

# Brian K Kobilka

## List of Publications by Year in descending order

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270  
papers

55,347  
citations

1536

106  
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1254

226  
g-index

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282  
docs citations

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times ranked

29111  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Resolution Crystal Structure of an Engineered Human $\beta_2$ -Adrenergic G Protein-Coupled Receptor. <i>Science</i> , 2007, 318, 1258-1265.	12.6	3,112
2	Crystal structure of the $\beta_2$ adrenergic receptor-Gs protein complex. <i>Nature</i> , 2011, 477, 549-555.	27.8	2,712
3	The structure and function of G-protein-coupled receptors. <i>Nature</i> , 2009, 459, 356-363.	27.8	1,982
4	Crystal structure of the human $\beta_2$ adrenergic G-protein-coupled receptor. <i>Nature</i> , 2007, 450, 383-387.	27.8	1,832
5	Structure of a nanobody-stabilized active state of the $\beta_2$ adrenoceptor. <i>Nature</i> , 2011, 469, 175-180.	27.8	1,523
6	GPCR Engineering Yields High-Resolution Structural Insights into $\beta_2$ -Adrenergic Receptor Function. <i>Science</i> , 2007, 318, 1266-1273.	12.6	1,324
7	Cloning of the gene and cDNA for mammalian $\beta_2$ -adrenergic receptor and homology with rhodopsin. <i>Nature</i> , 1986, 321, 75-79.	27.8	1,284
8	Crystal structure of the $\mu$ -opioid receptor bound to a morphinan antagonist. <i>Nature</i> , 2012, 485, 321-326.	27.8	1,202
9	Functional Selectivity and Classical Concepts of Quantitative Pharmacology. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 320, 1-13.	2.5	997
10	Activation and allosteric modulation of a muscarinic acetylcholine receptor. <i>Nature</i> , 2013, 504, 101-106.	27.8	779
11	Structure-based discovery of opioid analgesics with reduced side effects. <i>Nature</i> , 2016, 537, 185-190.	27.8	744
12	Structural insights into $\mu$ -opioid receptor activation. <i>Nature</i> , 2015, 524, 315-321.	27.8	743
13	Structure and function of an irreversible agonist- $\beta_2$ adrenoceptor complex. <i>Nature</i> , 2011, 469, 236-240.	27.8	741
14	$\beta_2$ AR Signaling Required for Diet-Induced Thermogenesis and Obesity Resistance. <i>Science</i> , 2002, 297, 843-845.	12.6	738
15	The Molecular Basis of G Protein-Coupled Receptor Activation. <i>Annual Review of Biochemistry</i> , 2018, 87, 897-919.	11.1	734
16	The Dynamic Process of $\beta_2$ -Adrenergic Receptor Activation. <i>Cell</i> , 2013, 152, 532-542.	28.9	723
17	Structure and dynamics of the M3 muscarinic acetylcholine receptor. <i>Nature</i> , 2012, 482, 552-556.	27.8	714
18	Behavioural and cardiovascular effects of disrupting the angiotensin II type-2 receptor gene in mice. <i>Nature</i> , 1995, 377, 744-747.	27.8	713

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19	Structure of the human M2 muscarinic acetylcholine receptor bound to an antagonist. <i>Nature</i> , 2012, 482, 547-551.	27.8	706
20	Conformational complexity of G-protein-coupled receptors. <i>Trends in Pharmacological Sciences</i> , 2007, 28, 397-406.	8.7	646
21	Structure and dynamics of GPCR signaling complexes. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 4-12.	8.2	638
22	The genomic clone G-21 which resembles a $\beta^2$ -adrenergic receptor sequence encodes the 5-HT1A receptor. <i>Nature</i> , 1988, 335, 358-360.	27.8	611
23	Structure of the $\beta$ -opioid receptor bound to naltrindole. <i>Nature</i> , 2012, 485, 400-404.	27.8	607
24	A monomeric G protein-coupled receptor isolated in a high-density lipoprotein particle efficiently activates its G protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7682-7687.	7.1	593
25	A general protocol for the generation of Nanobodies for structural biology. <i>Nature Protocols</i> , 2014, 9, 674-693.	12.0	571
26	Structural Insights into the Dynamic Process of $\beta^2$ 2 -Adrenergic Receptor Signaling. <i>Cell</i> , 2015, 161, 1101-1111.	28.9	562
27	Structure of the $\mu$ -opioid receptor-Gi protein complex. <i>Nature</i> , 2018, 558, 547-552.	27.8	527
28	An intronless gene encoding a potential member of the family of receptors coupled to guanine nucleotide regulatory proteins. <i>Nature</i> , 1987, 329, 75-79.	27.8	513
29	G Protein-coupled Receptors. <i>Journal of Biological Chemistry</i> , 1998, 273, 17979-17982.	3.4	485
30	Two functionally distinct $\beta^2$ -adrenergic receptors regulate sympathetic neurotransmission. <i>Nature</i> , 1999, 402, 181-184.	27.8	479
31	G protein coupled receptor structure and activation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 794-807.	2.6	473
32	Cryo-EM structure of the activated GLP-1 receptor in complex with a G protein. <i>Nature</i> , 2017, 546, 248-253.	27.8	465
33	Removal of phosphorylation sites from the $\beta^2$ -adrenergic receptor delays onset of agonist-promoted desensitization. <i>Nature</i> , 1988, 333, 370-373.	27.8	439
34	Adrenaline-activated structure of $\beta^2$ -adrenoceptor stabilized by an engineered nanobody. <i>Nature</i> , 2013, 502, 575-579.	27.8	436
35	Visualization of arrestin recruitment by a G-protein-coupled receptor. <i>Nature</i> , 2014, 512, 218-222.	27.8	433
36	Ligand-specific regulation of the extracellular surface of a G-protein-coupled receptor. <i>Nature</i> , 2010, 463, 108-112.	27.8	432

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37	Phase-plate cryo-EM structure of a class B GPCRâ€“G-protein complex. Nature, 2017, 546, 118-123.	27.8	424
38	High-resolution crystal structure of human protease-activated receptor 1. Nature, 2012, 492, 387-392.	27.8	416
39	Maltoseâ€“neopentyl glycol (MNG) amphiphiles for solubilization, stabilization and crystallization of membrane proteins. Nature Methods, 2010, 7, 1003-1008.	19.0	397
40	Structure of active Î²-arrestin-1 bound to a G-protein-coupled receptor phosphopeptide. Nature, 2013, 497, 137-141.	27.8	393
41	Counting Low-Copy Number Proteins in a Single Cell. Science, 2007, 315, 81-84.	12.6	374
42	Functionally Different Agonists Induce Distinct Conformations in the G Protein Coupling Domain of the Î²2Adrenergic Receptor. Journal of Biological Chemistry, 2001, 276, 24433-24436.	3.4	347
43	Conformational changes in the G protein Gs induced by the Î²2 adrenergic receptor. Nature, 2011, 477, 611-615.	27.8	339
44	Muscarinic acetylcholine receptors: novel opportunities for drug development. Nature Reviews Drug Discovery, 2014, 13, 549-560.	46.4	337
45	Linkage of Î²1-adrenergic stimulation to apoptotic heart cell death through protein kinase Aâ€“independent activation of Ca2+/calmodulin kinase II. Journal of Clinical Investigation, 2003, 111, 617-625.	8.2	336
46	Structure of a Signaling Cannabinoid Receptor 1-G Protein Complex. Cell, 2019, 176, 448-458.e12.	28.9	323
47	Coupling ligand structure to specific conformational switches in the Î²2-adrenoceptor. , 2006, 2, 417-422.		318
48	Sequential Binding of Agonists to the Î²2 Adrenoceptor. Journal of Biological Chemistry, 2004, 279, 686-691.	3.4	311
49	Targeted Disruption of the Î²2 Adrenergic Receptor Gene. Journal of Biological Chemistry, 1999, 274, 16694-16700.	3.4	300
50	ERK Plays a Regulatory Role in Induction of LTP by Theta Frequency Stimulation and Its Modulation by Î²-Adrenergic Receptors. Neuron, 1999, 24, 715-726.	8.1	300
51	Gene targeting â€” homing in on Î±2-adrenoceptor-subtype function. Trends in Pharmacological Sciences, 1997, 18, 211-219.	8.7	298
52	Abnormal Regulation of the Sympathetic Nervous System in Î±2A-Adrenergic Receptor Knockout Mice. Molecular Pharmacology, 1999, 56, 154-161.	2.3	296
53	Structure-based discovery of Î±2<sub>2</sub>-adrenergic receptor ligands. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6843-6848.	7.1	290
54	Allosteric nanobodies reveal the dynamic range and diverse mechanisms of G-protein-coupled receptor activation. Nature, 2016, 535, 448-452.	27.8	290

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55	Cloning, characterization, and expression of two angiotensin receptor (AT-1) isoforms from the mouse genome. <i>Biochemical and Biophysical Research Communications</i> , 1992, 185, 253-259.	2.1	283
56	Crystal structures of the M1 and M4 muscarinic acetylcholine receptors. <i>Nature</i> , 2016, 531, 335-340.	27.8	272
57	Single-molecule analysis of ligand efficacy in $\beta_2$ AR G-protein activation. <i>Nature</i> , 2017, 547, 68-73.	27.8	265
58	Structure of the neurotensin receptor 1 in complex with $\beta$ -arrestin 1. <i>Nature</i> , 2020, 579, 303-308.	27.8	260
59	Structural Instability of a Constitutively Active G Protein-coupled Receptor. <i>Journal of Biological Chemistry</i> , 1997, 272, 2587-2590.	3.4	259
60	Fluorescent Labeling of Purified $\beta_2$ Adrenergic Receptor. <i>Journal of Biological Chemistry</i> , 1995, 270, 28268-28275.	3.4	258
61	Structure-based drug screening for G-protein-coupled receptors. <i>Trends in Pharmacological Sciences</i> , 2012, 33, 268-272.	8.7	258
62	Allosteric regulation of G protein-coupled receptor activity by phospholipids. <i>Nature Chemical Biology</i> , 2016, 12, 35-39.	8.0	251
63	Structural basis for nucleotide exchange in heterotrimeric G proteins. <i>Science</i> , 2015, 348, 1361-1365.	12.6	250
64	Cardiovascular and Metabolic Alterations in Mice Lacking Both $\beta_1$ - and $\beta_2$ -Adrenergic Receptors. <i>Journal of Biological Chemistry</i> , 1999, 274, 16701-16708.	3.4	245
65	Structures of the M1 and M2 muscarinic acetylcholine receptor/G-protein complexes. <i>Science</i> , 2019, 364, 552-557.	12.6	244
66	Probing the $\beta_2$ Adrenoceptor Binding Site with Catechol Reveals Differences in Binding and Activation by Agonists and Partial Agonists. <i>Journal of Biological Chemistry</i> , 2005, 280, 22165-22171.	3.4	242
67	Allosteric coupling from G protein to the agonist-binding pocket in GPCRs. <i>Nature</i> , 2016, 535, 182-186.	27.8	235
68	Structural insights into the activation of metabotropic glutamate receptors. <i>Nature</i> , 2019, 566, 79-84.	27.8	233
69	Energy Landscapes as a Tool to Integrate GPCR Structure, Dynamics, and Function. <i>Physiology</i> , 2010, 25, 293-303.	3.1	227
70	Propagation of conformational changes during $\beta_4$ -opioid receptor activation. <i>Nature</i> , 2015, 524, 375-378.	27.8	227
71	Caveolar Localization Dictates Physiologic Signaling of $\beta_2$ -Adrenoceptors in Neonatal Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 34280-34286.	3.4	219
72	The effect of ligand efficacy on the formation and stability of a GPCR-G protein complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9501-9506.	7.1	218

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73	New G-protein-coupled receptor crystal structures: insights and limitations. Trends in Pharmacological Sciences, 2008, 29, 79-83.	8.7	217
74	Intracellular Trafficking of Angiotensin II and its AT <sub>1</sub> and AT <sub>2</sub> Receptors: Evidence for Selective Sorting of Receptor and Ligand. Molecular Endocrinology, 1997, 11, 1266-1277.	3.7	210
75	Structural flexibility of the G $\alpha$ s $\alpha$ -helical domain in the $\beta_2$ -adrenoceptor Gs complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16086-16091.	7.1	204
76	The role of protein dynamics in GPCR function: insights from the $\beta_2$ AR and rhodopsin. Current Opinion in Cell Biology, 2014, 27, 136-143.	5.4	204
77	Nanobodies to Study G Protein-Coupled Receptor Structure and Function. Annual Review of Pharmacology and Toxicology, 2017, 57, 19-37.	9.4	201
78	Conformational transitions of a neurotensin receptor $\alpha$ 1-Gi1 complex. Nature, 2019, 572, 80-85.	27.8	199
79	Angiotensin Analogs with Divergent Bias Stabilize Distinct Receptor Conformations. Cell, 2019, 176, 468-478.e11.	28.9	194
80	Myocyte Adrenoceptor Signaling Pathways. Science, 2003, 300, 1530-1532.	12.6	192
81	Mutation of the $\beta_2$ -Adrenoceptor Impairs Working Memory Performance and Annuls Cognitive Enhancement by Guanfacine. Journal of Neuroscience, 2002, 22, 8771-8777.	3.6	191
82	Subtype-Specific Intracellular Trafficking of $\beta_2$ -Adrenergic Receptors. Molecular Pharmacology, 1997, 51, 711-720.	2.3	184
83	A new era of GPCR structural and chemical biology. Nature Chemical Biology, 2012, 8, 670-673.	8.0	184
84	Ligand-regulated oligomerization of $\beta_2$ -adrenoceptors in a model lipid bilayer. EMBO Journal, 2009, 28, 3315-3328.	7.8	172
85	Adrenergic $\beta_2$ -Receptors Modulate the Acoustic Startle Reflex, Prepulse Inhibition, and Aggression in Mice. Journal of Neuroscience, 1998, 18, 3035-3042.	3.6	166
86	Assembly of a GPCR-G Protein Complex. Cell, 2019, 177, 1232-1242.e11.	28.9	163
87	Structural insights into adrenergic receptor function and pharmacology. Trends in Pharmacological Sciences, 2011, 32, 213-218.	8.7	160
88	Development of an antibody fragment that stabilizes GPCR/G-protein complexes. Nature Communications, 2018, 9, 3712.	12.8	157
89	The Role of Ligands on the Equilibria Between Functional States of a G Protein-Coupled Receptor. Journal of the American Chemical Society, 2013, 135, 9465-9474.	13.7	156
90	Structural insights into binding specificity, efficacy and bias of a $\beta_2$ AR partial agonist. Nature Chemical Biology, 2018, 14, 1059-1066.	8.0	155

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91	The Structural Basis of G-Protein-Coupled Receptor Signaling (Nobel Lecture). Angewandte Chemie - International Edition, 2013, 52, 6380-6388.	13.8	152
92	Genetic Alteration of $\beta_2$ -Adrenoceptor Expression in Mice: Influence on Locomotor, Hypothermic, and Neurochemical Effects of Dexmedetomidine, a Subtype-Nonselective $\beta_2$ -Adrenoceptor Agonist. Molecular Pharmacology, 1997, 51, 36-46.	2.3	149
93	Signaling from $\beta_1$ - and $\beta_2$ -adrenergic receptors is defined by differential interactions with PDE4. EMBO Journal, 2008, 27, 384-393.	7.8	148
94	Mechanism of intracellular allosteric $\beta_2$ AR antagonist revealed by X-ray crystal structure. Nature, 2017, 548, 480-484.	27.8	148
95	Cholesterol increases kinetic, energetic, and mechanical stability of the human $\beta_2$ -adrenergic receptor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3463-72.	7.1	142
96	Structure and Conformational Changes in the C-terminal Domain of the $\beta_2$ -Adrenoceptor. Journal of Biological Chemistry, 2007, 282, 13895-13905.	3.4	141
97	Skeletal muscle hypertrophy and anti-atrophy effects of clenbuterol are mediated by the $\beta_2$ -adrenergic receptor. Muscle and Nerve, 2002, 25, 729-734.	2.2	136
98	Structural and Functional Analysis of a $\beta_2$ -Adrenergic Receptor Complex with GRK5. Cell, 2017, 169, 407-421.e16.	28.9	132
99	Antinociceptive Action of Nitrous Oxide Is Mediated by Stimulation of Noradrenergic Neurons in the Brainstem and Activation of $\beta_2$ -Adrenoceptors. Journal of Neuroscience, 2000, 20, 9242-9251.	3.6	130
100	GPCR-G fusion proteins: molecular analysis of receptor-G-protein coupling. Trends in Pharmacological Sciences, 1999, 20, 383-389.	8.7	127
101	A monoclonal antibody for G protein-coupled receptor crystallography. Nature Methods, 2007, 4, 927-929.	19.0	125
102	Goniometer-based femtosecond crystallography with X-ray free electron lasers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17122-17127.	7.1	122
103	Regulation of $\beta_2$ -Adrenergic Receptor Function by Conformationally Selective Single-Domain Intrabodies. Molecular Pharmacology, 2014, 85, 472-481.	2.3	121
104	Structural Insights into the Process of GPCR-G Protein Complex Formation. Cell, 2019, 177, 1243-1251.e12.	28.9	121
105	A New Class of Amphiphiles Bearing Rigid Hydrophobic Groups for Solubilization and Stabilization of Membrane Proteins. Chemistry - A European Journal, 2012, 18, 9485-9490.	3.3	120
106	Phosphodiesterase 4D is required for $\beta_2$ adrenoceptor subtype-specific signaling in cardiac myocytes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 909-914.	7.1	116
107	Diverse GPCRs exhibit conserved water networks for stabilization and activation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3288-3293.	7.1	116
108	Crystal structure of the adenosine A <sub>2A</sub> receptor bound to an antagonist reveals a potential allosteric pocket. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2066-2071.	7.1	114

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109	$\beta$ 2-Adrenergic Receptor-induced p38 MAPK Activation Is Mediated by Protein Kinase A Rather than by Gi or G $\beta$ 3 in Adult Mouse Cardiomyocytes. Journal of Biological Chemistry, 2000, 275, 40635-40640.	3.4	113
110	N-Terminal T4 Lysozyme Fusion Facilitates Crystallization of a G Protein Coupled Receptor. PLoS ONE, 2012, 7, e46039.	2.5	112
111	Modified T4 Lysozyme Fusion Proteins Facilitate G Protein-Coupled Receptor Crystallogensis. Structure, 2014, 22, 1657-1664.	3.3	112
112	Antithetic regulation by $\beta$ 2-adrenergic receptors of Gq receptor signaling via phospholipase C underlies the airway $\beta$ 2-agonist paradox. Journal of Clinical Investigation, 2003, 112, 619-626.	8.2	112
113	A fluorescent probe designed for studying protein conformational change. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 965-970.	7.1	110
114	Effects of Guanine, Inosine, and Xanthine Nucleotides on $\beta$ 2-Adrenergic Receptor/G $\beta$ s Interactions: Evidence for Multiple Receptor Conformations. Molecular Pharmacology, 1999, 56, 348-358.	2.3	108
115	The Effect of pH on $\beta$ 2 Adrenoceptor Function. Journal of Biological Chemistry, 2000, 275, 3121-3127.	3.4	107
116	Imaging G protein-coupled receptors while quantifying their ligand-binding free-energy landscape. Nature Methods, 2015, 12, 845-851.	19.0	106
117	Transmembrane Regions V and VI of the Human Luteinizing Hormone Receptor Are Required for Constitutive Activation by a Mutation in the Third Intracellular Loop. Journal of Biological Chemistry, 1996, 271, 22470-22478.	3.4	105
118	Role of the $\beta$ 2B-Adrenergic Receptor in the Development of Salt-Induced Hypertension. Hypertension, 1999, 33, 14-17.	2.7	105
119	G Protein-Coupled Receptors: Functional and Mechanistic Insights Through Altered Gene Expression. Physiological Reviews, 1998, 78, 35-52.	28.8	104
120	Saving the Endangered Physician-Scientist – A Plan for Accelerating Medical Breakthroughs. New England Journal of Medicine, 2019, 381, 399-402.	27.0	104
121	Allosteric Modulation of $\beta$ 2-Adrenergic Receptor by Zn <sup>2+</sup> . Molecular Pharmacology, 2002, 61, 65-72.	2.3	103
122	Dosage-dependent switch from G protein-coupled to G protein-independent signaling by a GPCR. EMBO Journal, 2007, 26, 53-64.	7.8	103
123	Structural insights into differences in G protein activation by family A and family B GPCRs. Science, 2020, 369, .	12.6	103
124	How GPCR Phosphorylation Patterns Orchestrate Arrestin-Mediated Signaling. Cell, 2020, 183, 1813-1825.e18.	28.9	100
125	The PDZ Binding Motif of the $\beta$ 1 Adrenergic Receptor Modulates Receptor Trafficking and Signaling in Cardiac Myocytes. Journal of Biological Chemistry, 2002, 277, 33783-33790.	3.4	99
126	Activation of the Luteinizing Hormone Receptor Following Substitution of Ser-277 with Selective Hydrophobic Residues in the Ectodomain Hinge Region. Journal of Biological Chemistry, 2000, 275, 30264-30271.	3.4	96



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127	Differential Distribution of $\beta$ -Adrenergic Receptor Subtypes in Blood Vessels of Knockout Mice Lacking $\beta$ 1- or $\beta$ 2-Adrenergic Receptors. <i>Molecular Pharmacology</i> , 2001, 60, 955-962.	2.3	95
128	Role of Detergents in Conformational Exchange of a G Protein-coupled Receptor. <i>Journal of Biological Chemistry</i> , 2012, 287, 36305-36311.	3.4	94
129	Organization of $\beta$ -adrenoceptor signaling compartments by sympathetic innervation of cardiac myocytes. <i>Journal of Cell Biology</i> , 2007, 176, 521-533.	5.2	93
130	Conformational Dynamics of Single G Protein-Coupled Receptors in Solution. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13328-13338.	2.6	93
131	Crystal structure of the natural anion-conducting channelrhodopsin GtACR1. <i>Nature</i> , 2018, 561, 343-348.	27.8	93
132	Reconstitution of beta2-adrenoceptor-GTP-binding-protein interaction in Sf9 cells . High coupling efficiency in a beta2-adrenoceptor-Gsalpha fusion protein. <i>FEBS Journal</i> , 1998, 255, 369-382.	0.2	91
133	<i>In meso in situ</i> serial X-ray crystallography of soluble and membrane proteins at cryogenic temperatures. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 93-112.	2.3	91
134	The PDZ-binding motif of the $\beta$ 2-adrenoceptor is essential for physiologic signaling and trafficking in cardiac myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10776-10781.	7.1	88
135	Ligand-Specific Interactions Modulate Kinetic, Energetic, and Mechanical Properties of the Human $\beta$ 2 Adrenergic Receptor. <i>Structure</i> , 2012, 20, 1391-1402.	3.3	87
136	Tandem Facial Amphiphiles for Membrane Protein Stabilization. <i>Journal of the American Chemical Society</i> , 2010, 132, 16750-16752.	13.7	85
137	Identification of an Allosteric Binding Site for Zn <sup>2+</sup> on the $\beta$ 2 Adrenergic Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 352-356.	3.4	84
138	Covalent agonists for studying G protein-coupled receptor activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10744-10748.	7.1	82
139	Mechanism of $\beta$ 2 AR regulation by an intracellular positive allosteric modulator. <i>Science</i> , 2019, 364, 1283-1287.	12.6	82
140	Co-expression of Defective Luteinizing Hormone Receptor Fragments Partially Reconstitutes Ligand-induced Signal Generation. <i>Journal of Biological Chemistry</i> , 1997, 272, 25006-25012.	3.4	79
141	Activation of G Protein-Coupled Receptors. <i>Advances in Protein Chemistry</i> , 2007, 74, 137-166.	4.4	79
142	Glucose-Neopentyl Glycol (GNG) amphiphiles for membrane protein study. <i>Chemical Communications</i> , 2013, 49, 2287-2289.	4.1	79
143	INSIGHTS FROM IN VIVO MODIFICATION OF ADRENERGIC RECEPTOR GENE EXPRESSION. <i>Annual Review of Pharmacology and Toxicology</i> , 1998, 38, 351-373.	9.4	77
144	Structural basis for GLP-1 receptor activation by LY3502970, an orally active nonpeptide agonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29959-29967.	7.1	74

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145	G-protein activation by a metabotropic glutamate receptor. <i>Nature</i> , 2021, 595, 450-454.	27.8	73
146	Development and Characterization of Pepducins as Gs-biased Allosteric Agonists*. <i>Journal of Biological Chemistry</i> , 2014, 289, 35668-35684.	3.4	71
147	Arrangement of Transmembrane Domains in Adrenergic Receptors. <i>Journal of Biological Chemistry</i> , 1996, 271, 2387-2389.	3.4	70
148	A Novel Interaction between Adrenergic Receptors and the $\hat{1}\pm$ -Subunit of Eukaryotic Initiation Factor 2B. <i>Journal of Biological Chemistry</i> , 1997, 272, 19099-19102.	3.4	70
149	Structural mechanisms of selectivity and gating in anion channelrhodopsins. <i>Nature</i> , 2018, 561, 349-354.	27.8	67
150	An improved yeast surface display platform for the screening of nanobody immune libraries. <i>Scientific Reports</i> , 2019, 9, 382.	3.3	66
151	The Ectodomain of the Luteinizing Hormone Receptor Interacts with Exoloop 2 to Constrain the Transmembrane Region. <i>Journal of Biological Chemistry</i> , 2002, 277, 3958-3964.	3.4	65
152	Binding pathway determines norepinephrine selectivity for the human $\hat{1}^2$ 1AR over $\hat{1}^2$ 2AR. <i>Cell Research</i> , 2021, 31, 569-579.	12.0	65
153	Heterozygous $\hat{A}2A$ -adrenergic receptor mice unveil unique therapeutic benefits of partial agonists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12471-12476.	7.1	64
154	Nanoscale high-content analysis using compositional heterogeneities of single proteoliposomes. <i>Nature Methods</i> , 2014, 11, 931-934.	19.0	64
155	Identifying and quantifying two ligand-binding sites while imaging native human membrane receptors by AFM. <i>Nature Communications</i> , 2015, 6, 8857.	12.8	64
156	Structure-guided development of selective M3 muscarinic acetylcholine receptor antagonists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12046-12050.	7.1	64
157	High-density grids for efficient data collection from multiple crystals. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 2-11.	2.3	62
158	Functional Immobilization of a Ligand-Activated G-Protein-Coupled Receptor. <i>ChemBioChem</i> , 2002, 3, 993-998.	2.6	60
159	A genetically engineered cell-based biosensor for functional classification of agents. <i>Biosensors and Bioelectronics</i> , 2001, 16, 571-577.	10.1	59
160	Structural insights into the subtype-selective antagonist binding to the M2 muscarinic receptor. <i>Nature Chemical Biology</i> , 2018, 14, 1150-1158.	8.0	59
161	Conformational Complexity and Dynamics in a Muscarinic Receptor Revealed by NMR Spectroscopy. <i>Molecular Cell</i> , 2019, 75, 53-65.e7.	9.7	59
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