

Oliver P Ernst

List of Publications by Year in Descending Order

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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	Structural evidence for visual arrestin priming via complexation of phosphoinositols. <i>Structure</i> , 2021 ,	5.2	1
53	Serial femtosecond and serial synchrotron crystallography can yield data of equivalent quality: A systematic comparison. <i>Science Advances</i> , 2021 , 7,	14.3	12
52	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
51	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
50	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
49	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
48	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
47	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14215-14230	5.4	34
46	X-ray Crystallographic Structure and Oligomerization of Gloeobacter Rhodopsin. <i>Scientific Reports</i> , 2019 , 9, 11283	4.9	26
45	Fixed-target serial oscillation crystallography at room temperature. <i>IUCrJ</i> , 2019 , 6, 305-316	4.7	16
44	Synthesis of Chiral Spin-Labeled Amino Acids. <i>Organic Letters</i> , 2019 , 21, 10149-10153	6.2	5
43	Stationary Phase EPR Spectroscopy for Monitoring Membrane Protein Refolding by Conformational Response. <i>Analytical Chemistry</i> , 2019 , 91, 1071-1079	7.8	3
42	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
41	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
40	Structure of the glucagon receptor in complex with a glucagon analogue. <i>Nature</i> , 2018 , 553, 106-110	50.4	76
39	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
38	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

37	Cryo-EM structure of human rhodopsin bound to an inhibitory G protein. <i>Nature</i> , 2018 , 558, 553-558	50.4	153
36	Crystallogenesis of Membrane Proteins Mediated by Polymer-Bounded Lipid Nanodiscs. <i>Structure</i> , 2017 , 25, 384-392	5.2	105
35	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
34	X-ray transparent microfluidic chips for high-throughput screening and optimization of membrane protein crystallization. <i>Biomicrofluidics</i> , 2017 , 11, 024118	3.2	6
33	Molecular assembly of rhodopsin with G protein-coupled receptor kinases. <i>Cell Research</i> , 2017 , 27, 728-747	24.7	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	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
30	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
29	Light-independent phospholipid scramblase activity of bacteriorhodopsin from <i>Halobacterium salinarum</i> . <i>Scientific Reports</i> , 2017 , 7, 9522	4.9	14
28	Identification of Phosphorylation Codes for Arrestin Recruitment by G Protein-Coupled Receptors. <i>Cell</i> , 2017 , 170, 457-469.e13	56.2	225
27	Accessible virtual reality of biomolecular structural models using the Autodesk Molecule Viewer. <i>Nature Methods</i> , 2017 , 14, 1122-1123	21.6	24
26	Vom Einsatz polymerbasierter Lipidnanodiscs sowie in situ-Methoden. <i>BioSpektrum</i> , 2017 , 23, 267-269	0.1	
25	Low-dose fixed-target serial synchrotron crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017 , 73, 373-378	5.5	68
24	7TM Domain Structure of Adhesion GPCRs. <i>Handbook of Experimental Pharmacology</i> , 2016 , 234, 43-66	3.2	12
23	Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. <i>Nature Communications</i> , 2016 , 7, 12832	17.4	39
22	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
21	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
20	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

19	Activation of the A2A adenosine G-protein-coupled receptor by conformational selection. <i>Nature</i> , 2016 , 533, 265-8	50.4	202
18	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
17	Does ketamine target olfactory receptors in the brain?. <i>Science Signaling</i> , 2015 , 8, fs6	8.8	1
16	Phospholipid scrambling by rhodopsin. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1922-31	4.2	30
15	Crystal structure of rhodopsin bound to arrestin by femtosecond X-ray laser. <i>Nature</i> , 2015 , 523, 561-7	50.4	572
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	Local vibrational coherences drive the primary photochemistry of vision. <i>Nature Chemistry</i> , 2015 , 7, 980-67.6	67.6	123
12	The effect of phosphorylation on arrestin-rhodopsin interaction in the squid visual system. <i>Journal of Neurochemistry</i> , 2015 , 135, 1129-39	6	4
11	Microbial and animal rhodopsins: structures, functions, and molecular mechanisms. <i>Chemical Reviews</i> , 2014 , 114, 126-63	68.1	659
10	The photocycle and ultrafast vibrational dynamics of bacteriorhodopsin in lipid nanodiscs. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21310-20	3.6	28
9	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
8	Constitutive phospholipid scramblase activity of a G protein-coupled receptor. <i>Nature Communications</i> , 2014 , 5, 5115	17.4	78
7	Opsin, a structural model for olfactory receptors?. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11021-4	16.4	55
6	Opsin, a Structural Model for Olfactory Receptors?. <i>Angewandte Chemie</i> , 2013 , 125, 11227-11230	3.6	5
5	3P035 Opsin, Structural Model for Olfactory Receptors(01A. Protein: Structure,Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S217	0	
4	Crystal structure of metarhodopsin II. <i>Nature</i> , 2011 , 471, 651-5	50.4	544
3	Crystal structure of opsin in its G-protein-interacting conformation. <i>Nature</i> , 2008 , 455, 497-502	50.4	934
2	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

- 1 Monomeric G protein-coupled receptor rhodopsin in solution activates its G protein transducin at the diffusion limit. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 10859-64 11.5 183