

Oliver P Ernst

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6637051/oliver-p-ernst-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

5,130
citations

28
h-index

58
g-index

58
ext. papers

5,977
ext. citations

14.9
avg, IF

5.41
L-index

#	Paper	IF	Citations
54	Crystal structure of opsin in its G-protein-interacting conformation. <i>Nature</i> , 2008 , 455, 497-502	50.4	934
53	Microbial and animal rhodopsins: structures, functions, and molecular mechanisms. <i>Chemical Reviews</i> , 2014 , 114, 126-63	68.1	659
52	Crystal structure of rhodopsin bound to arrestin by femtosecond X-ray laser. <i>Nature</i> , 2015 , 523, 561-7	50.4	572
51	Crystal structure of metarhodopsin II. <i>Nature</i> , 2011 , 471, 651-5	50.4	544
50	High-resolution distance mapping in rhodopsin reveals the pattern of helix movement due to activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7439-44	11.5	385
49	Identification of Phosphorylation Codes for Arrestin Recruitment by G Protein-Coupled Receptors. <i>Cell</i> , 2017 , 170, 457-469.e13	56.2	225
48	Activation of the A2A adenosine G-protein-coupled receptor by conformational selection. <i>Nature</i> , 2016 , 533, 265-8	50.4	202
47	Monomeric G protein-coupled receptor rhodopsin in solution activates its G protein transducin at the diffusion limit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10859-64	11.5	183
46	Cryo-EM structure of human rhodopsin bound to an inhibitory G protein. <i>Nature</i> , 2018 , 558, 553-558	50.4	153
45	Local vibrational coherences drive the primary photochemistry of vision. <i>Nature Chemistry</i> , 2015 , 7, 980-67.6	123	
44	Crystallogensis of Membrane Proteins Mediated by Polymer-Bounded Lipid Nanodiscs. <i>Structure</i> , 2017 , 25, 384-392	5.2	105
43	Mechanistic insights into allosteric regulation of the A adenosine G protein-coupled receptor by physiological cations. <i>Nature Communications</i> , 2018 , 9, 1372	17.4	81
42	Constitutive phospholipid scramblase activity of a G protein-coupled receptor. <i>Nature Communications</i> , 2014 , 5, 5115	17.4	78
41	Structure of the glucagon receptor in complex with a glucagon analogue. <i>Nature</i> , 2018 , 553, 106-110	50.4	76
40	Low-dose fixed-target serial synchrotron crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017 , 73, 373-378	5.5	68
39	Conformational equilibria of light-activated rhodopsin in nanodiscs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3268-E3275	11.5	64
38	Opsin, a structural model for olfactory receptors?. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11021-4	16.4	55

37	Fixed target combined with spectral mapping: approaching 100% hit rates for serial crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016 , 72, 944-55	5.5	54
36	G- and G-coupled GPCRs show different modes of G-protein binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2383-2388	11.5	45
35	Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. <i>Nature Communications</i> , 2016 , 7, 12832	17.4	39
34	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14215-14230	5.4	34
33	Molecular assembly of rhodopsin with G protein-coupled receptor kinases. <i>Cell Research</i> , 2017 , 27, 728-747	14.7	32
32	The Primary Photochemistry of Vision Occurs at the Molecular Speed Limit. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 4040-4047	3.4	32
31	High-throughput in situ X-ray screening of and data collection from protein crystals at room temperature and under cryogenic conditions. <i>Nature Protocols</i> , 2018 , 13, 260-292	18.8	31
30	Phospholipid scrambling by rhodopsin. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1922-31	4.2	30
29	The photocycle and ultrafast vibrational dynamics of bacteriorhodopsin in lipid nanodiscs. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21310-20	3.6	28
28	Coupling of g proteins to reconstituted monomers and tetramers of the M2 muscarinic receptor. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24347-65	5.4	28
27	TakeTwo: an indexing algorithm suited to still images with known crystal parameters. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016 , 72, 956-65	5.5	28
26	X-ray Crystallographic Structure and Oligomerization of Gloeobacter Rhodopsin. <i>Scientific Reports</i> , 2019 , 9, 11283	4.9	26
25	Accessible virtual reality of biomolecular structural models using the Autodesk Molecule Viewer. <i>Nature Methods</i> , 2017 , 14, 1122-1123	21.6	24
24	Structural Basis of the Activation of Heterotrimeric Gs-Protein by Isoproterenol-Bound β Adrenergic Receptor. <i>Molecular Cell</i> , 2020 , 80, 59-71.e4	17.6	22
23	A Versatile System for High-Throughput In Situ X-ray Screening and Data Collection of Soluble and Membrane-Protein Crystals. <i>Crystal Growth and Design</i> , 2016 , 16, 6318-6326	3.5	21
22	Recent advances in biophysical studies of rhodopsins - Oligomerization, folding, and structure. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 1512-1521	4	20
21	Fixed-target serial oscillation crystallography at room temperature. <i>IUCrJ</i> , 2019 , 6, 305-316	4.7	16
20	Light-independent phospholipid scramblase activity of bacteriorhodopsin from Halobacterium salinarum. <i>Scientific Reports</i> , 2017 , 7, 9522	4.9	14

19	7TM Domain Structure of Adhesion GPCRs. <i>Handbook of Experimental Pharmacology</i> , 2016 , 234, 43-66	3.2	12
18	Serial femtosecond and serial synchrotron crystallography can yield data of equivalent quality: A systematic comparison. <i>Science Advances</i> , 2021 , 7,	14.3	12
17	Toward Precise Interpretation of DEER-Based Distance Distributions: Insights from Structural Characterization of V1 Spin-Labeled Side Chains. <i>Biochemistry</i> , 2016 , 55, 5256-63	3.2	11
16	Genetically Encoded Quinone Methides Enabling Rapid, Site-Specific, and Photocontrolled Protein Modification with Amine Reagents. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17057-17068	16.4	10
15	The crystal structures of a chloride-pumping microbial rhodopsin and its proton-pumping mutant illuminate proton transfer determinants. <i>Journal of Biological Chemistry</i> , 2020 , 295, 14793-14804	5.4	9
14	Rapid and facile recombinant expression of bovine rhodopsin in HEK293S GnTI(-) cells using a PiggyBac inducible system. <i>Methods in Enzymology</i> , 2015 , 556, 307-30	1.7	8
13	X-ray transparent microfluidic chips for high-throughput screening and optimization of membrane protein crystallization. <i>Biomicrofluidics</i> , 2017 , 11, 024118	3.2	6
12	Opsin, a Structural Model for Olfactory Receptors?. <i>Angewandte Chemie</i> , 2013 , 125, 11227-11230	3.6	5
11	Synthesis of Chiral Spin-Labeled Amino Acids. <i>Organic Letters</i> , 2019 , 21, 10149-10153	6.2	5
10	Excited-State Vibronic Dynamics of Bacteriorhodopsin from Two-Dimensional Electronic Photon Echo Spectroscopy and Multiconfigurational Quantum Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3889-3896	6.4	4
9	A Novel Polar Core and Weakly Fixed C-Tail in Squid Arrestin Provide New Insight into Interaction with Rhodopsin. <i>Journal of Molecular Biology</i> , 2018 , 430, 4102-4118	6.5	4
8	The effect of phosphorylation on arrestin-rhodopsin interaction in the squid visual system. <i>Journal of Neurochemistry</i> , 2015 , 135, 1129-39	6	4
7	Utilizing tagged paramagnetic shift reagents to monitor protein dynamics by NMR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 1555-1563	4	3
6	Stationary Phase EPR Spectroscopy for Monitoring Membrane Protein Refolding by Conformational Response. <i>Analytical Chemistry</i> , 2019 , 91, 1071-1079	7.8	3
5	Does ketamine target olfactory receptors in the brain?. <i>Science Signaling</i> , 2015 , 8, fs6	8.8	1
4	Structural evidence for visual arrestin priming via complexation of phosphoinositols. <i>Structure</i> , 2021 ,	5.2	1
3	Electron paramagnetic resonance spectroscopy on G-protein-coupled receptors: Adopting strategies from related model systems. <i>Current Opinion in Structural Biology</i> , 2021 , 69, 177-186	8.1	0
2	Vom Einsatz polymerbasierter Lipidnanodiscs sowie in situ-Methoden. <i>BioSpektrum</i> , 2017 , 23, 267-269	0.1	

- 1 3P035 Opsin, Structural Model for Olfactory Receptors(01A. Protein: Structure,Poster). *Seibutsu Butsuri*, **2013**, 53, S217

o