Norbert KrauÃ

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5807202/publications.pdf

Version: 2024-02-01

44 papers	6,572 citations	257450 24 h-index	243625 44 g-index

50 all docs	50 docs citations	50 times ranked	5421 citing authors

#	Article	IF	Citations
1	Three-dimensional structure of cyanobacterial photosystem I at 2.5â€‰Ã… resolution. Nature, 2001, 411, 909-917.	27.8	2,388
2	Crystal structure of opsin in its G-protein-interacting conformation. Nature, 2008, 455, 497-502.	27.8	1,019
3	Crystal structure of metarhodopsin II. Nature, 2011, 471, 651-655.	27.8	620
4	Structure of photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1507, 5-31.	1.0	422
5	Photosystem I at 4 Ã… resolution represents the first structural model of a joint photosynthetic reaction centre and core antenna system. Nature Structural Biology, 1996, 3, 965-973.	9.7	319
6	Photosystem I of Synechococcus elongatus at 4 Ã… resolution: comprehensive structure analysis. Journal of Molecular Biology, 1997, 272, 741-769.	4.2	281
7	A common ancestor for oxygenic and anoxygenic photosynthetic systems. Journal of Molecular Biology, 1998, 280, 297-314.	4.2	244
8	Intercellular Diffusion of a Fluorescent Sucrose Analog via the Septal Junctions in a Filamentous Cyanobacterium. MBio, 2015, 6, e02109.	4.1	90
9	Crystal structure of a prokaryotic (6-4) photolyase with an Fe-S cluster and a 6,7-dimethyl-8-ribityllumazine antenna chromophore. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7217-7222.	7.1	89
10	Photosystem I, an Improved Model of the Stromal Subunits PsaC, PsaD, and PsaE. Journal of Biological Chemistry, 1999, 274, 7351-7360.	3.4	87
11	.beta.-D-Cellotetraose Hemihydrate as a Structural Model for Cellulose II. An X-ray Diffraction Study. Journal of the American Chemical Society, 1995, 117, 11397-11406.	13.7	80
12	Localization of Two Phylloquinones, QK and QKâ€², in an Improved Electron Density Map of Photosystem I at 4-Ã… Resolution. Journal of Biological Chemistry, 1999, 274, 7361-7367.	3.4	74
13	Structure of Photosystem I: Suggestions on the docking sites for plastocyanin, ferredoxin and the coordination of P700. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1187, 99-105.	1.0	72
14	Relevance of the diastereotopic ligation of magnesium atoms of chlorophylls in Photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1556, 197-207.	1.0	64
15	Chromophore Heterogeneity and Photoconversion in Phytochrome Crystals and Solution Studied by Resonance Raman Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 4753-4755.	13.8	64
16	Assembly of Protein Subunits within the Stromal Ridge of Photosystem I. Structural Changes between Unbound and Sequentially PS I-bound Polypeptides and Correlated Changes of the Magnetic Properties of the Terminal Iron Sulfur Clusters. Journal of Molecular Biology, 2003, 327, 671-697.	4.2	63
17	Structural snapshot of a bacterial phytochrome in its functional intermediate state. Nature Communications, 2018, 9, 4912.	12.8	62
18	Molecular orbital study of the primary electron donor P700 of photosystem I based on a recent X-ray single crystal structure analysis. Chemical Physics, 2003, 294, 483-499.	1.9	58

#	Article	IF	Citations
19	The assembly of protein subunits and cofactors in photosystem I. Current Opinion in Structural Biology, 2002, 12, 244-254.	5.7	50
20	The Class III Cyclobutane Pyrimidine Dimer Photolyase Structure Reveals a New Antenna Chromophore Binding Site and Alternative Photoreduction Pathways. Journal of Biological Chemistry, 2015, 290, 11504-11514.	3.4	46
21	The Crystal Structures of the N-terminal Photosensory Core Module of Agrobacterium Phytochrome Agp1 as Parallel and Anti-parallel Dimers. Journal of Biological Chemistry, 2016, 291, 20674-20691.	3.4	41
22	Lightâ€Induced Conformational Changes of the Chromophore and the Protein in Phytochromes: Bacterial Phytochromes as Model Systems. ChemPhysChem, 2010, 11, 1090-1105.	2.1	39
23	Key Amino Acids in the Bacterial (6-4) Photolyase PhrB from Agrobacterium fabrum. PLoS ONE, 2015, 10, e0140955.	2.5	32
24	Crystallization and preliminary X-ray crystallographic analysis of the N-terminal photosensory module of phytochrome Agp1, a biliverdin-binding photoreceptor from Agrobacterium tumefaciens. Journal of Structural Biology, 2006, 153, 97-102.	2.8	29
25	Lipids in the Structure of Photosystem I, Photosystem II and the Cytochrome b 6 f Complex. Advances in Photosynthesis and Respiration, 2009, , 203-242.	1.0	24
26	The structural organization of the PsaC protein in Photosystem I from single crystal EPR and X-ray crystallographic studies. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1319, 199-213.	1.0	23
27	Phytochromes from Agrobacterium fabrum. Photochemistry and Photobiology, 2017, 93, 642-655.	2.5	23
28	The structure of the antiâ€câ€myc antibody 9E10 Fab fragment/epitope peptide complex reveals a novel binding mode dominated by the heavy chain hypervariable loops. Proteins: Structure, Function and Bioinformatics, 2008, 73, 552-565.	2.6	21
29	Two hybrid histidine kinases, TcsB and the phytochrome FphA, are involved in temperature sensing in Aspergillus nidulans. Molecular Microbiology, 2019, 112, 1814-1830.	2.5	20
30	Functional role of an unusual tyrosine residue in the electron transfer chain of a prokaryotic (6â€“4) photolyase. Chemical Science, 2018, 9, 1259-1272.	7.4	17
31	Two aspartate residues close to the lesion binding site of Agrobacterium (6â€4) photolyase are required for Mg 2+ stimulation of DNA repair. FEBS Journal, 2019, 286, 1765-1779.	4.7	15
32	Insights into functional aspects of centrins from the structure of N-terminally extended mouse centrin 1. Vision Research, 2006, 46, 4568-4574.	1.4	14
33	Crystal Structures of Bacterial (6â€4) Photolyase Mutants with Impaired DNA Repair Activity. Photochemistry and Photobiology, 2017, 93, 304-314.	2.5	12
34	Fungal phytochrome chromophore biosynthesis at mitochondria. EMBO Journal, 2021, 40, e108083.	7.8	9
35	Divalent Cations Increase DNA Repair Activities of Bacterial (6â€4) Photolyases. Photochemistry and Photobiology, 2017, 93, 323-330.	2.5	8
36	Evidence for weak interaction between phytochromes Agp1 and Agp2 from AgrobacteriumÂfabrum. FEBS Letters, 2019, 593, 926-941.	2.8	7

#	Article	IF	Citations
37	Phytochromes in Agrobacterium fabrum. Frontiers in Plant Science, 2021, 12, 642801.	3.6	7
38	The involvement of type IV pili and the phytochrome CphA in gliding motility, lateral motility and photophobotaxis of the cyanobacterium Phormidium lacuna. PLoS ONE, 2022, 17, e0249509.	2.5	7
39	Oligomeric states in sodium ion-dependent regulation of cyanobacterial histidine kinase-2. Protoplasma, 2018, 255, 937-952.	2.1	5
40	Untersuchungen an Polypseudohalogeniden, VI / Studies on the Polypseudohalides, VI. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1989, 44, 637-640.	0.7	4
41	Phytochrome Mediated Responses in Agrobacterium fabrum: Growth, Motility and Plant Infection. Current Microbiology, 2021, 78, 2708-2719.	2.2	4
42	Untersuchungen an Polypseudohalogeniden, V[1] Darstellung und Kristallstruktur des Kaliumdicyanoiodats(I), K[I(CN)2] / Studies on the Polypseudohalides, V [1] Preparation and Crystal Structure of K[I(CN)2]. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1988, 43, 149-152.	0.7	3
43	Molecular Recognition: How Photosynthesis Anchors the Mobile Antenna. Trends in Plant Science, 2019, 24, 388-392.	8.8	3
44	Structure and Function of Cyanobacterial Photosystem I. , 0, , 23-64.		1