

# Aalt-Jan van Dijk

## List of Publications by Year in descending order

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79  
papers

5,526  
citations

101384

36  
h-index

85405

71  
g-index

90  
all docs

90  
docs citations

90  
times ranked

8364  
citing authors

#	ARTICLE	IF	CITATIONS
1	A large-scale evaluation of computational protein function prediction. <i>Nature Methods</i> , 2013, 10, 221-227.	9.0	789
2	HADDOCK versus HADDOCK: New features and performance of HADDOCK2.0 on the CAPRI targets. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 69, 726-733.	1.5	504
3	Rice cytochrome P450 MAX1 homologs catalyze distinct steps in strigolactone biosynthesis. <i>Nature Chemical Biology</i> , 2014, 10, 1028-1033.	3.9	340
4	An expanded evaluation of protein function prediction methods shows an improvement in accuracy. <i>Genome Biology</i> , 2016, 17, 184.	3.8	308
5	Arabidopsis Class I and Class II TCP Transcription Factors Regulate Jasmonic Acid Metabolism and Leaf Development Antagonistically. <i>Plant Physiology</i> , 2012, 159, 1511-1523.	2.3	279
6	SEPALLATA3: the 'glue' for MADS box transcription factor complex formation. <i>Genome Biology</i> , 2009, 10, R24.	13.9	250
7	Information-driven protein-DNA docking using HADDOCK: it is a matter of flexibility. <i>Nucleic Acids Research</i> , 2006, 34, 3317-3325.	6.5	169
8	Characterization of SOC1's Central Role in Flowering by the Identification of Its Upstream and Downstream Regulators. <i>Plant Physiology</i> , 2012, 160, 433-449.	2.3	169
9	Solvated docking: introducing water into the modelling of biomolecular complexes. <i>Bioinformatics</i> , 2006, 22, 2340-2347.	1.8	143
10	WHISCY: What information does surface conservation yield? Application to data-driven docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 479-489.	1.5	128
11	Machine learning in plant science and plant breeding. <i>IScience</i> , 2021, 24, 101890.	1.9	127
12	Data-driven docking for the study of biomolecular complexes. <i>FEBS Journal</i> , 2005, 272, 293-312.	2.2	125
13	Analysis of functional redundancies within the Arabidopsis TCP transcription factor family. <i>Journal of Experimental Botany</i> , 2013, 64, 5673-5685.	2.4	124
14	Towards recommendations for metadata and data handling in plant phenotyping. <i>Journal of Experimental Botany</i> , 2015, 66, 5417-5427.	2.4	116
15	Valencene synthase from the heartwood of <i>Pinus oocarpa</i> ( <i>Pinus</i> <i>allitropsis</i> ) Tj ETQq1 1 0.784314 rgBT /Ove 12, 174-182.	4.1	115
16	The (r)evolution of gene regulatory networks controlling Arabidopsis plant reproduction: a two-decade history. <i>Journal of Experimental Botany</i> , 2014, 65, 4731-4745.	2.4	106
17	Cross-Family Transcription Factor Interactions: An Additional Layer of Gene Regulation. <i>Trends in Plant Science</i> , 2017, 22, 66-80.	4.3	87
18	Bayesian Markov Random Field Analysis for Protein Function Prediction Based on Network Data. <i>PLoS ONE</i> , 2010, 5, e9293.	1.1	81

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19	Predicting the Impact of Alternative Splicing on Plant MADS Domain Protein Function. PLoS ONE, 2012, 7, e30524.	1.1	80
20	Various strategies of using residual dipolar couplings in NMR-driven protein docking: Application to Lys48-linked di-ubiquitin and validation against 15N-relaxation data. Proteins: Structure, Function and Bioinformatics, 2005, 60, 367-381.	1.5	78
21	Data-driven docking: HADDOCK's adventures in CAPRI. Proteins: Structure, Function and Bioinformatics, 2005, 60, 232-238.	1.5	74
22	N-glycan occupancy of Arabidopsis N-glycoproteins. Journal of Proteomics, 2013, 93, 343-355.	1.2	68
23	An analysis of characterized plant sesquiterpene synthases. Phytochemistry, 2019, 158, 157-165.	1.4	67
24	Sequence Motifs in MADS Transcription Factors Responsible for Specificity and Diversification of Protein-Protein Interaction. PLoS Computational Biology, 2010, 6, e1001017.	1.5	61
25	Divergent regulation of Arabidopsis SAUR genes: a focus on the SAUR10-clade. BMC Plant Biology, 2017, 17, 245.	1.6	60
26	Comparative analysis indicates that alternative splicing in plants has a limited role in functional expansion of the proteome. BMC Genomics, 2009, 10, 154.	1.2	50
27	N-glycoproteomics in plants: Perspectives and challenges. Journal of Proteomics, 2011, 74, 1463-1474.	1.2	50
28	Distribution, position and genomic characteristics of crossovers in tomato recombinant inbred lines derived from an interspecific cross between <i>Solanum lycopersicum</i> and <i>Solanum pimpinellifolium</i> . Plant Journal, 2017, 89, 554-564.	2.8	46
29	Impaired Peroxisome Proliferator-Activated Receptor $\beta$ Function through Mutation of a Conserved Salt Bridge (R425C) in Familial Partial Lipodystrophy. Molecular Endocrinology, 2007, 21, 1049-1065.	3.7	42
30	Simulation of Organ Patterning on the Floral Meristem Using a Polar Auxin Transport Model. PLoS ONE, 2012, 7, e28762.	1.1	41
31	Transcription Factor-Mediated Control of Anthocyanin Biosynthesis in Vegetative Tissues. Plant Physiology, 2018, 176, 1862-1878.	2.3	41
32	Prioritization of candidate genes in QTL regions based on associations between traits and biological processes. BMC Plant Biology, 2014, 14, 330.	1.6	40
33	A Quantitative and Dynamic Model of the Arabidopsis Flowering Time Gene Regulatory Network. PLoS ONE, 2015, 10, e0116973.	1.1	40
34	Combining NMR Relaxation with Chemical Shift Perturbation Data to Drive Protein-protein Docking. Journal of Biomolecular NMR, 2006, 34, 237-244.	1.6	39
35	Structural determinants of DNA recognition by plant MADS-domain transcription factors. Nucleic Acids Research, 2014, 42, 2138-2146.	6.5	39
36	Tulipa gesneriana and Lilium longiflorum PEBP Genes and Their Putative Roles in Flowering Time Control. Plant and Cell Physiology, 2018, 59, 90-106.	1.5	39

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37	Assessing the contribution of alternative splicing to proteome diversity in <i>Arabidopsis thaliana</i> using proteomics data. <i>BMC Plant Biology</i> , 2011, 11, 82.	1.6	37
38	An interactomics overview of the human and bovine milk proteome over lactation. <i>Proteome Science</i> , 2016, 15, 1.	0.7	37
39	Comparative analysis of binding patterns of MADS-domain proteins in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2018, 18, 131.	1.6	37
40	Designing Eukaryotic Gene Expression Regulation Using Machine Learning. <i>Trends in Biotechnology</i> , 2020, 38, 191-201.	4.9	30
41	CAPICE: a computational method for Consequence-Agnostic Pathogenicity Interpretation of Clinical Exome variations. <i>Genome Medicine</i> , 2020, 12, 75.	3.6	30
42	Genome-Wide Computational Function Prediction of <i>Arabidopsis</i> Proteins by Integration of Multiple Data Sources. <i>Plant Physiology</i> , 2011, 155, 271-281.	2.3	29
43	Modeling Protein-Protein Complexes Involved in the Cytochrome Oxidase Copper-Delivery Pathway. <i>Journal of Proteome Research</i> , 2007, 6, 1530-1539.	1.8	27
44	Solvated protein-protein docking using Kyte-Doolittle-based water preferences. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 510-518.	1.5	26
45	DNA sequence and shape are predictive for meiotic crossovers throughout the plant kingdom. <i>Plant Journal</i> , 2018, 95, 686-699.	2.8	24
46	Geometricus represents protein structures as shape-mers derived from moment invariants. <i>Bioinformatics</i> , 2020, 36, i718-i725.	1.8	24
47	Explicit Treatment of Water Molecules in Data-Driven Protein-Protein Docking: The Solvated HADDOCKing Approach. <i>Methods in Molecular Biology</i> , 2012, 819, 355-374.	0.4	20
48	Comprehensive phenotyping reveals interactions and functions of <i>Arabidopsis thaliana</i> TCP genes in yield determination. <i>Plant Journal</i> , 2019, 99, 316-328.	2.8	19
49	Caretta - A multiple protein structure alignment and feature extraction suite. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 981-992.	1.9	19
50	Continuous-time modeling of cell fate determination in <i>Arabidopsis</i> flowers. <i>BMC Systems Biology</i> , 2010, 4, 101.	3.0	18
51	PRI-CAT: a web-tool for the analysis, storage and visualization of plant ChIP-seq experiments. <i>Nucleic Acids Research</i> , 2011, 39, W524-W527.	6.5	14
52	Sequence-based analysis of protein degradation rates. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1593-1601.	1.5	14
53	Meiotic recombination profiling of interspecific hybrid F1 tomato pollen by linked read sequencing. <i>Plant Journal</i> , 2020, 102, 480-492.	2.8	14
54	Domestication Shapes Recombination Patterns in Tomato. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	14

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55	Floral pathway integrator gene expression mediates gradual transmission of environmental and endogenous cues to flowering time. <i>PeerJ</i> , 2017, 5, e3197.	0.9	14
56	Novel routes towards bioplastics from plants: elucidation of the methylperillate biosynthesis pathway from <i>Salvia dorisiana</i> trichomes. <i>Journal of Experimental Botany</i> , 2020, 71, 3052-3065.	2.4	13
57	Mutational Robustness of Gene Regulatory Networks. <i>PLoS ONE</i> , 2012, 7, e30591.	1.1	11
58	Integrating structure-based machine learning and co-evolution to investigate specificity in plant sesquiterpene synthases. <i>PLoS Computational Biology</i> , 2021, 17, e1008197.	1.5	11
59	The santalene synthase from <i>Cinnamomum camphora</i> : Reconstruction of a sesquiterpene synthase from a monoterpene synthase. <i>Archives of Biochemistry and Biophysics</i> , 2020, 695, 108647.	1.4	10
60	Correlated mutations via regularized multinomial regression. <i>BMC Bioinformatics</i> , 2011, 12, 444.	1.2	9
61	Gene Ontology consistent protein function prediction: the FALCON algorithm applied to six eukaryotic genomes. <i>Algorithms for Molecular Biology</i> , 2013, 8, 10.	0.3	9
62	Effect of ambient temperature fluctuation on the timing of the transition to the generative stage in cauliflower. <i>Environmental and Experimental Botany</i> , 2018, 155, 742-750.	2.0	9
63	Improved inference of intermolecular contacts through protein-protein interaction prediction using coevolutionary analysis. <i>Bioinformatics</i> , 2019, 35, 2036-2042.	1.8	9
64	Coevolution-based prediction of protein-protein interactions in polyketide biosynthetic assembly lines. <i>Bioinformatics</i> , 2020, 36, 4846-4853.	1.8	9
65	SLIDER: A Generic Metaheuristic for the Discovery of Correlated Motifs in Protein-Protein Interaction Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011, 8, 1344-1357.	1.9	8
66	A THP-1 Cell Line-Based Exploration of Immune Responses Toward Heat-Treated BLG. <i>Frontiers in Nutrition</i> , 2020, 7, 612397.	1.6	8
67	Biological process annotation of proteins across the plant kingdom. <i>Current Plant Biology</i> , 2014, 1, 73-82.	2.3	7
68	The KnownLeaf literature curation system captures knowledge about <i>Arabidopsis</i> leaf growth and development and facilitates integrated data mining. <i>Current Plant Biology</i> , 2015, 2, 1-11.	2.3	7
69	Chasing breeding footprints through structural variations in <i>Cucumis melo</i> and wild relatives. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, 1-12.	0.8	7
70	SLIDER: Mining Correlated Motifs in Protein-Protein Interaction Networks. , 2009, , .		5
71	Prior Biological Knowledge Improves Genomic Prediction of Growth-Related Traits in <i>Arabidopsis thaliana</i> . <i>Frontiers in Genetics</i> , 2020, 11, 609117.	1.1	4
72	Inferring the Gene Network Underlying the Branching of Tomato Inflorescence. <i>PLoS ONE</i> , 2014, 9, e89689.	1.1	4

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73	Selected proceedings of Machine Learning in Systems Biology: MLSB 2016. BMC Bioinformatics, 2016, 17, 437.	1.2	3
74	Conserved and variable correlated mutations in the plant MADS protein network. BMC Genomics, 2010, 11, 607.	1.2	2
75	Mining Minimal Motif Pair Sets Maximally Covering Interactions in a Protein-Protein Interaction Network. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 73-86.	1.9	2
76	Nuclear Magnetic Resonance-Based Modeling and Refinement of Protein Three-Dimensional Structures and Their Complexes. Methods in Molecular Biology, 2008, 443, 229-255.	0.4	2
77	Interactome-Wide Prediction of Protein-Protein Binding Sites Reveals Effects of Protein Sequence Variation in Arabidopsis thaliana. PLoS ONE, 2012, 7, e47022.	1.1	1
78	Integrating two patterning processes in the flower. Plant Signaling and Behavior, 2012, 7, 682-684.	1.2	0
79	Similarities between plant traits based on their connection to underlying gene functions. PLoS ONE, 2017, 12, e0182097.	1.1	0