

# Johannes Sding

## List of Publications by Year in Descending Order

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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.

107  
papers

22,772  
citations

52  
h-index

118  
g-index

118  
ext. papers

30,103  
ext. citations

12  
avg, IF

7.3  
L-index

#	Paper	IF	Citations
107	Large-scale analysis of <i>Drosophila</i> core promoter function using synthetic promoters.. <i>Molecular Systems Biology</i> , <b>2022</b> , 18, e9816	12.2	1
106	Cln5 represents a new type of cysteine-based -depalmitoylase linked to neurodegeneration.. <i>Science Advances</i> , <b>2022</b> , 8, eabj8633	14.3	0
105	Evidence for additive and synergistic action of mammalian enhancers during cell fate determination. <i>ELife</i> , <b>2021</b> , 10,	8.9	16
104	Fast and sensitive taxonomic assignment to metagenomic contigs. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	17
103	Bayesian Markov models improve the prediction of binding motifs beyond first order. <i>NAR Genomics and Bioinformatics</i> , <b>2021</b> , 3, lqab026	3.7	0
102	SpacePHARER: Sensitive identification of phages from CRISPR spacers in prokaryotic hosts. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	8
101	Tejaas: reverse regression increases power for detecting trans-eQTLs. <i>Genome Biology</i> , <b>2021</b> , 22, 142	18.3	1
100	Going to extremes - a metagenomic journey into the dark matter of life. <i>FEMS Microbiology Letters</i> , <b>2021</b> , 368,	2.9	7
99	DescribePROT: database of amino acid-level protein structure and function predictions. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, D298-D308	20.1	11
98	Thermodynamic modeling reveals widespread multivalent binding by RNA-binding proteins. <i>Bioinformatics</i> , <b>2021</b> , 37, i308-i316	7.2	1
97	A High-Throughput Screen for Transcription Activation Domains Reveals Their Sequence Features and Permits Prediction by Deep Learning. <i>Molecular Cell</i> , <b>2020</b> , 78, 890-902.e6	17.6	23
96	Mechanisms for Active Regulation of Biomolecular Condensates. <i>Trends in Cell Biology</i> , <b>2020</b> , 30, 4-14	18.3	60
95	MetaEuk-sensitive, high-throughput gene discovery, and annotation for large-scale eukaryotic metagenomics. <i>Microbiome</i> , <b>2020</b> , 8, 48	16.6	29
94	Protein Sequence Analysis Using the MPI Bioinformatics Toolkit. <i>Current Protocols in Bioinformatics</i> , <b>2020</b> , 72, e108	24.2	109
93	HH-suite3 for fast remote homology detection and deep protein annotation. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 473	3.6	238
92	Protein-level assembly increases protein sequence recovery from metagenomic samples manyfold. <i>Nature Methods</i> , <b>2019</b> , 16, 603-606	21.6	84
91	PROSSTT: probabilistic simulation of single-cell RNA-seq data for complex differentiation processes. <i>Bioinformatics</i> , <b>2019</b> , 35, 3517-3519	7.2	22

90	Lysine/RNA-interactions drive and regulate biomolecular condensation. <i>Nature Communications</i> , <b>2019</b> , 10, 2909	17.4	80
89	MMseqs2 desktop and local web server app for fast, interactive sequence searches. <i>Bioinformatics</i> , <b>2019</b> , 35, 2856-2858	7.2	73
88	An analysis and evaluation of the WeFold collaborative for protein structure prediction and its pipelines in CASP11 and CASP12. <i>Scientific Reports</i> , <b>2018</b> , 8, 9939	4.9	16
87	The BaMM web server for de-novo motif discovery and regulatory sequence analysis. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, W215-W220	20.1	15
86	A Completely Reimplemented MPI Bioinformatics Toolkit with a New HHpred Server at its Core. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 2237-2243	6.5	1095
85	Bayesian multiple logistic regression for case-control GWAS. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007856	6	13
84	Synthetic protein alignments by CCMgen quantify noise in residue-residue contact prediction. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006526	5	12
83	Clustering huge protein sequence sets in linear time. <i>Nature Communications</i> , <b>2018</b> , 9, 2542	17.4	200
82	Big-data approaches to protein structure prediction. <i>Science</i> , <b>2017</b> , 355, 248-249	33.3	26
81	Uniclust databases of clustered and deeply annotated protein sequences and alignments. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D170-D176	20.1	199
80	Genome-wide Analysis of RNA Polymerase II Termination at Protein-Coding Genes. <i>Molecular Cell</i> , <b>2017</b> , 66, 38-49.e6	17.6	68
79	MMseqs2 enables sensitive protein sequence searching for the analysis of massive data sets. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 1026-1028	44.5	519
78	WISH: who is the host? Predicting prokaryotic hosts from metagenomic phage contigs. <i>Bioinformatics</i> , <b>2017</b> , 33, 3113-3114	7.2	92
77	Bayesian Markov models consistently outperform PWMs at predicting motifs in nucleotide sequences. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 6055-69	20.1	48
76	The MPI bioinformatics Toolkit as an integrative platform for advanced protein sequence and structure analysis. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, W410-5	20.1	291
75	Modulations of DNA Contacts by Linker Histones and Post-translational Modifications Determine the Mobility and Modifiability of Nucleosomal H3 Tails. <i>Molecular Cell</i> , <b>2016</b> , 61, 247-59	17.6	80
74	MMseqs software suite for fast and deep clustering and searching of large protein sequence sets. <i>Bioinformatics</i> , <b>2016</b> , 32, 1323-30	7.2	52
73	Context similarity scoring improves protein sequence alignments in the midnight zone. <i>Bioinformatics</i> , <b>2015</b> , 31, 674-81	7.2	10

72	Automatic Prediction of Protein 3D Structures by Probabilistic Multi-template Homology Modeling. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004343	5	78
71	bbcontacts: prediction of $\beta$ strand pairing from direct coupling patterns. <i>Bioinformatics</i> , <b>2015</b> , 31, 1729-37.2		28
70	A vocabulary of ancient peptides at the origin of folded proteins. <i>ELife</i> , <b>2015</b> , 4, e09410	8.9	124
69	CCMpred--fast and precise prediction of protein residue-residue contacts from correlated mutations. <i>Bioinformatics</i> , <b>2014</b> , 30, 3128-30	7.2	273
68	Universality of core promoter elements?. <i>Nature</i> , <b>2014</b> , 511, E11-2	50.4	7
67	In silico-Funktions- und Strukturvorhersagen bei Proteinen. <i>BioSpektrum</i> , <b>2014</b> , 20, 158-161	0.1	
66	Transcriptome maps of mRNP biogenesis factors define pre-mRNA recognition. <i>Molecular Cell</i> , <b>2014</b> , 55, 745-57	17.6	72
65	RECQL5 controls transcript elongation and suppresses genome instability associated with transcription stress. <i>Cell</i> , <b>2014</b> , 157, 1037-49	56.2	122
64	In vivo ligands of MDA5 and RIG-I in measles virus-infected cells. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004081	7.6	96
63	kClust: fast and sensitive clustering of large protein sequence databases. <i>BMC Bioinformatics</i> , <b>2013</b> , 14, 248	3.6	55
62	P-value-based regulatory motif discovery using positional weight matrices. <i>Genome Research</i> , <b>2013</b> , 23, 181-94	9.7	51
61	Recruitment of TREX to the transcription machinery by its direct binding to the phospho-CTD of RNA polymerase II. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003914	6	46
60	Eph receptors and ephrin class B ligands are expressed at tissue boundaries in <i>Hydra vulgaris</i> . <i>International Journal of Developmental Biology</i> , <b>2013</b> , 57, 759-65	1.9	10
59	DBIRD complex integrates alternative mRNA splicing with RNA polymerase II transcript elongation. <i>Nature</i> , <b>2012</b> , 484, 386-9	50.4	89
58	The MOF-containing NSL complex associates globally with housekeeping genes, but activates only a defined subset. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 1509-22	20.1	52
57	The XXmotif web server for exhausive, weight matrix-based motif discovery in nucleotide sequences. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, W104-9	20.1	36
56	Discriminative modelling of context-specific amino acid substitution probabilities. <i>Bioinformatics</i> , <b>2012</b> , 28, 3240-7	7.2	39
55	HHblits: lightning-fast iterative protein sequence searching by HMM-HMM alignment. <i>Nature Methods</i> , <b>2011</b> , 9, 173-5	21.6	1279

54	Fast, scalable generation of high-quality protein multiple sequence alignments using Clustal Omega. <i>Molecular Systems Biology</i> , <b>2011</b> , 7, 539	12.2	8587
53	The Mre11:Rad50 structure shows an ATP-dependent molecular clamp in DNA double-strand break repair. <i>Cell</i> , <b>2011</b> , 145, 54-66	56.2	157
52	Protein sequence comparison and fold recognition: progress and good-practice benchmarking. <i>Current Opinion in Structural Biology</i> , <b>2011</b> , 21, 404-11	8.1	55
51	Different binding properties and function of CXXC zinc finger domains in Dnmt1 and Tet1. <i>PLoS ONE</i> , <b>2011</b> , 6, e16627	3.7	73
50	A conserved GA element in TATA-less RNA polymerase II promoters. <i>PLoS ONE</i> , <b>2011</b> , 6, e27595	3.7	27
49	Uniform transitions of the general RNA polymerase II transcription complex. <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 1272-8	17.6	341
48	Of bits and bugs--on the use of bioinformatics and a bacterial crystal structure to solve a eukaryotic repeat-protein structure. <i>PLoS ONE</i> , <b>2010</b> , 5, e13402	3.7	19
47	Evolution of outer membrane beta-barrels from an ancestral beta beta hairpin. <i>Molecular Biology and Evolution</i> , <b>2010</b> , 27, 1348-58	8.3	76
46	Cryo-EM structure and rRNA model of a translating eukaryotic 80S ribosome at 5.5-A resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19748-53	11.5	158
45	The molecular cell death machinery in the simple cnidarian Hydra includes an expanded caspase family and pro- and anti-apoptotic Bcl-2 proteins. <i>Cell Research</i> , <b>2010</b> , 20, 812-25	24.7	49
44	A galaxy of folds. <i>Protein Science</i> , <b>2010</b> , 19, 124-30	6.3	53
43	Localization of eukaryote-specific ribosomal proteins in a 5.5-Å cryo-EM map of the 80S eukaryotic ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19754-9	11.5	112
42	Sequence context-specific profiles for homology searching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3770-5	11.5	136
41	Phospholipid scramblases and Tubby-like proteins belong to a new superfamily of membrane tethered transcription factors. <i>Bioinformatics</i> , <b>2009</b> , 25, 159-62	7.2	45
40	Fast and accurate automatic structure prediction with HHpred. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 77 Suppl 9, 128-32	4.2	338
39	HHomp--prediction and classification of outer membrane proteins. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, W446-51	4.6	78
38	Prediction of protein functional residues from sequence by probability density estimation. <i>Bioinformatics</i> , <b>2008</b> , 24, 613-20	7.2	104
37	De novo identification of highly diverged protein repeats by probabilistic consistency. <i>Bioinformatics</i> , <b>2008</b> , 24, 807-14	7.2	108

36	Genome-associated RNA polymerase II includes the dissociable Rpb4/7 subcomplex. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 26423-7	5.4	36
35	PDBalert: automatic, recurrent remote homology tracking and protein structure prediction. <i>BMC Structural Biology</i> , <b>2008</b> , 8, 51	2.7	5
34	Evolution of the beta-propeller fold. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 71, 795-803	4.2	114
33	On the origin of the histone fold. <i>BMC Structural Biology</i> , <b>2007</b> , 7, 17	2.7	34
32	TPRpred: a tool for prediction of TPR-, PPR- and SEL1-like repeats from protein sequences. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 2	3.6	159
31	ScbA from <i>Streptomyces coelicolor</i> A3(2) has homology to fatty acid synthases and is able to synthesize gamma-butyrolactones. <i>Microbiology (United Kingdom)</i> , <b>2007</b> , 153, 1394-1404	2.9	47
30	HHrep: de novo protein repeat detection and the origin of TIM barrels. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, W137-42	20.1	56
29	HHsenser: exhaustive transitive profile search using HMM-HMM comparison. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, W374-8	20.1	64
28	The MPI Bioinformatics Toolkit for protein sequence analysis. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, W335-9	20.1	233
27	Comparative analysis of coiled-coil prediction methods. <i>Journal of Structural Biology</i> , <b>2006</b> , 155, 140-5	3.4	128
26	Expression, crystallization and preliminary X-ray crystallographic studies of the outer membrane protein OmpW from <i>Escherichia coli</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2006</b> , 62, 415-8		28
25	REPPER--repeats and their periodicities in fibrous proteins. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, W239-43	20.1	86
24	AbrB-like transcription factors assume a swapped hairpin fold that is evolutionarily related to double-psi beta barrels. <i>Structure</i> , <b>2005</b> , 13, 919-28	5.2	73
23	Retroactive, a membrane-anchored extracellular protein related to vertebrate snake neurotoxin-like proteins, is required for cuticle organization in the larva of <i>Drosophila melanogaster</i> . <i>Developmental Dynamics</i> , <b>2005</b> , 233, 1056-63	2.9	38
22	The HHpred interactive server for protein homology detection and structure prediction. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, W244-8	20.1	2558
21	Protein homology detection by HMM-HMM comparison. <i>Bioinformatics</i> , <b>2005</b> , 21, 951-60	7.2	1860
20	More than the sum of their parts: on the evolution of proteins from peptides. <i>BioEssays</i> , <b>2003</b> , 25, 837-46	4.1	181
19	Three-body decay of a rubidium Bose-Einstein condensate. <i>Applied Physics B: Lasers and Optics</i> , <b>1999</b> , 69, 257-261	1.9	128

18	Strong evaporative cooling of a trapped cesium gas. <i>Optics Express</i> , <b>1998</b> , 2, 323-9	3.3	41
17	Giant Spin Relaxation of an Ultracold Cesium Gas. <i>Physical Review Letters</i> , <b>1998</b> , 80, 1869-1872	7.4	87
16	Is Bose-Einstein condensation of atomic cesium possible?. <i>Europhysics Letters</i> , <b>1998</b> , 44, 25-30	1.6	38
15	Short-Distance Atomic Beam Deceleration with a Stimulated Light Force. <i>Physical Review Letters</i> , <b>1997</b> , 78, 1420-1423	7.4	81
14	Gravitational laser trap for atoms with evanescent-wave cooling. <i>Optics Communications</i> , <b>1995</b> , 119, 652-662		97
13	Stimulated magneto-optical force in the dressed-atom picture. <i>Physical Review A</i> , <b>1994</b> , 50, 2517-2527	2.6	6
12	Coherent beam splitter for atoms based on a bichromatic standing light wave. <i>Optics Letters</i> , <b>1994</b> , 19, 658-60	3	49
11	Sub-Doppler manifestation of the magneto-optical radiation force. <i>Optics Communications</i> , <b>1993</b> , 98, 54-60	2	4
10	Observation of the Magneto-Optical Radiation Force by Laser Spectroscopy. <i>Europhysics Letters</i> , <b>1992</b> , 20, 101-106	1.6	11
9	Foldseek: fast and accurate protein structure search		7
8	Mechanisms of active regulation of biomolecular condensates		1
7	MMseqs2: sensitive protein sequence searching for the analysis of massive data sets		9
6	Clustering huge protein sequence sets in linear time		1
5	SpacePHARER: Sensitive identification of phages from CRISPR spacers in prokaryotic hosts		1
4	Fast and sensitive taxonomic assignment to metagenomic contigs		4
3	Protein-level assembly increases protein sequence recovery from metagenomic samples manifold		5
2	HH-suite3 for fast remote homology detection and deep protein annotation		10
1	MetaEuk: Sensitive, high-throughput gene discovery and annotation for large-scale eukaryotic metagenomics		1

