Johannes Broichhagen

List of Publications by Year
in descending order

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61 papers	2,753 citations	257101 24 h-index	197535 49 g-index
86 all docs	86 docs citations	86 times ranked	3391 citing authors

#	Article	IF	Citations
1	A Roadmap to Success in Photopharmacology. Accounts of Chemical Research, 2015, 48, 1947-1960.	7.6	561
2	Beta Cell Hubs Dictate Pancreatic Islet Responses toÂGlucose. Cell Metabolism, 2016, 24, 389-401.	7.2	370
3	Strain-Promoted Alkyne Azide Cycloaddition for the Functionalization of Poly(amide)-Based Dendrons and Dendrimers. Journal of the American Chemical Society, 2010, 132, 3923-3931.	6.6	129
4	Optical control of insulin release using a photoswitchable sulfonylurea. Nature Communications, 2014, 5, 5116.	5.8	106
5	Orthogonal Optical Control of a G Protein-Coupled Receptor with a SNAP-Tethered Photochromic Ligand. ACS Central Science, 2015, 1, 383-393.	5.3	104
6	Super-resolution microscopy compatible fluorescent probes reveal endogenous glucagon-like peptide-1 receptor distribution and dynamics. Nature Communications, 2020, 11, 467.	5.8	88
7	Optical Control of Insulin Secretion Using an Incretin Switch. Angewandte Chemie - International Edition, 2015, 54, 15565-15569.	7.2	80
8	Optical Control of Acetylcholinesterase with a Tacrine Switch. Angewandte Chemie - International Edition, 2014, 53, 7657-7660.	7.2	79
9	Dual optical control and mechanistic insights into photoswitchable group II and III metabotropic glutamate receptors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3546-E3554.	3.3	72
10	Restoration of patterned vision with an engineered photoactivatable G protein-coupled receptor. Nature Communications, 2017, 8, 1862.	5.8	65
11	Branched Photoswitchable Tethered Ligands Enable Ultra-efficient Optical Control and Detection of G Protein-Coupled Receptors InÂVivo. Neuron, 2020, 105, 446-463.e13.	3.8	58
12	The in vivo chemistry of photoswitched tethered ligands. Current Opinion in Chemical Biology, 2014, 21, 121-127.	2.8	56
13	Genetically Targeted Optical Control of an Endogenous G Protein-Coupled Receptor. Journal of the American Chemical Society, 2019, 141, 11522-11530.	6.6	51
14	AzoCholine Enables Optical Control of Alpha 7 Nicotinic Acetylcholine Receptors in Neural Networks. ACS Chemical Neuroscience, 2015, 6, 701-707.	1.7	49
15	Allosteric Optical Control of a Class B Gâ€Proteinâ€Coupled Receptor. Angewandte Chemie - International Edition, 2016, 55, 5865-5868.	7.2	45
16	Optical control of GPR40 signalling in pancreatic Î²-cells. Chemical Science, 2017, 8, 7604-7610.	3.7	41
17	SNAP-Tagged Nanobodies Enable Reversible Optical Control of a G Protein-Coupled Receptor via a Remotely Tethered Photoswitchable Ligand. ACS Chemical Biology, 2018, 13, 2682-2688.	1.6	41
18	Optical tools for understanding the complexity of Î²-cell signalling and insulin release. Nature Reviews Endocrinology, 2018, 14, 721-737.	4.3	36

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19	Signalling, trafficking and glucoregulatory properties of glucagonâ€like peptideâ€1 receptor agonists exendinâ€4 and lixisenatide. British Journal of Pharmacology, 2020, 177, 3905-3923.	2.7	36
20	A fine-tuned azobenzene for enhanced photopharmacology inÂvivo. Cell Chemical Biology, 2021, 28, 1648-1663.e16.	2.5	35
21	Remote control of glucose homeostasis in vivo using photopharmacology. Scientific Reports, 2017, 7, 291.	1.6	33
22	GLP1R Attenuates Sympathetic Response to High Glucose via Carotid Body Inhibition. Circulation Research, 2022, 130, 694-707.	2.0	33
23	The Influence of Peptide Context on Signaling and Trafficking of Glucagon-like Peptide-1 Receptor Biased Agonists. ACS Pharmacology and Translational Science, 2020, 3, 345-360.	2.5	32
24	Potent Prearranged Positive Allosteric Modulators of the Glucagonâ€like Peptideâ€1 Receptor. ChemistryOpen, 2017, 6, 501-505.	0.9	31
25	A (+)â€Larixol Congener with High Affinity and Subtype Selectivity toward TRPC6. ChemMedChem, 2018, 13, 1028-1035.	1.6	31
26	Interrogating surface versus intracellular transmembrane receptor populations using cell-impermeable SNAP-tag substrates. Chemical Science, 2020, 11, 7871-7883.	3.7	30
27	A New Fluorogenic Small-Molecule Labeling Tool for Surface Diffusion Analysis and Advanced Fluorescence Imaging of Î²-Site Amyloid Precursor Protein-Cleaving Enzyme 1 Based on Silicone Rhodamine: SiR-BACE1. Journal of Medicinal Chemistry, 2018, 61, 6121-6139.	2.9	29
28	Ligand-Specific Factors Influencing GLP-1 Receptor Post-Endocytic Trafficking and Degradation in Pancreatic Beta Cells. International Journal of Molecular Sciences, 2020, 21, 8404.	1.8	28
29	Conditional and Reversible Activation of Class A and B G Protein-Coupled Receptors Using Tethered Pharmacology. ACS Central Science, 2018, 4, 166-179.	5.3	27
30	Optical Control of a Biological Reactionâ€“Diffusion System. Angewandte Chemie - International Edition, 2018, 57, 2362-2366.	7.2	25
31	Photohormones Enable Optical Control of the Peroxisome Proliferator-Activated Receptor Î³ (PPARÎ³). Journal of Medicinal Chemistry, 2020, 63, 10908-10920.	2.9	25
32	Azobenzene-based inhibitors of human carbonic anhydrase II. Beilstein Journal of Organic Chemistry, 2015, 11, 1129-1135.	1.3	24
33	Optical control of a receptor-linked guanylyl cyclase using a photoswitchable peptidic hormone. Chemical Science, 2017, 8, 4644-4653.	3.7	23
34	A Predictive Approach for the Optical Control of Carbonic Anhydrase II Activity. ACS Chemical Biology, 2018, 13, 793-800.	1.6	19
35	Differences in interactions between transmembrane domains tune the activation of metabotropic glutamate receptors. ELife, 2021, 10, .	2.8	18
36	Structural and compositional diversity in the kainate receptor family. Cell Reports, 2021, 37, 109891.	2.9	17

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37	N-Methyl deuterated rhodamines for protein labelling in sensitive fluorescence microscopy. Chemical Science, 2022, 13, 8605-8617.	3.7	16
38	Transformation of Receptor Tyrosine Kinases into Glutamate Receptors and Photoreceptors. Angewandte Chemie - International Edition, 2020, 59, 6720-6723.	7.2	13
39	Acylation of the Incretin Peptide Exendin-4 Directly Impacts Glucagon-Like Peptide-1 Receptor Signaling and Trafficking. Molecular Pharmacology, 2021, 100, 319-334.	1.0	13
40	Sulfonated red and far-red rhodamines to visualize SNAP- and Halo-tagged cell surface proteins. Organic and Biomolecular Chemistry, 2022, 20, 5967-5980.	1.5	12
41	Detection of cannabinoid receptor type 2 in native cells and zebrafish with a highly potent, cell-permeable fluorescent probe. Chemical Science, 2022, 13, 5539-5545.	3.7	12
42	Reagents and models for detecting endogenous GLP1R and GIPR. EBioMedicine, 2021, 74, 103739.	2.7	12
43	14-3-3Î¶ Constrains insulin secretion by regulating mitochondrial function in pancreatic Î² cells. JCI Insight, 2022, 7, .	2.3	11
44	Allosterische optische Steuerung eines Klasseâ€Bâ€Câ€Proteinâ€gekoppelten Rezeptors. Angewandte Chemie, 2016, 128, 5961-5965.	1.6	10
45	Photopharmacology for vision restoration. Current Opinion in Pharmacology, 2022, 65, 102259.	1.7	10
46	Bilirubin in a New Light. Angewandte Chemie - International Edition, 2013, 52, 13868-13870.	7.2	8
47	Evaluation of efficacy- versus affinity-driven agonism with biased GLP-1R ligands P5 and exendin-F1. Biochemical Pharmacology, 2021, 190, 114656.	2.0	8
48	SNAP-tag-enabled super-resolution imaging reveals constitutive and agonist-dependent trafficking of GPR56 in pancreatic Î²-cells. Molecular Metabolism, 2021, 53, 101285.	3.0	8
49	Optical Control of a Biological Reactionâ€“Diffusion System. Angewandte Chemie, 2018, 130, 2386-2390.	1.6	7
50	Unusual mode of dimerization of retinitis pigmentosa-associated F220C rhodopsin. Scientific Reports, 2021, 11, 10536.	1.6	7
51	Sequential in vivo labeling of insulin secretory granule pools inINS-SNAPtransgenic pigs. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
52	Advances in tethered photopharmacology for precise optical control of signaling proteins. Current Opinion in Pharmacology, 2022, 63, 102196.	1.7	7
53	Photocaged Hoechst Enables Subnuclear Visualization and Cell Selective Staining of DNA in vivo. ChemBioChem, 2021, 22, 548-556.	1.3	6
54	Expanded LUXendin Color Palette for GLP1R Detection and Visualization In Vitro and In Vivo. Jacs Au, 2022, 2, 1007-1017.	3.6	6

#	Article	IF	Citations
55	Optical Regulation of Class C GPCRs by Photoswitchable Orthogonal Remotely Tethered Ligands. Methods in Molecular Biology, 2019, 1947, 103-136.	0.4	5
56	Chemical Biology Tools To Investigate Malaria Parasites. ChemBioChem, 2021, 22, 2219-2236.	1.3	5
57	Cholinergic Photopharmacology â€“ Controlling nicotinic and muscarinic Acetylcholine Receptors with Photoswitchable Molecules. FASEB Journal, 2015, 29, 933.5.	0.2	1
58	Crystal structure of (E)-1,2-bis(4-bromo-2,6-difluorophenyl)diazene. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, o459-o460.	0.2	1
59	Transformation of Receptor Tyrosine Kinases into Glutamate Receptors and Photoreceptors. Angewandte Chemie, 2020, 132, 6786-6789.	1.6	0
60	A Family of Photoswitchable Metabotropic Glutamate Receptors for Highâ€Efficiency Optical Interrogation of Specific Receptor Populations in vivo. FASEB Journal, 2019, 33, 503.20.	0.2	0
61	Branched Photoswitchable Tethered Ligands for Optical Interrogation of Metabotropic Glutamate Receptorâ€Mediated Modulation of Prefrontal Cortex Circuits. FASEB Journal, 2020, 34, 1-1.	0.2	0