

Bernhard Loll

List of Publications by Year in descending order

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93
papers

6,296
citations

136885

32
h-index

69214

77
g-index

111
all docs

111
docs citations

111
times ranked

5790
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards complete cofactor arrangement in the 3.0 Å resolution structure of photosystem II. <i>Nature</i> , 2005, 438, 1040-1044.	13.7	1,801
2	Where Water Is Oxidized to Dioxygen: Structure of the Photosynthetic Mn ₄ Ca Cluster. <i>Science</i> , 2006, 314, 821-825.	6.0	782
3	X-ray damage to the Mn ₄ Ca complex in single crystals of photosystem II: A case study for metalloprotein crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12047-12052.	3.3	585
4	Crystal structure of cyanobacterial photosystem II at 3.2 Å resolution: a closer look at the Mn-cluster. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4733-4736.	1.3	290
5	Energetics of a Possible Proton Exit Pathway for Water Oxidation in Photosystem II. <i>Biochemistry</i> , 2006, 45, 2063-2071.	1.2	167
6	Active zone scaffolds differentially accumulate Unc13 isoforms to tune Ca ²⁺ channel-vesicle coupling. <i>Nature Neuroscience</i> , 2016, 19, 1311-1320.	7.1	166
7	Purification, characterisation and crystallisation of photosystem II from <i>Thermosynechococcus elongatus</i> cultivated in a new type of photobioreactor. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1706, 147-157.	0.5	144
8	Lipids in photosystem II: Interactions with protein and cofactors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 509-519.	0.5	120
9	How photosynthetic reaction centers control oxidation power in chlorophyll pairs P680, P700, and P870. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9855-9860.	3.3	104
10	Molecular and Structural Characterization of the PezAT Chromosomal Toxin-Antitoxin System of the Human Pathogen <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 19606-19618.	1.6	103
11	Structural Basis for the Action of an All-Purpose Transcription Anti-termination Factor. <i>Molecular Cell</i> , 2019, 74, 143-157.e5.	4.5	86
12	Redox Potentials of Chlorophylls in the Photosystem II Reaction Center. <i>Biochemistry</i> , 2005, 44, 4118-4124.	1.2	80
13	Steps toward translocation-independent RNA polymerase inactivation by terminator ATPase. <i>Science</i> , 2021, 371, .	6.0	78
14	A Conserved Kinase-Based Body-Temperature Sensor Globally Controls Alternative Splicing and Gene Expression. <i>Molecular Cell</i> , 2020, 78, 57-69.e4.	4.5	76
15	Structural basis for N-dependent processive transcription antitermination. <i>Nature Microbiology</i> , 2017, 2, 17062.	5.9	58
16	Towards a comprehensive understanding of the structural dynamics of a bacterial diterpene synthase during catalysis. <i>Nature Communications</i> , 2018, 9, 3971.	5.8	57
17	Snapshots of the RNA Processing Factor SCAF8 Bound to Different Phosphorylated Forms of the Carboxyl-terminal Domain of RNA Polymerase II. <i>Journal of Biological Chemistry</i> , 2008, 283, 22659-22669.	1.6	55
18	HLA-B27 Subtypes Differentially Associated with Disease Exhibit Conformational Differences in Solution. <i>Journal of Molecular Biology</i> , 2008, 376, 798-810.	2.0	53

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19	Presynaptic spinophilin tunes neurexin signalling to control active zone architecture and function. <i>Nature Communications</i> , 2015, 6, 8362.	5.8	51
20	Cyanobacterial Photosystem II at 3.2 Å... resolution – the plastoquinone binding pockets. <i>Photosynthesis Research</i> , 2005, 84, 153-159.	1.6	50
21	Conformational Dimorphism of Self-peptides and Molecular Mimicry in a Disease-associated HLA-B27 Subtype. <i>Journal of Biological Chemistry</i> , 2006, 281, 2306-2316.	1.6	49
22	The first structure of a bacterial diterpene cyclase: CotB2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1528-1537.	2.5	48
23	Cyclolization of D-Lysergic Acid Alkaloid Peptides. <i>Chemistry and Biology</i> , 2014, 21, 146-155.	6.2	45
24	Functional implications on the mechanism of the function of photosystem II including water oxidation based on the structure of photosystem II. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 1337-1345.	1.8	44
25	Crystal structure of Homo sapiens protein hp14.5. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 54, 797-800.	1.5	42
26	Structure of a Classical MHC Class I Molecule That Binds –Non-Classical– Ligands. <i>PLoS Biology</i> , 2010, 8, e1000557.	2.6	41
27	Structure-Based Mechanisms of a Molecular RNA Polymerase/Chaperone Machine Required for Ribosome Biosynthesis. <i>Molecular Cell</i> , 2020, 79, 1024-1036.e5.	4.5	41
28	Drep-2 is a novel synaptic protein important for learning and memory. <i>ELife</i> , 2014, 3, .	2.8	39
29	The Antenna System of Photosystem II From <i>Thermosynechococcus elongatus</i> at 3.2 Å... Resolution. <i>Photosynthesis Research</i> , 2005, 86, 175-184.	1.6	36
30	Increased Conformational Flexibility of HLA-B*27 Subtypes Associated With Ankylosing Spondylitis. <i>Arthritis and Rheumatology</i> , 2016, 68, 1172-1182.	2.9	36
31	Structure of the Mn4–Ca cluster as derived from X-ray diffraction. <i>Photosynthesis Research</i> , 2007, 92, 389-405.	1.6	35
32	Modeling of variant copies of subunit D1 in the structure of photosystem II from <i>Thermosynechococcus elongatus</i> . <i>Biological Chemistry</i> , 2008, 389, 609-617.	1.2	35
33	HLA-B27 heavy chains distinguished by a micropolymorphism exhibit differential flexibility. <i>Arthritis and Rheumatism</i> , 2010, 62, 978-987.	6.7	34
34	Bacterial Polysaccharide Specificity of the Pattern Recognition Receptor Langerin Is Highly Species-dependent. <i>Journal of Biological Chemistry</i> , 2017, 292, 862-871.	1.6	33
35	The P-Loop Domain of Yeast Clp1 Mediates Interactions Between CF IA and CPF Factors in Pre-mRNA 3' End Formation. <i>PLoS ONE</i> , 2011, 6, e29139.	1.1	33
36	Implications of Structural and Thermodynamic Studies of HLA-B27 Subtypes Exhibiting Differential Association with Ankylosing Spondylitis. <i>Advances in Experimental Medicine and Biology</i> , 2009, 649, 177-195.	0.8	32

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37	Fluorine teams up with water to restore inhibitor activity to mutant BPTI. <i>Chemical Science</i> , 2015, 6, 5246-5254.	3.7	32
38	Molecular insights into antibiotic resistance - how a binding protein traps albicidin. <i>Nature Communications</i> , 2018, 9, 3095.	5.8	32
39	The $\hat{\nu}$ subunit and NTPase HelD institute a two-pronged mechanism for RNA polymerase recycling. <i>Nature Communications</i> , 2020, 11, 6418.	5.8	32
40	Functional Role of C $\hat{\nu}$ â€œHâ€œO Hydrogen Bonds Between Transmembrane $\hat{\nu}$ -Helices in Photosystem I. <i>Journal of Molecular Biology</i> , 2003, 328, 737-747.	2.0	31
41	Function of two $\hat{\nu}$ -carotenes near the D1 and D2 proteins in photosystem II dimers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 79-87.	0.5	30
42	Crystal structure of the EndoG/EndoGI complex: mechanism of EndoG inhibition. <i>Nucleic Acids Research</i> , 2009, 37, 7312-7320.	6.5	29
43	<i>Rhodococcus erythropolis</i> Oleate Hydratase: a New Member in the Oleate Hydratase Family Treeâ€œBiochemical and Structural Studies. <i>ChemCatChem</i> , 2018, 10, 407-414.	1.8	29
44	Dynamics of free versus complexed $\hat{\nu}$ 2-microglobulin and the evolution of interfaces in MHC class I molecules. <i>Immunogenetics</i> , 2013, 65, 157-172.	1.2	27
45	RIM-binding protein couples synaptic vesicle recruitment to release sites. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	26
46	A high affinity RIM-binding protein/Aplip1 interaction prevents the formation of ectopic axonal active zones. <i>ELife</i> , 2015, 4, .	2.8	26
47	HLA class I-associated diseases with a suspected autoimmune etiology: HLA-B27 subtypes as a model system. <i>European Journal of Cell Biology</i> , 2012, 91, 274-286.	1.6	24
48	RNA Specificity and Regulation of Catalysis in the Eukaryotic Polynucleotide Kinase Clp1. <i>Molecular Cell</i> , 2014, 54, 975-986.	4.5	23
49	Thermostability and Ca ²⁺ -Binding Properties of Wild Type and Heterologously Expressed PsbO Protein from Cyanobacterial Photosystem IIâ€œ. <i>Biochemistry</i> , 2005, 44, 4691-4698.	1.2	22
50	Cationic State of Accessory Chlorophyll and Electron Transfer through Pheophytin to Plastoquinone in Photosystem II. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1964-1965.	7.2	21
51	Tuning electron transfer by ester-group of chlorophylls in bacterial photosynthetic reaction center. <i>FEBS Letters</i> , 2005, 579, 712-716.	1.3	20
52	Detailed Structureâ€œFunction Correlations of <i>Bacillus subtilis</i> Acetolactate Synthase. <i>ChemBioChem</i> , 2015, 16, 110-118.	1.3	20
53	The Impression of a Nonexisting Catalytic Effect: The Role of CotB2 in Guiding the Complex Biosynthesis of Cyclooctat-9-en-7-ol. <i>Journal of the American Chemical Society</i> , 2020, 142, 21562-21574.	6.6	20
54	Exchange catalysis by tapasin exploits conserved and allele-specific features of MHC-I molecules. <i>Nature Communications</i> , 2021, 12, 4236.	5.8	20

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55	Influence of inflammation-related changes on conformational characteristics of HLA-B*27 subtypes as detected by IR spectroscopy. <i>FEBS Journal</i> , 2011, 278, 1713-1727.	2.2	18
56	Current understanding and biotechnological application of the bacterial diterpene synthase CotB2. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2355-2368.	1.3	17
57	Entrapment of DNA in an intersubunit tunnel system of a single-stranded DNA-binding protein. <i>Nucleic Acids Research</i> , 2014, 42, 6698-6708.	6.5	15
58	Structural basis for the function of SuhB as a transcription factor in ribosomal RNA synthesis. <i>Nucleic Acids Research</i> , 2019, 47, 6488-6503.	6.5	15
59	Tracking Transient Conformational States of T4 Lysozyme at Room Temperature Combining X-ray Crystallography and Site-Directed Spin Labeling. <i>Journal of the American Chemical Society</i> , 2016, 138, 12868-12875.	6.6	13
60	Towards an understanding of oleate hydratases and their application in industrial processes. <i>Microbial Cell Factories</i> , 2022, 21, 58.	1.9	13
61	Production of Macrocyclic Sesqui- and Diterpenes in Heterologous Microbial Hosts: A Systems Approach to Harness Nature's Molecular Diversity. <i>ChemCatChem</i> , 2014, 6, 1142-1165.	1.8	11
62	Understanding the role of active site residues in CotB2 catalysis using a cluster model. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 50-59.	1.3	11
63	Structure of full-length transcription regulator CcpA in the apo form. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 732-736.	1.1	10
64	Ketonization of Proline Residues in the Peptide Chains of Actinomycins by a 4-Oxoproline Synthase. <i>ChemBioChem</i> , 2018, 19, 706-715.	1.3	10
65	Identification, characterization and molecular adaptation of class I redox systems for the production of hydroxylated diterpenoids. <i>Microbial Cell Factories</i> , 2016, 15, 86.	1.9	9
66	Tetracyanocorannulene - an Easily Accessible and Strongly Electron-Deficient Compound. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6338-6342.	1.2	9
67	Towards a sustainable generation of pseudopterosin-type bioactives. <i>Green Chemistry</i> , 2020, 22, 6033-6046.	4.6	9
68	A Structural View on the Stereospecificity of Plant Borneol-type Dehydrogenases. <i>ChemCatChem</i> , 2021, 13, 2262-2277.	1.8	9
69	Biotechnological potential and initial characterization of two novel sesquiterpene synthases from Basidiomycota <i>Coniophora puteana</i> for heterologous production of Î-cadinol. <i>Microbial Cell Factories</i> , 2022, 21, 64.	1.9	9
70	Metal-triggered conformational reorientation of a self-peptide bound to a disease-associated HLA-B*27 subtype. <i>Journal of Biological Chemistry</i> , 2019, 294, 13269-13279.	1.6	8
71	Fluorine-induced polarity increases inhibitory activity of BPTI towards chymotrypsin. <i>RSC Chemical Biology</i> , 2022, 3, 773-782.	2.0	8
72	Preliminary X-ray diffraction analysis of crystals from the recombinantly expressed human major histocompatibility antigen HLA-B*2704 in complex with a viral peptide and with a self-peptide. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 939-941.	0.7	7

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73	X-ray diffraction analysis of crystals from the human major histocompatibility antigen HLA-B*2706 in complex with a viral peptide and with a self-peptide. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 1097-1099.	0.7	7
74	Structure of the transcription regulator CcpA from <i>Lactococcus lactis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 431-436.	2.5	7
75	Coupled RNA polymerase II transcription and 3' end formation with yeast whole-cell extracts. <i>Rna</i> , 2010, 16, 2205-2217.	1.6	7
76	Comparative biophysical characterization of chicken β 2-microglobulin. <i>Biophysical Chemistry</i> , 2012, 167, 26-35.	1.5	7
77	Increased versatility despite reduced molecular complexity: evolution, structure and function of metazoan splicing factor PRPF39. <i>Nucleic Acids Research</i> , 2019, 47, 5867-5879.	6.5	7
78	A skipping rope translocation mechanism in a widespread family of DNA repair helicases. <i>Nucleic Acids Research</i> , 2021, 49, 504-518.	6.5	7
79	Conformational Plasticity of HLA-B27 Molecules Correlates Inversely With Efficiency of Negative T Cell Selection. <i>Frontiers in Immunology</i> , 2020, 11, 179.	2.2	6
80	Large-scale ratcheting in a bacterial DEAH/RHA-type RNA helicase that modulates antibiotics susceptibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	6
81	Loss of recognition by cross-reactive T cells and its relation to a C-terminus-induced conformational reorientation of an HLA-B*2705-bound peptide. <i>Protein Science</i> , 2011, 20, 278-290.	3.1	5
82	Structures of <i>Drosophila melanogaster</i> Rab2 and Rab3 bound to GMPPNP. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 34-40.	0.4	5
83	Combining EPR spectroscopy and X-ray crystallography to elucidate the structure and dynamics of conformationally constrained spin labels in T4 lysozyme single crystals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20723-20734.	1.3	5
84	Purification, crystallization and preliminary X-ray diffraction analysis of the human major histocompatibility antigen HLA-B*2703 complexed with a viral peptide and with a self-peptide. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 372-374.	0.7	4
85	Exon Inclusion Modulates Conformational Plasticity and Autoinhibition of the Intersectin 1 SH3A Domain. <i>Structure</i> , 2019, 27, 977-987.e5.	1.6	4
86	Molecular basis of antibiotic self-resistance in a bee larvae pathogen. <i>Nature Communications</i> , 2022, 13, 2349.	5.8	4
87	A cartilage-derived self peptide presented by HLA-B27 molecules? Comment on the article by Atagunduz et al. <i>Arthritis and Rheumatism</i> , 2005, 52, 2581-2582.	6.7	3
88	Exploring the catalytic cascade of cembranoid biosynthesis by combination of genetic engineering and molecular simulations. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1819-1829.	1.9	3
89	Internal Dynamics of the 3-Pyrroline-N-Oxide Ring in Spin-Labeled Proteins. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1113-1117.	2.1	2
90	A Snu114-GTP-Prp8 module forms a relay station for efficient splicing in yeast. <i>Nucleic Acids Research</i> , 2020, 48, 4572-4584.	6.5	2

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91	CryoEM analysis of small plant biocatalysts at sub-2Å resolution. Acta Crystallographica Section D: Structural Biology, 2022, 78, 113-123.	1.1	1
92	An Unusual Aspartic Acid Cluster in the Reovirus Attachment Fiber σ 1 Mediates Stability at Low pH and Preserves Trimeric Organization. Journal of Virology, 2022, , e0033122.	1.5	1
93	Combining Single Crystal Electron Paramagnetic Resonance and X-Ray Crystallography to Study the Orientation and Dynamics of MTSSL Spin Labels in T4 Lysozyme. Biophysical Journal, 2015, 108, 616a.	0.2	0