

Xavier Deupi

List of Publications by Year in descending order

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74
papers

7,015
citations

81900

39
h-index

74163

75
g-index

85
all docs

85
docs citations

85
times ranked

7210
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular signatures of G-protein-coupled receptors. <i>Nature</i> , 2013, 494, 185-194.	27.8	1,298
2	Conformational complexity of G-protein-coupled receptors. <i>Trends in Pharmacological Sciences</i> , 2007, 28, 397-406.	8.7	646
3	Coupling ligand structure to specific conformational switches in the β_2 -adrenoceptor. , 2006, 2, 417-422.		318
4	Tracking G-protein-coupled receptor activation using genetically encoded infrared probes. <i>Nature</i> , 2010, 464, 1386-1389.	27.8	245
5	Diverse activation pathways in class A GPCRs converge near the G-protein-coupling region. <i>Nature</i> , 2016, 536, 484-487.	27.8	245
6	Probing the β_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
7	Energy Landscapes as a Tool to Integrate GPCR Structure, Dynamics, and Function. <i>Physiology</i> , 2010, 25, 293-303.	3.1	227
8	Stabilized G protein binding site in the structure of constitutively active metarhodopsin-II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 119-124.	7.1	226
9	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
10	Structural insights into agonist-induced activation of G-protein-coupled receptors. <i>Current Opinion in Structural Biology</i> , 2011, 21, 541-551.	5.7	212
11	Serine and Threonine Residues Bend α -Helices in the β_1 Conformation. <i>Biophysical Journal</i> , 2000, 79, 2754-2760.	0.5	173
12	Structural insights into biased G protein-coupled receptor signaling revealed by fluorescence spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6733-6738.	7.1	173
13	Ligand-regulated oligomerization of β_2 -adrenoceptors in a model lipid bilayer. <i>EMBO Journal</i> , 2009, 28, 3315-3328.	7.8	172
14	Backbone NMR reveals allosteric signal transduction networks in the β_1 -adrenergic receptor. <i>Nature</i> , 2016, 530, 237-241.	27.8	155
15	The TXP Motif in the Second Transmembrane Helix of CCR5. <i>Journal of Biological Chemistry</i> , 2001, 276, 13217-13225.	3.4	118
16	The Role of Internal Water Molecules in the Structure and Function of the Rhodopsin Family of G Protein-Coupled Receptors. <i>ChemBioChem</i> , 2007, 8, 19-24.	2.6	118
17	Femtosecond-to-millisecond structural changes in a light-driven sodium pump. <i>Nature</i> , 2020, 583, 314-318.	27.8	115
18	An online resource for GPCR structure determination and analysis. <i>Nature Methods</i> , 2019, 16, 151-162.	19.0	108

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19	An Activation Switch in the Rhodopsin Family of G Protein-coupled Receptors. <i>Journal of Biological Chemistry</i> , 2005, 280, 17135-17141.	3.4	106
20	GPCRmd uncovers the dynamics of the 3D-GPCRome. <i>Nature Methods</i> , 2020, 17, 777-787.	19.0	90
21	Ser and Thr Residues Modulate the Conformation of Pro-Kinked Transmembrane $\hat{1}\pm$ -Helices. <i>Biophysical Journal</i> , 2004, 86, 105-115.	0.5	87
22	Distinct G protein-coupled receptor phosphorylation motifs modulate arrestin affinity and activation and global conformation. <i>Nature Communications</i> , 2019, 10, 1261.	12.8	86
23	Activation of CCR5 by Chemokines Involves an Aromatic Cluster between Transmembrane Helices 2 and 3. <i>Journal of Biological Chemistry</i> , 2003, 278, 1892-1903.	3.4	85
24	Activation of G Protein-coupled Receptors. <i>Advances in Protein Chemistry</i> , 2007, 74, 137-166.	4.4	79
25	Molecular Basis of Ligand Dissociation in $\hat{1}^2$ -Adrenergic Receptors. <i>PLoS ONE</i> , 2011, 6, e23815.	2.5	79
26	Insights into congenital stationary night blindness based on the structure of G90D rhodopsin. <i>EMBO Reports</i> , 2013, 14, 520-526.	4.5	79
27	Relation between sequence and structure in membrane proteins. <i>Bioinformatics</i> , 2013, 29, 1589-1592.	4.1	76
28	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centriole architecture. <i>Nature Cell Biology</i> , 2016, 18, 393-403.	10.3	73
29	Crystal structure of rhodopsin in complex with a mini-G _o sheds light on the principles of G protein selectivity. <i>Science Advances</i> , 2018, 4, eaat7052.	10.3	65
30	Coronin 1 Regulates Cognition and Behavior through Modulation of cAMP/Protein Kinase A Signaling. <i>PLoS Biology</i> , 2014, 12, e1001820.	5.6	62
31	A Structural Insight into the Reorientation of Transmembrane Domains 3 and 5 during Family A G Protein-Coupled Receptor Activation. <i>Molecular Pharmacology</i> , 2011, 79, 262-269.	2.3	58
32	Probing $\hat{G}\hat{1}\pm$ 1 protein activation at single amino acid resolution. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 686-694.	8.2	58
33	Functional map of arrestin-1 at single amino acid resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1825-1830.	7.1	56
34	Relevance of rhodopsin studies for GPCR activation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 674-682.	1.0	53
35	Cryo-EM structure of the rhodopsin- $\hat{G}\hat{1}\pm$ - $\hat{1}^2\hat{1}^3$ complex reveals binding of the rhodopsin C-terminal tail to the $\hat{g}\hat{1}^2$ subunit. <i>ELife</i> , 2019, 8, .	6.0	52
36	A Molecular Pharmacologist's Guide to G Protein-coupled Receptor Crystallography. <i>Molecular Pharmacology</i> , 2015, 88, 536-551.	2.3	50

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37	Design, Synthesis and Pharmacological Evaluation of 5-Hydroxytryptamine 1a Receptor Ligands to Explore the Three-Dimensional Structure of the Receptor. <i>Molecular Pharmacology</i> , 2002, 62, 15-21.	2.3	49
38	Crystal structure of jumping spider rhodopsin-1 as a light sensitive GPCR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14547-14556.	7.1	48
39	Structural Models of Class A G Protein-Coupled Receptors as a Tool for Drug Design: Insights on Transmembrane Bundle Plasticity. <i>Current Topics in Medicinal Chemistry</i> , 2007, 7, 991-998.	2.1	45
40	Conserved activation pathways in G-protein-coupled receptors. <i>Biochemical Society Transactions</i> , 2012, 40, 383-388.	3.4	43
41	Structural and Functional Characterization of Alternative Transmembrane Domain Conformations in VEGF Receptor 2 Activation. <i>Structure</i> , 2014, 22, 1077-1089.	3.3	43
42	Conformational activation of visual rhodopsin in native disc membranes. <i>Science Signaling</i> , 2015, 8, ra26.	3.6	37
43	Structural basis of the activation of the CC chemokine receptor 5 by a chemokine agonist. <i>Science Advances</i> , 2021, 7, .	10.3	36
44	Structural role of the T94I rhodopsin mutation in congenital stationary night blindness. <i>EMBO Reports</i> , 2016, 17, 1431-1440.	4.5	34
45	The counterionâ€™retinylidene Schiff base interaction of an invertebrate rhodopsin rearranges upon light activation. <i>Communications Biology</i> , 2019, 2, 180.	4.4	31
46	Influence of the Environment in the Conformation of Î±-Helices Studied by Protein Database Search and Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2002, 82, 3207-3213.	0.5	29
47	Influence of the gâ€™ conformation of Ser and Thr on the structure of transmembrane helices. <i>Journal of Structural Biology</i> , 2010, 169, 116-123.	2.8	27
48	The activation mechanism of chemokine receptor CCR5 involves common structural changes but a different network of interhelical interactions relative to rhodopsin. <i>Cellular Signalling</i> , 2007, 19, 1446-1456.	3.6	26
49	The DRF motif of CXCR6 as chemokine receptor adaptation to adhesion. <i>PLoS ONE</i> , 2017, 12, e0173486.	2.5	23
50	An experimental strategy to probe Gq contribution to signal transduction in living cells. <i>Journal of Biological Chemistry</i> , 2021, 296, 100472.	3.4	22
51	Triazolo-Peptidomimetics: Novel Radiolabeled Minigastrin Analogs for Improved Tumor Targeting. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4484-4495.	6.4	20
52	Convergent evolution of tertiary structure in rhodopsin visual proteins from vertebrates and box jellyfish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6201-6206.	7.1	19
53	The Two-Photon Reversible Reaction of the Bistable Jumping Spider Rhodopsin-1. <i>Biophysical Journal</i> , 2019, 116, 1248-1258.	0.5	18
54	Batch crystallization of rhodopsin for structural dynamics using an X-ray free-electron laser. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 856-860.	0.8	12

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55	Elucidating the Structure-Activity Relationship of the Pentaglutamic Acid Sequence of Minigastrin with Cholecystokinin Receptor Subtype 2. <i>Bioconjugate Chemistry</i> , 2019, 30, 657-666.	3.6	12
56	Characterization of a conformationally sensitive TOAC spin-labeled substance P. <i>Peptides</i> , 2008, 29, 1919-1929.	2.4	10
57	A stitch in time. <i>Nature Chemistry</i> , 2014, 6, 7-8.	13.6	10
58	Unraveling binding mechanism and kinetics of macrocyclic G β q protein inhibitors. <i>Pharmacological Research</i> , 2021, 173, 105880.	7.1	10
59	Structure of β -Adrenergic Receptors. <i>Methods in Enzymology</i> , 2013, 520, 117-151.	1.0	9
60	High-mass MALDI-MS unravels ligand-mediated G protein-coupling selectivity to GPCRs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
61	Selective Hydrolysis of 2,4-Diaminopyrimidine Systems: A Theoretical and Experimental Insight into an Old Rule. <i>Journal of Organic Chemistry</i> , 2001, 66, 192-199.	3.2	8
62	Charge-charge and cation- π interactions in ligand binding to G protein-coupled receptors. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 579-588.	1.4	8
63	Quantification of Structural Distortions in the Transmembrane Helices of GPCRs. <i>Methods in Molecular Biology</i> , 2012, 914, 219-235.	0.9	8
64	Arrestin-1 engineering facilitates complex stabilization with native rhodopsin. <i>Scientific Reports</i> , 2019, 9, 439.	3.3	8
65	GPCR-SAS: A web application for statistical analyses on G protein-coupled receptors sequences. <i>PLoS ONE</i> , 2018, 13, e0199843.	2.5	7
66	Ligands Stabilize Specific GPCR Conformations: But How?. <i>Structure</i> , 2012, 20, 1289-1290.	3.3	6
67	Retinal proteins - You can teach an old dog new tricks. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 531-532.	1.0	6
68	Distance-Dependent Cellular Uptake of Oligoproline-Based Homobivalent Ligands Targeting GPCRs - An Experimental and Computational Analysis. <i>Bioconjugate Chemistry</i> , 2020, 31, 2431-2438.	3.6	5
69	Exploring the signaling space of a GPCR using bivalent ligands with a rigid oligoproline backbone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	5
70	TMalphaDB and TMbetaDB: web servers to study the structural role of sequence motifs in α -helix and β -barrel domains of membrane proteins. <i>BMC Bioinformatics</i> , 2015, 16, 266.	2.6	4
71	Identification of Key Regions Mediating Human Melatonin Type 1 Receptor Functional Selectivity Revealed by Natural Variants. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 1614-1627.	4.9	4
72	Chimeric single α -helical domains as rigid fusion protein connections for protein nanotechnology and structural biology. <i>Structure</i> , 2022, 30, 95-106.e7.	3.3	4

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73	Structural Elements Directing G Proteins and $\hat{1}^2$ -Arrestin Interactions with the Human Melatonin Type 2 Receptor Revealed by Natural Variants. ACS Pharmacology and Translational Science, 2022, 5, 89-101.	4.9	2
74	Conformational Plasticity of GPCR Binding Sites. Contemporary Clinical Neuroscience, 2005, , 363-388.	0.3	1