

Andreas Mglich

List of Publications by Citations

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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.

65
papers

3,482
citations

27
h-index

59
g-index

76
ext. papers

3,989
ext. citations

9
avg, IF

5.72
L-index

#	Paper	IF	Citations
65	Structure and signaling mechanism of Per-ARNT-Sim domains. <i>Structure</i> , 2009 , 17, 1282-94	5.2	364
64	Structure and function of plant photoreceptors. <i>Annual Review of Plant Biology</i> , 2010 , 61, 21-47	30.7	357
63	Design and signaling mechanism of light-regulated histidine kinases. <i>Journal of Molecular Biology</i> , 2009 , 385, 1433-44	6.5	275
62	End-to-end distance distributions and intrachain diffusion constants in unfolded polypeptide chains indicate intramolecular hydrogen bond formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12394-9	11.5	213
61	Structural basis for light-dependent signaling in the dimeric LOV domain of the photosensor YtvA. <i>Journal of Molecular Biology</i> , 2007 , 373, 112-26	6.5	191
60	Engineered photoreceptors as novel optogenetic tools. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 1286-300	4.2	166
59	From dusk till dawn: one-plasmid systems for light-regulated gene expression. <i>Journal of Molecular Biology</i> , 2012 , 416, 534-42	6.5	155
58	Effect of proline and glycine residues on dynamics and barriers of loop formation in polypeptide chains. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3346-52	16.4	150
57	Full-length structure of a sensor histidine kinase pinpoints coaxial coiled coils as signal transducers and modulators. <i>Structure</i> , 2013 , 21, 1127-36	5.2	140
56	Engineering of a red-light-activated human cAMP/cGMP-specific phosphodiesterase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8803-8	11.5	132
55	Molecular basis for the effect of urea and guanidinium chloride on the dynamics of unfolded polypeptide chains. <i>Journal of Molecular Biology</i> , 2005 , 345, 153-62	6.5	116
54	Blue-Light Receptors for Optogenetics. <i>Chemical Reviews</i> , 2018 , 118, 10659-10709	68.1	109
53	Channelrhodopsin engineering and exploration of new optogenetic tools. <i>Nature Methods</i> , 2011 , 8, 39-42	11.6	89
52	Very fast folding and association of a trimerization domain from bacteriophage T4 fibrin. <i>Journal of Molecular Biology</i> , 2004 , 337, 905-15	6.5	84
51	Photoreceptor engineering. <i>Frontiers in Molecular Biosciences</i> , 2015 , 2, 30	5.6	83
50	Engineering of temperature- and light-switchable Cas9 variants. <i>Nucleic Acids Research</i> , 2016 , 44, 10003-10014	14.70	70
49	Addition at the molecular level: signal integration in designed Per-ARNT-Sim receptor proteins. <i>Journal of Molecular Biology</i> , 2010 , 400, 477-86	6.5	66

48	Signal transduction in light-oxygen-voltage receptors lacking the adduct-forming cysteine residue. <i>Nature Communications</i> , 2015 , 6, 10079	17.4	61
47	A blue light receptor that mediates RNA binding and translational regulation. <i>Nature Chemical Biology</i> , 2019 , 15, 1085-1092	11.7	42
46	Biochemical and structural insights into substrate binding and catalytic mechanism of mammalian poly(A) polymerase. <i>Journal of Molecular Biology</i> , 2004 , 341, 911-25	6.5	42
45	Sequential conformational transitions and helical supercoiling regulate a sensor histidine kinase. <i>Nature Communications</i> , 2017 , 8, 284	17.4	39
44	Photoactivatable Mussel-Based Underwater Adhesive Proteins by an Expanded Genetic Code. <i>ChemBioChem</i> , 2017 , 18, 1819-1823	3.8	39
43	NMR-spectroscopic mapping of an engineered cavity in the I14A mutant of HPr from <i>Staphylococcus carnosus</i> using xenon. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8726-7	16.4	37
42	Switchable Cas9. <i>Current Opinion in Biotechnology</i> , 2017 , 48, 119-126	11.4	32
41	Signal transduction in photoreceptor histidine kinases. <i>Protein Science</i> , 2019 , 28, 1923-1946	6.3	32
40	Library-Aided Probing of Linker Determinants in Hybrid Photoreceptors. <i>ACS Synthetic Biology</i> , 2016 , 5, 1117-1126	5.7	32
39	Time-Resolved X-Ray Solution Scattering Reveals the Structural Photoactivation of a Light-Oxygen-Voltage Photoreceptor. <i>Structure</i> , 2017 , 25, 933-938.e3	5.2	27
38	Upgrading a microplate reader for photobiology and all-optical experiments. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 270-9	4.2	27
37	Charting the signal trajectory in a light-oxygen-voltage photoreceptor by random mutagenesis and covariance analysis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 29345-55	5.4	26
36	Cyanobacteriochromes in full color and three dimensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 806-7	11.5	23
35	Biophysical, mutational, and functional investigation of the chromophore-binding pocket of light-oxygen-voltage photoreceptors. <i>ACS Synthetic Biology</i> , 2014 , 3, 811-9	5.7	20
34	An Open-Source, Cross-Platform Resource for Nonlinear Least-Squares Curve Fitting. <i>Journal of Chemical Education</i> , 2018 , 95, 2273-2278	2.4	17
33	Computational Aminoacyl-tRNA Synthetase Library Design for Photocaged Tyrosine. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
32	Nanobody-directed targeting of optogenetic tools to study signaling in the primary cilium. <i>ELife</i> , 2020 , 9,	8.9	16
31	Blue-light reception through quaternary transitions. <i>Scientific Reports</i> , 2017 , 7, 1385	4.9	15

30	Optogenetic Control by Pulsed Illumination. <i>ChemBioChem</i> , 2018 , 19, 1296-1304	3.8	15
29	Deconstructing and repurposing the light-regulated interplay between phytochromes and interacting factors. <i>Communications Biology</i> , 2019 , 2, 448	6.7	15
28	Characterization and engineering of photoactivated adenylyl cyclases. <i>Biological Chemistry</i> , 2019 , 400, 429-441	4.5	15
27	Revisiting and Redesigning Light-Activated Cyclic-Mononucleotide Phosphodiesterases. <i>Journal of Molecular Biology</i> , 2019 , 431, 3029-3045	6.5	14
26	A restraint molecular dynamics and simulated annealing approach for protein homology modeling utilizing mean angles. <i>BMC Bioinformatics</i> , 2005 , 6, 91	3.6	14
25	Cyclic Nucleotide-Specific Optogenetics Highlights Compartmentalization of the Sperm Flagellum into cAMP Microdomains. <i>Cells</i> , 2019 , 8,	7.9	12
24	A structural model for the full-length blue light-sensing protein YtvA from <i>Bacillus subtilis</i> , based on EPR spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1855-63	4.2	12
23	Solution structure of the active-centre mutant I14A of the histidine-containing phosphocarrier protein from <i>Staphylococcus carnosus</i> . <i>FEBS Journal</i> , 2004 , 271, 4815-24		9
22	Determination of residual dipolar couplings in homonuclear MOCCA-SIAM experiments. <i>Journal of Biomolecular NMR</i> , 2002 , 23, 211-9	3	8
21	PERMOL: restraint-based protein homology modeling using DYANA or CNS. <i>Bioinformatics</i> , 2005 , 21, 2110-1	7.2	7
20	Optoribogenetic control of regulatory RNA molecules. <i>Nature Communications</i> , 2020 , 11, 4825	17.4	6
19	Identification of an atypical interaction site in the BTB domain of the MYC-interacting zinc-finger protein 1. <i>Structure</i> , 2021 , 29, 1230-1240.e5	5.2	6
18	A Light-Oxygen-Voltage Receptor Integrates Light and Temperature. <i>Journal of Molecular Biology</i> , 2021 , 433, 167107	6.5	5
17	A Fluorometric Activity Assay for Light-Regulated Cyclic-Nucleotide-Monophosphate Actuators. <i>Methods in Molecular Biology</i> , 2016 , 1408, 93-105	1.4	4
16	Comparative analysis of two paradigm bacteriophytochromes reveals opposite functionalities in two-component signaling. <i>Nature Communications</i> , 2021 , 12, 4394	17.4	4
15	The Association Kinetics Encode the Light Dependence of Arabidopsis Phytochrome B Interactions. <i>Journal of Molecular Biology</i> , 2020 , 432, 4327-4340	6.5	3
14	Guidelines for Photoreceptor Engineering. <i>Methods in Molecular Biology</i> , 2016 , 1408, 389-403	1.4	3
13	Illuminating a Phytochrome Paradigm ▯ Light-Activated Phosphatase in Two-Component Signaling Uncovered		3

12	Two-photon conversion of a bacterial phytochrome. <i>Biophysical Journal</i> , 2021 , 120, 964-974	2.9	3
11	Pulsatile illumination for photobiology and optogenetics. <i>Methods in Enzymology</i> , 2019 , 624, 227-248	1.7	2
10	Primer-Aided Truncation for the Creation of Hybrid Proteins. <i>Methods in Molecular Biology</i> , 2017 , 1596, 287-304	1.4	1
9	Lichtregulierte Genexpression. <i>BioSpektrum</i> , 2013 , 19, 149-151	0.1	1
8	Photobiologically Directed Assembly of Gold Nanoparticles. <i>Advanced Biology</i> , 2021 , 5, e2000179		1
7	Nanobody-directed targeting of optogenetic tools to study signaling in the primary cilium		1
6	Cryo-Electron Microscopy of Phytochrome A in Its Pr State Reveals Head-to-Head Homodimeric Architecture. <i>Frontiers in Plant Science</i> , 2021 , 12, 663751	6.2	1
5	Signal transduction in light-oxygen-voltage receptors lacking the active-site glutamine.. <i>Nature Communications</i> , 2022 , 13, 2618	17.4	1
4	Biochemie 2016: Optische Kontrolle zellulärer Prozesse. <i>Nachrichten Aus Der Chemie</i> , 2017 , 65, 309-313	0.1	
3	Signaltransduktion einer lichtregulierten Sensorhistidinkinase. <i>Nachrichten Aus Der Chemie</i> , 2018 , 66, 123-126	0.1	
2	Die Kontrolle zyklischer Nukleotide mittels Licht. <i>BioSpektrum</i> , 2017 , 23, 384-387	0.1	
1	Molecular mechanisms of signal transduction by PAS sensor proteins. <i>FASEB Journal</i> , 2009 , 23, LB282	0.9	