Ruud Hovius

List of Publications by Year
in descending order

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59 papers	3,316 citations	159585 30 h-index	149698 56 g-index
68 all docs	68 docs citations	68 times ranked	4417 citing authors

#	Article	IF	Citations
1	International Union of Basic and Clinical Pharmacology. CX. Classification of Receptors for 5-hydroxytryptamine; Pharmacology and Function. Pharmacological Reviews, 2021, 73, 310-520.	16.0	127
2	Structural mechanism of cGAS inhibition by theÂnucleosome. Nature, 2020, 587, 668-672.	27.8	157
3	Torsin ATPases influence chromatin interaction of the Torsin regulator LAP1. ELife, 2020, 9, .	6.0	17
4	A Chemogenetic Approach for the Optical Monitoring of Voltage in Neurons. Angewandte Chemie - International Edition, 2019, 58, 2341-2344.	13.8	34
5	A Chemogenetic Approach for the Optical Monitoring of Voltage in Neurons. Angewandte Chemie, 2019, 131, 2363-2366.	2.0	6
6	Genetic Algorithm Based Design and Experimental Characterization of a Highly Thermostable Metalloprotein. Journal of the American Chemical Society, 2018, 140, 4517-4521.	13.7	16
7	Expression, Biochemistry, and Stabilization with Camel Antibodies of Membrane Proteins: Case Study of the Mouse 5-HT3 Receptor. Methods in Molecular Biology, 2017, 1635, 139-168.	0.9	5
8	Evaluating Cellular Drug Uptake with Fluorescent Sensor Proteins. ACS Sensors, 2017, 2, 1191-1197.	7.8	20
9	Tetrahydrobiopterin Biosynthesis as a Potential Target of the Kynurenine Pathway Metabolite Xanthurenic Acid. Journal of Biological Chemistry, 2016, 291, 652-657.	3.4	45
10	Microfluidics: Microfluidic Single-Cell Analysis with Affinity Beads (Small 22/2015). Small, 2015, 11, 2606-2606.	10.0	0
11	Microfluidic Singleâ€Cell Analysis with Affinity Beads. Small, 2015, 11, 2607-2613.	10.0	9
12	Reduction of Neuropathic and Inflammatory Pain through Inhibition of the Tetrahydrobiopterin Pathway. Neuron, 2015, 86, 1393-1406.	8.1	101
13	A Fluorogenic Probe for SNAP-Tagged Plasma Membrane Proteins Based on the Solvatochromic Molecule Nile Red. ACS Chemical Biology, 2014, 9, 606-612.	3.4	85
14	Natural compounds boldine and menthol are antagonists of human 5â€‹scp›HT‹/scp›‹sub›3‹/sub› receptors: implications for treating gastrointestinal disorders. Neurogastroenterology and Motility, 2014, 26, 810-820.	3.0	48
15	Dithiol amino acids can structurally shape and enhance the ligand-binding properties of polypeptides. Nature Chemistry, 2014, 6, 1009-1016.	13.6	73
16	X-ray structure of the mouse serotonin 5-HT3 receptor. Nature, 2014, 512, 276-281.	27.8	358
17	Insertion of Nanoparticle Clusters into Vesicle Bilayers. ACS Nano, 2014, 8, 3451-3460.	14.6	82
18	Downscaling the Analysis of Complex Transmembrane Signaling Cascades to Closed Attoliter Volumes. PLoS ONE, 2013, 8, e70929.	2.5	12

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19	Characterization and Validation of Fluorescent Receptor Ligands: A Case Study of the Ionotropic Serotonin Receptor. Methods in Molecular Biology, 2013, 995, 161-178.	0.9	2
20	Cell-Derived Vesicles as a Minimal Cell Prototype. Biophysical Journal, 2012, 102, 515a.	0.5	0
21	Activation of G-Protein-Coupled Receptors in Cell-Derived Plasma Membranes Supported on Porous Beads. Journal of the American Chemical Society, 2011, 133, 16868-16874.	13.7	6
22	Serotonin receptor diversity in the human colon: Expression of serotonin type 3 receptor subunits 5â€HT3C, 5â€HT3D, and 5â€HT3E. Journal of Comparative Neurology, 2011, 519, 420-432.	1.6	43
23	Correlated Optical and Electrical Singleâ€Molecule Measurements Reveal Conformational Diffusion from Ligand Binding to Channel Gating in the Nicotinic Acetylcholine Receptor. ChemBioChem, 2011, 12, 2431-2434.	2.6	23
24	Acetylcholine Receptor Organization in Membrane Domains in Muscle Cells. Journal of Biological Chemistry, 2011, 286, 363-369.	3.4	11
25	Modulation of proton-induced current fluctuations in the human nicotinic acetylcholine receptor channel. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 76-89.	2.6	4
26	Fluorescent Epibatidine Agonists for Neuronal and Muscle-Type Nicotinic Acetylcholine Receptors. Angewandte Chemie - International Edition, 2007, 46, 3505-3508.	13.8	29
27	Repetitive Reversible Labeling of Proteins at Polyhistidine Sequences for Single-Molecule Imaging in Live Cells. ChemPhysChem, 2007, 8, 1221-1227.	2.1	41
28	Covalent labeling of cell-surface proteins for in-vivo FRET studies. FEBS Letters, 2006, 580, 1654-1658.	2.8	29
29	Functional asymmetry of transmembrane segments in nicotinic acetylcholine receptors. European Biophysics Journal, 2006, 35, 685-693.	2.2	12
30	FRET imaging reveals that functional neurokinin-1 receptors are monomeric and reside in membrane microdomains of live cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2138-2143.	7.1	218
31	Fluorescent Labelling of Membrane Proteins in Living Cells. , 2006, , 199-210.		2
32	Lipid-Coated Nanocrystals as Multifunctionalized Luminescent Scaffolds for Supramolecular Biological Assemblies. Angewandte Chemie - International Edition, 2005, 44, 1388-1392.	13.8	58
33	Synthesis of Nanoscopic Optical Fibers Using Lipid Membranes as Templates. Angewandte Chemie - International Edition, 2005, 44, 4957-4960.	13.8	6
34	Cover Picture: Synthesis of Nanoscopic Optical Fibers Using Lipid Membranes as Templates (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	13.8	0
35	Reversible Sequential-Binding Probe Receptor-Ligand Interactions in Single Cells. ChemBioChem, 2005, 6, 2187-2194.	2.6	14
36	Investigating Cellular Signaling Reactions in Single Attoliter Vesicles. Journal of the American Chemical Society, 2005, 127, 2908-2912.	13.7	129

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37	Reversible site-selective labeling of membrane proteins in live cells. Nature Biotechnology, 2004, 22, 440-444.	17.5	284
38	Highly Fluorescent Streptavidin-Coated CdSe Nanoparticles:Â Preparation in Water, Characterization, and Micropatterning. Langmuir, 2004, 20, 3828-3831.	3.5	87
39	Factors influencing fluorescence correlation spectroscopy measurements on membranes: simulations and experiments. Chemical Physics, 2003, 288, 171-186.	1.9	57
40	Ligand Binding to G Protein-Coupled Receptors in Tethered Cell Membranes. Langmuir, 2003, 19, 10925-10929.	3.5	41
41	Monitoring Expression and Clustering of the Ionotropic 5HT3Receptor in Plasma Membranes of Live Biological Cellsâ€. Biochemistry, 2003, 42, 877-884.	2.5	53
42	Downscaling Fourier Transform Infrared Spectroscopy to the Micrometer and Nanogram Scale:â€‰ Secondary Structure of Serotonin and Acetylcholine Receptors. Biochemistry, 2003, 42, 14017-14022.	2.5	9
43	Characterization of the Ligand-binding Site of the Serotonin 5-HT3 Receptor. Journal of Biological Chemistry, 2003, 278, 22709-22716.	3.4	35
44	Mapping the Antagonist Binding Site of the Serotonin Type 3 Receptor by Fluorescence Resonance Energy Transferâ€. Biochemistry, 2001, 40, 12237-12242.	2.5	15
45	In Vitro and In Vivo Ligand Binding to the 5HT3 Serotonin Receptor Characterised by Time-Resolved Fluorescence Spectroscopy. ChemBioChem, 2001, 2, 205-211.	2.6	7
46	Functional immobilisation of the nicotinic acetylcholine receptor in tethered lipid membranes. Biophysical Chemistry, 2000, 85, 141-152.	2.8	35
47	Fluorescence techniques: shedding light on ligandâ€“receptor interactions. Trends in Pharmacological Sciences, 2000, 21, 266-273.	8.7	96
48	Waveguide Fluorosensor for the Detection of Ligand-Receptor Interactions. , 2000, , 135-145.		0
49	Fluorescence Techniques for Fundamental and Applied Studies of Membrane Protein Receptors: The 5-HT, Serotonin Receptor. Journal of Receptor and Signal Transduction Research, 1999, 19, 533-545.	2.5	17
50	Transient-expression technologies, their application and scale-up: 5-HT3 serotonin receptor case study. Biochemical Society Transactions, 1999, 27, 956-960.	3.4	4
51	Screening Ligands for Membrane Protein Receptors by Total Internal Reflection Fluorescence:Â The 5-HT3Serotonin Receptor. Analytical Chemistry, 1998, 70, 1331-1338.	6.5	67
52	Ligand Binding to the Serotonin 5HT3Receptor Studied with a Novel Fluorescent Ligandâ€. Biochemistry, 1998, 37, 15850-15864.	2.5	66
53	Characterization of a Mouse Serotonin 5â€HT₃ Receptor Purified from Mammalian Cells. Journal of Neurochemistry, 1998, 70, 824-834.	3.9	46
54	Expression of Ligand-Gated Ion Channels with the Semliki Forest Virus Expression System. Journal of Receptor and Signal Transduction Research, 1997, 17, 115-126.	2.5	35

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55	Phospholipid asymmetry of the outer membrane of rat liver mitochondria. FEBS Letters, 1993, 330, 71-76.	2.8	88
56	Interaction of mitochondrial creatine kinase with model membranes A monolayer study. FEBS Letters, 1991, 281, 123-129.	2.8	53
57	The role of contact sites between inner and outer mitochondrial membrane in energy transfer. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1018, 229-233.	1.0	38
58	Improved methods to isolate and subfractionate rat liver mitochondria. Lipid composition of the inner and outer membrane. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1021, 217-226.	2.6	327
59	The phosphatidylcholine-transfer protein catalyzed import of phosphatidylcholine into isolated rat liver mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1025, 49-59.	2.6	16