 311, 1617-1621.	6.0	113
138	Crystal Structure of the SH3 Domain of \hat{I}^2 PIX in Complex with a High Affinity Peptide from PAK2. <i>Journal of Molecular Biology</i> , 2006, 358, 509-522.	2.0	45
139	Recognition of a CXCR4 Sulfotyrosine by the Chemokine Stromal Cell-derived Factor-1 \hat{I}^{\pm} (SDF-1 \hat{I}^{\pm} /CXCL12). <i>Journal of Molecular Biology</i> , 2006, 359, 1400-1409.	2.0	116
140	Interaction of small molecule inhibitors of HIV-1 entry with CCR5. <i>Virology</i> , 2006, 349, 41-54.	1.1	123
141	Timing Is Everything: Direct Measurement of Retinol Production in Cones and Rods. <i>Journal of General Physiology</i> , 2006, 128, 147-148.	0.9	3
142	The Photoreceptor Membrane as a Model System in the Study of Biological Signal Transduction. <i>Behavior Research Methods</i> , 2005, 1, 181-206.	2.3	0
143	The Role of Glu181 in the Photoactivation of Rhodopsin. <i>Journal of Molecular Biology</i> , 2005, 353, 345-356.	2.0	105
144	The Differential Sensitivity of Human and Rhesus Macaque CCR5 to Small-Molecule Inhibitors of Human Immunodeficiency Virus Type 1 Entry Is Explained by a Single Amino Acid Difference and Suggests a Mechanism of Action for These Inhibitors. <i>Journal of Virology</i> , 2004, 78, 4134-4144.	1.5	42

#	ARTICLE	IF	CITATIONS
145	The state of GPCR research in 2004. <i>Nature Reviews Drug Discovery</i> , 2004, 3, 577-626.	21.5	81
146	Time-Resolved Photointermediate Changes in Rhodopsin Glutamic Acid 181 Mutants. <i>Biochemistry</i> , 2004, 43, 12614-12621.	1.2	28
147	Resonance Raman Analysis of the Mechanism of Energy Storage and Chromophore Distortion in the Primary Visual Photoproduct. <i>Biochemistry</i> , 2004, 43, 10867-10876.	1.2	51
148	Small-Molecule Antagonists of CCR5 and CXCR4: A Promising New Class of Anti-HIV-1 Drugs. <i>Current Pharmaceutical Design</i> , 2004, 10, 2041-2062.	0.9	79
149	Retinal counterion switch in the photoactivation of the G protein-coupled receptor rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9262-9267.	3.3	204
150	Analysis of the Mechanism by Which the Small-Molecule CCR5 Antagonists SCH-351125 and SCH-350581 Inhibit Human Immunodeficiency Virus Type 1 Entry. <i>Journal of Virology</i> , 2003, 77, 5201-5208.	1.5	200
151	Structure and Function of G-Protein-Coupled Receptors: Lessons from the Crystal Structure of Rhodopsin. , 2003, , 139-143.		0
152	Rhodopsin: Insights from Recent Structural Studies. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2002, 31, 443-484.	18.3	222
153	Tyrosine sulfation of CCR5 N-terminal peptide by tyrosylprotein sulfotransferases 1 and 2 follows a discrete pattern and temporal sequence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11031-11036.	3.3	100
154	Interaction of A2E with Model Membranes. Implications to the Pathogenesis of Age-related Macular Degeneration. <i>Journal of General Physiology</i> , 2002, 120, 147-157.	0.9	89
155	Recreating a Functional Ancestral Archosaur Visual Pigment. <i>Molecular Biology and Evolution</i> , 2002, 19, 1483-1489.	3.5	147
156	Synthetic gene technology: Applications to ancestral gene reconstruction and structure-function studies of receptors. <i>Methods in Enzymology</i> , 2002, 343, 274-294.	0.4	17
157	Roles of Specific Extracellular Domains of the Glucagon Receptor in Ligand Binding and Signaling. <i>Biochemistry</i> , 2002, 41, 11795-11803.	1.2	45
158	Function of Extracellular Loop 2 in Rhodopsin: Glutamic Acid 181 Modulates Stability and Absorption Wavelength of Metarhodopsin II. <i>Biochemistry</i> , 2002, 41, 3620-3627.	1.2	92
159	Evidence That Helix 8 of Rhodopsin Acts as a Membrane-Dependent Conformational Switch. <i>Biochemistry</i> , 2002, 41, 8298-8309.	1.2	95
160	Disruption of the ± 5 Helix of Transducin Impairs Rhodopsin-Catalyzed Nucleotide Exchange. <i>Biochemistry</i> , 2002, 41, 6988-6994.	1.2	51
161	Structure of rhodopsin and the superfamily of seven-helical receptors: the same and not the same. <i>Current Opinion in Cell Biology</i> , 2002, 14, 189-195.	2.6	107
162	Glucagon receptor causes glucagon-dependent activation of Erk1/2 in H22 stable cell lines. , 2002, , 600-601.		0

#	ARTICLE	IF	CITATIONS
163	Rhodopsin: Structural Basis of Molecular Physiology. <i>Physiological Reviews</i> , 2001, 81, 1659-1688.	13.1	291
164	Glucagon receptor activates extracellular signal-regulated protein kinase 1/2 via cAMP-dependent protein kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 10102-10107.	3.3	47
165	Rapid Activation of Transducin by Mutations Distant from the Nucleotide-binding Site. <i>Journal of Biological Chemistry</i> , 2001, 276, 27400-27405.	1.6	62
166	The Function of Interdomain Interactions in Controlling Nucleotide Exchange Rates in Transducin. <i>Journal of Biological Chemistry</i> , 2001, 276, 23873-23880.	1.6	32
167	[9] Analysis of functional microdomains of rhodopsin. <i>Methods in Enzymology</i> , 2000, 315, 116-130.	0.4	7
168	[13] Structural determinants of active state conformation of rhodopsin: Molecular biophysics approaches. <i>Methods in Enzymology</i> , 2000, 315, 178-196.	0.4	18
169	[18] Assays for activation of recombinant expressed opsins by all-trans-retinals. <i>Methods in Enzymology</i> , 2000, 315, 251-267.	0.4	12
170	Restoration of compact discs. <i>Nature Genetics</i> , 2000, 25, 245-246.	9.4	1
171	The Amino Terminus of the Fourth Cytoplasmic Loop of Rhodopsin Modulates Rhodopsin-Transducin Interaction. <i>Journal of Biological Chemistry</i> , 2000, 275, 1930-1936.	1.6	121
172	Specific interaction of CCR5 amino-terminal domain peptides containing sulfotyrosines with HIV-1 envelope glycoprotein gp120. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5762-5767.	3.3	182
173	Mutation of the Fourth Cytoplasmic Loop of Rhodopsin Affects Binding of Transducin α and β Subunits. <i>Journal of Biological Chemistry</i> , 2000, 275, 1937-1943.	1.6	146
174	A binding pocket for a small molecule inhibitor of HIV-1 entry within the transmembrane helices of CCR5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5639-5644.	3.3	413
175	Selective Stabilization of the High Affinity Binding Conformation of Glucagon Receptor by the Long Splice Variant of $G_{i/s}$. <i>Journal of Biological Chemistry</i> , 2000, 275, 21631-21638.	1.6	26
176	Reconstitution of the Vertebrate Visual Cascade Using Recombinant Heterotrimeric Transducin Purified from Sf9 Cells. <i>Protein Expression and Purification</i> , 2000, 20, 514-526.	0.6	25
177	Rhodopsin Activation Affects the Environment of Specific Neighboring Phospholipids: An FTIR Spectroscopic Study. <i>Biophysical Journal</i> , 2000, 79, 3063-3071.	0.2	45
178	Selective Reconstitution of Human D4 Dopamine Receptor Variants with $G_{i/s}$ Subtypes. <i>Biochemistry</i> , 2000, 39, 3734-3744.	1.2	65
179	pH Dependence of Photolysis Intermediates in the Photoactivation of Rhodopsin Mutant E113Q. <i>Biochemistry</i> , 2000, 39, 599-606.	1.2	19
180	Transducin-Dependent Protonation of Glutamic Acid 134 in Rhodopsin. <i>Biochemistry</i> , 2000, 39, 10607-10612.	1.2	73

#	ARTICLE	IF	CITATIONS
181	Dopamine D4/D2 Receptor Selectivity Is Determined by A Divergent Aromatic Microdomain Contained within the Second, Third, and Seventh Membrane-Spanning Segments. <i>Molecular Pharmacology</i> , 1999, 56, 1116-1126.	1.0	92
182	Two Cytoplasmic Loops of the Glucagon Receptor Are Required to Elevate cAMP or Intracellular Calcium. <i>Journal of Biological Chemistry</i> , 1999, 274, 19455-19464.	1.6	49
183	How color visual pigments are tuned. <i>Trends in Biochemical Sciences</i> , 1999, 24, 300-305.	3.7	198
184	Rhodopsin Early Receptor Potential Revisited. <i>Biophysical Journal</i> , 1999, 77, 1189-1190.	0.2	6
185	Colour Tuning Mechanisms of Visual Pigments. <i>Novartis Foundation Symposium</i> , 1999, 224, 124-141.	1.2	8
186	Lipid Involvement in Rhodopsin Interaction. , 1999, , 373-374.		0
187	AMD3100, a small molecule inhibitor of HIV-1 entry via the CXCR4 co-receptor. <i>Nature Medicine</i> , 1998, 4, 72-77.	15.2	760
188	Evidence for the specific interaction of a lipid molecule with rhodopsin which is altered in the transition to the active state metarhodopsin III. <i>FEBS Letters</i> , 1998, 436, 304-308.	1.3	49
189	Spectroscopic Evidence for Interaction between Transmembrane Helices 3 and 5 in Rhodopsin. <i>Biochemistry</i> , 1998, 37, 7630-7639.	1.2	82
190	Constitutive Activation of Opsin by Mutation of Methionine 257 on Transmembrane Helix 6. <i>Biochemistry</i> , 1998, 37, 8253-8261.	1.2	150
191	Role of the C9Methyl Group in Rhodopsin Activation: Characterization of Mutant Opsins with the Artificial Chromophore 11-cis-9-Demethylretinal. <i>Biochemistry</i> , 1998, 37, 538-545.	1.2	58
192	Mechanisms of Spectral Tuning in Blue Cone Visual Pigments. <i>Journal of Biological Chemistry</i> , 1998, 273, 24583-24591.	1.6	126
193	Amino-Terminal Substitutions in the CCR5 Coreceptor Impair gp120 Binding and Human Immunodeficiency Virus Type 1 Entry. <i>Journal of Virology</i> , 1998, 72, 279-285.	1.5	209
194	Partial Agonist Activity of 11-cis-Retinal in Rhodopsin Mutants. <i>Journal of Biological Chemistry</i> , 1997, 272, 23081-23085.	1.6	37
195	Rhodopsin: A Prototypical G Protein-Coupled Receptor. <i>Progress in Molecular Biology and Translational Science</i> , 1997, 59, 1-34.	1.9	84
196	Chromophore structural changes in rhodopsin from nanoseconds to microseconds following pigment photolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 8557-8562.	3.3	48
197	Time-Resolved Spectroscopy of the Early Photolysis Intermediates of Rhodopsin Schiff Base Counterion Mutants. <i>Biochemistry</i> , 1997, 36, 1999-2009.	1.2	19
198	Properties of Early Photolysis Intermediates of Rhodopsin Are Affected by Glycine 121 and Phenylalanine 261. <i>Biochemistry</i> , 1997, 36, 11804-11810.	1.2	23

#	ARTICLE	IF	CITATIONS
199	The steric trigger in rhodopsin activation 1 Edited by F. E.Cohen. Journal of Molecular Biology, 1997, 269, 373-384.	2.0	98
200	The C9 methyl group of retinal interacts with glycine-121 in rhodopsin. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 13442-13447.	3.3	69
201	Specific Tryptophan UV-Absorbance Changes Are Probes of the Transition of Rhodopsin to Its Active State. Biochemistry, 1996, 35, 11149-11159.	1.2	244
202	Spectroscopic Evidence for Altered Chromophore-Protein Interactions in Low-Temperature Photoproducts of the Visual Pigment Responsible for Congenital Night Blindness. Biochemistry, 1996, 35, 15065-15073.	1.2	25
203	Characterization of the Mutant Visual Pigment Responsible for Congenital Night Blindness: A Biochemical and Fourier-Transform Infrared Spectroscopy Study. Biochemistry, 1996, 35, 7536-7545.	1.2	53
204	Antibodies against specific extracellular epitopes of the glucagon receptor block glucagon binding. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 310-315.	3.3	55
205	Rhodopsin activation blocked by metal-ion-binding sites linking transmembrane helices C and F. Nature, 1996, 383, 347-350.	13.7	429
206	The Effects of Amino Acid Replacements of Glycine 121 on Transmembrane Helix 3 of Rhodopsin. Journal of Biological Chemistry, 1996, 271, 32330-32336.	1.6	71
207	Functional Interaction of Transmembrane Helices 3 and 6 in Rhodopsin. Journal of Biological Chemistry, 1996, 271, 32337-32342.	1.6	79
208	Properties and Photoactivity of Rhodopsin Mutants. Israel Journal of Chemistry, 1995, 35, 325-337.	1.0	29
209	[17] Synthesis and expression of synthetic genes: Applications to structure-function studies of receptors. Methods in Neurosciences, 1995, , 322-344.	0.5	4
210	Photoactivated state of rhodopsin and how it can form. Biophysical Chemistry, 1995, 56, 171-181.	1.5	59
211	Characterization of Rhodopsin Mutants That Bind Transducin but Fail to Induce GTP Nucleotide Uptake. Journal of Biological Chemistry, 1995, 270, 10580-10586.	1.6	78
212	Characterization of Deletion and Truncation Mutants of the Rat Glucagon Receptor. Journal of Biological Chemistry, 1995, 270, 27720-27727.	1.6	86
213	Identification of Glutamic Acid 113 as the Schiff Base Proton Acceptor in the Metarhodopsin II Photointermediate of Rhodopsin. Biochemistry, 1994, 33, 10878-10882.	1.2	156
214	A Mutant Rhodopsin Photoproduct with a Protonated Schiff Base Displays an Active-State Conformation: A Fourier-Transform Infrared Spectroscopy Study. Biochemistry, 1994, 33, 13700-13705.	1.2	47
215	Characterization of Rhodopsin-Transducin Interaction: A Mutant Rhodopsin Photoproduct with a Protonated Schiff Base Activates Transducin. Biochemistry, 1994, 33, 9753-9761.	1.2	61
216	Regulation of the rhodopsin-transducin interaction by a highly conserved carboxylic acid group. Biochemistry, 1993, 32, 7229-7236.	1.2	240

#	ARTICLE	IF	CITATIONS
217	Light-dependent transducin activation by an ultraviolet-absorbing rhodopsin mutant. <i>Biochemistry</i> , 1993, 32, 9165-9171.	1.2	62
218	Protonation states of membrane-embedded carboxylic acid groups in rhodopsin and metarhodopsin II: a Fourier-transform infrared spectroscopy study of site-directed mutants.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 10206-10210.	3.3	260
219	Resonance Raman microprobe spectroscopy of rhodopsin mutants: effect of substitutions in the third transmembrane helix. <i>Biochemistry</i> , 1992, 31, 5105-5111.	1.2	67
220	The role of the retinylidene Schiff base counterion in rhodopsin in determining wavelength absorbance and Schiff base pKa.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 3079-3083.	3.3	146
221	Rhodopsin mutants that bind but fail to activate transducin. <i>Science</i> , 1990, 250, 123-125.	6.0	460
222	Glutamic acid-113 serves as the retinylidene Schiff base counterion in bovine rhodopsin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 8309-8313.	3.3	760
223	Total synthesis and expression of a gene for the $\hat{\iota}$ -subunit of bovine rod outer segment guanine nucleotide-binding protein (transducin). <i>Nucleic Acids Research</i> , 1988, 16, 6361-6372.	6.5	25
224	Cysteine residues 110 and 187 are essential for the formation of correct structure in bovine rhodopsin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 8459-8463.	3.3	416
225	A differential labeling model for determining the number of catalytically essential carboxyl groups in fumarase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1981, 662, 196-201.	1.4	2