

Martin Heck

List of Publications by Year in descending order

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33
papers

2,176
citations

257450

24
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Phototransduction gain at the G-protein, transducin, and effector protein, phosphodiesterase-6, stages in retinal rods. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8653-8654.	7.1	6
2	Mechanistic insights into the role of prenyl-binding protein PrBP/Î in membrane dissociation of phosphodiesterase 6. Nature Communications, 2018, 9, 90.	12.8	13
3	It takes two transducins to activate the cGMP-phosphodiesterase 6 in retinal rods. Open Biology, 2018, 8, .	3.6	34
4	Implications of dimeric activation of PDE6 for rod phototransduction. Open Biology, 2018, 8, .	3.6	20
5	Asymmetric properties of rod cGMP Phosphodiesterase 6 (PDE6): structural and functional analysis. BMC Pharmacology & Toxicology, 2015, 16, .	2.4	5
6	Response to Comment "Transient Complexes between Dark Rhodopsin and Transducin: Circumstantial Evidence or Physiological Necessity?" by AD. Dell'Orco and K.-W. Koch. Biophysical Journal, 2015, 108, 778-779.	0.5	3
7	Not Just Signal Shutoff: The Protective Role of Arrestin-1 in Rod Cells. Handbook of Experimental Pharmacology, 2014, 219, 101-116.	1.8	13
8	Explicit Spatiotemporal Simulation of Receptor-G Protein Coupling in Rod Cell Disk Membranes. Biophysical Journal, 2014, 107, 1042-1053.	0.5	38
9	Precision vs Flexibility in GPCR signaling. Journal of the American Chemical Society, 2013, 135, 12305-12312.	13.7	45
10	Effect of channel mutations on the uptake and release of the retinal ligand in opsin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5247-5252.	7.1	71
11	Distinct loops in arrestin differentially regulate ligand binding within the GPCR opsin. Nature Communications, 2012, 3, 995.	12.8	69
12	Alkylated Hydroxylamine Derivatives Eliminate Peripheral Retinylidene Schiff Bases but Cannot Enter the Retinal Binding Pocket of Light-Activated Rhodopsin. Biochemistry, 2011, 50, 7168-7176.	2.5	13
13	Arrestin-Rhodopsin Binding Stoichiometry in Isolated Rod Outer Segment Membranes Depends on the Percentage of Activated Receptors. Journal of Biological Chemistry, 2011, 286, 7359-7369.	3.4	43
14	A Ligand Channel through the G Protein Coupled Receptor Opsin. PLoS ONE, 2009, 4, e4382.	2.5	102
15	Structural and kinetic modeling of an activating helix switch in the rhodopsin-transducin interface. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10660-10665.	7.1	47
16	A G protein-coupled receptor at work: the rhodopsin model. Trends in Biochemical Sciences, 2009, 34, 540-552.	7.5	328
17	Helix Formation in Arrestin Accompanies Recognition of Photoactivated Rhodopsin. Biochemistry, 2009, 48, 10733-10742.	2.5	39
18	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, 10859-10864.	7.1	196

#	ARTICLE	IF	CITATIONS
19	Rhodopsinâ€™s transducin coupling: Role of the C-terminus in nucleotide exchange catalysis. <i>Vision Research</i> , 2006, 46, 4582-4593.	1.4	21
20	Signal Transfer from GPCRs to G Proteins. <i>Journal of Biological Chemistry</i> , 2006, 281, 30234-30241.	3.4	49
21	Sequence of Interactions in Receptor-G Protein Coupling. <i>Journal of Biological Chemistry</i> , 2004, 279, 24283-24290.	3.4	78
22	Transition of Rhodopsin into the Active Metarhodopsin II State Opens a New Light-induced Pathway Linked to Schiff Base Isomerization. <i>Journal of Biological Chemistry</i> , 2004, 279, 48102-48111.	3.4	39
23	Interaction with Transducin Depletes Metarhodopsin III. <i>Journal of Biological Chemistry</i> , 2004, 279, 48112-48119.	3.4	28
24	Secondary binding sites of retinoids in opsin: characterization and role in regeneration. <i>Vision Research</i> , 2003, 43, 3003-3010.	1.4	43
25	Signaling States of Rhodopsin. <i>Journal of Biological Chemistry</i> , 2003, 278, 3162-3169.	3.4	101
26	Ligand Channeling within a G-protein-coupled Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 24896-24903.	3.4	107
27	Signal Transduction in the Visual Cascade Involves Specific Lipid-Protein Interactions. <i>Journal of Biological Chemistry</i> , 2003, 278, 22853-22860.	3.4	33
28	Calcium-Dependent Assembly of Centrin-G-Protein Complex in Photoreceptor Cells. <i>Molecular and Cellular Biology</i> , 2002, 22, 2194-2203.	2.3	64
29	Maximal Rate and Nucleotide Dependence of Rhodopsin-catalyzed Transducin Activation. <i>Journal of Biological Chemistry</i> , 2001, 276, 10000-10009.	3.4	147
30	[22] Light scattering methods to monitor interactions between rhodopsin-containing membranes and soluble proteins. <i>Methods in Enzymology</i> , 2000, 315, 329-347.	1.0	25
31	Interaction of glutamic-acid-rich proteins with the cGMP signalling pathway in rod photoreceptors. <i>Nature</i> , 1999, 400, 761-766.	27.8	146
32	Molecular Determinants of the Reversible Membrane Anchorage of the G-Protein Transducinâ€™. <i>Biochemistry</i> , 1999, 38, 7950-7960.	2.5	51
33	G-protein-effector coupling: A real-time light-scattering assay for transducin-phosphodiesterase interaction. <i>Biochemistry</i> , 1993, 32, 8220-8227.	2.5	159