

# Joost Thomas van Dongen

## List of Publications by Year in descending order

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74  
papers

10,046  
citations

38742

50  
h-index

79698

73  
g-index

76  
all docs

76  
docs citations

76  
times ranked

10704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remobilization of pollutants during extreme flood events poses severe risks to human and environmental health. <i>Journal of Hazardous Materials</i> , 2022, 421, 126691.	12.4	43
2	Molecular oxygen as a signaling component in plant development. <i>New Phytologist</i> , 2021, 229, 24-35.	7.3	69
3	Comparing straw, compost, and biochar regarding their suitability as agricultural soil amendments to affect soil structure, nutrient leaching, microbial communities, and the fate of pesticides. <i>Science of the Total Environment</i> , 2021, 751, 141607.	8.0	221
4	Volatiles of rhizobacteria <i>Serratia</i> and <i>Stenotrophomonas</i> alter growth and metabolite composition of <i>Arabidopsis thaliana</i> . <i>Plant Biology</i> , 2019, 21, 109-119.	3.8	16
5	Multiparametric real-time sensing of cytosolic physiology links hypoxia responses to mitochondrial electron transport. <i>New Phytologist</i> , 2019, 224, 1668-1684.	7.3	69
6	The ACBP1-RAP2.12 signalling hub: A new perspective on integrative signalling during hypoxia in plants. <i>Plant Signaling and Behavior</i> , 2019, 14, e1651184.	2.4	12
7	HBI1 Mediates the Trade-off between Growth and Immunity through Its Impact on Apoplastic ROS Homeostasis. <i>Cell Reports</i> , 2019, 28, 1670-1678.e3.	6.4	44
8	An apical hypoxic niche sets the pace of shoot meristem activity. <i>Nature</i> , 2019, 569, 714-717.	27.8	137
9	Hypoxic Conditions in Crown Galls Induce Plant Anaerobic Responses That Support Tumor Proliferation. <i>Frontiers in Plant Science</i> , 2019, 10, 56.	3.6	38
10	Oxygen Sensing and Integrative Stress Signaling in Plants. <i>Plant Physiology</i> , 2018, 176, 1131-1142.	4.8	89
11	Low-oxygen response is triggered by an ATP-dependent shift in oleoyl-CoA in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12101-E12110.	7.1	55
12	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. <i>New Phytologist</i> , 2017, 214, 1403-1407.	7.3	146
13	Isolation and characterization of three new PGPR and their effects on the growth of <i>Arabidopsis</i> and <i>Datura</i> plants. <i>Journal of Plant Interactions</i> , 2017, 12, 1-6.	2.1	45
14	Comparison of mitochondrial gene expression and polysome loading in different tobacco tissues. <i>Plant Methods</i> , 2017, 13, 112.	4.3	3
15	Oxygen Sensing via the Ethylene Response Transcription Factor RAP2.12 Affects Plant Metabolism and Performance under Both Normoxia and Hypoxia. <i>Plant Physiology</i> , 2016, 172, 141-153.	4.8	82
16	Priming and memory of stress responses in organisms lacking a nervous system. <i>Biological Reviews</i> , 2016, 91, 1118-1133.	10.4	388
17	Mass spectrometry-based plant metabolomics: Metabolite responses to abiotic stress. <i>Mass Spectrometry Reviews</i> , 2016, 35, 620-649.	5.4	254
18	Regulation of Primary Metabolism in Response to Low Oxygen Availability as Revealed by Carbon and Nitrogen Isotope Redistribution. <i>Plant Physiology</i> , 2016, 170, 43-56.	4.8	105

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19	Redox regulation in shoot growth, SAM maintenance and flowering. <i>Current Opinion in Plant Biology</i> , 2016, 29, 121-128.	7.1	117
20	The stability and nuclear localization of the transcription factor <scp>RAP</scp>2.12 are dynamically regulated by oxygen concentration. <i>Plant, Cell and Environment</i> , 2015, 38, 1094-1103.	5.7	95
21	Oxygen Sensing and Signaling. <i>Annual Review of Plant Biology</i> , 2015, 66, 345-367.	18.7	212
22	Fermentation and alternative oxidase contribute to the action of amino acid biosynthesis-inhibiting herbicides. <i>Journal of Plant Physiology</i> , 2015, 175, 102-112.	3.5	27
23	A Trihelix DNA Binding Protein Counterbalances Hypoxia-Responsive Transcriptional Activation in <i>Arabidopsis</i> . <i>PLoS Biology</i> , 2014, 12, e1001950.	5.6	86
24	Plant cysteine oxidases control the oxygen-dependent branch of the N-end-rule pathway. <i>Nature Communications</i> , 2014, 5, 3425.	12.8	293
25	Differential physiological responses of different rice ( <i>Oryza sativa</i> ) cultivars to elevated night temperature during vegetative growth. <i>Functional Plant Biology</i> , 2014, 41, 437.	2.1	45
26	Nighttime Sugar Starvation Orchestrates Gibberellin Biosynthesis and Plant Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3760-3769.	6.6	76
27	Diurnal Changes of Polysome Loading Track Sucrose Content in the Rosette of Wild-Type <i>Arabidopsis</i> and the Starchless <i>pgm</i> Mutant. <i>Plant Physiology</i> , 2013, 162, 1246-1265.	4.8	133
28	Misexpression of a Chloroplast Aspartyl Protease Leads to Severe Growth Defects and Alters Carbohydrate Metabolism in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2012, 160, 1237-1250.	4.8	34
29	Plant-growth promoting effect of newly isolated rhizobacteria varies between two <i>Arabidopsis</i> ecotypes. <i>Plant Signaling and Behavior</i> , 2012, 7, 623-627.	2.4	23
30	Conducting Molecular Biomarker Discovery Studies in Plants. <i>Methods in Molecular Biology</i> , 2012, 918, 127-150.	0.9	6
31	Modification of OsSUT1 gene expression modulates the salt response of rice <i>Oryza sativa</i> cv. Taipei 309. <i>Plant Science</i> , 2012, 182, 101-111.	3.6	60
32	Making sense of low oxygen sensing. <i>Trends in Plant Science</i> , 2012, 17, 129-138.	8.8	465
33	Optical Oxygen Micro- and Nanosensors for Plant Applications. <i>Sensors</i> , 2012, 12, 7015-7032.	3.8	61
34	<i>Microbacterium yannicii</i> sp. nov., isolated from <i>Arabidopsis thaliana</i> roots. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 822-826.	1.7	19
35	MAPA Distinguishes Genotype-Specific Variability of Highly Similar Regulatory Protein Isoforms in Potato Tuber. <i>Journal of Proteome Research</i> , 2011, 10, 2979-2991.	3.7	42
36	Oxygen sensing in plants is mediated by an N-end rule pathway for protein destabilization. <i>Nature</i> , 2011, 479, 419-422.	27.8	628

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37	Regulation of respiration in plants: A role for alternative metabolic pathways. <i>Journal of Plant Physiology</i> , 2011, 168, 1434-1443.	3.5	189
38	Unraveling the role of fermentation in the mode of action of acetolactate synthase inhibitors by metabolic profiling. <i>Journal of Plant Physiology</i> , 2011, 168, 1568-1575.	3.5	30
39	On the origins of nitric oxide. <i>Trends in Plant Science</i> , 2011, 16, 160-168.	8.8	528
40	A Naturally Associated Rhizobacterium of <i>Arabidopsis thaliana</i> Induces a Starvation-Like Transcriptional Response while Promoting Growth. <i>PLoS ONE</i> , 2011, 6, e29382.	2.5	44
41	Hypoxia responsive gene expression is mediated by various subsets of transcription factors and miRNAs that are determined by the actual oxygen availability. <i>New Phytologist</i> , 2011, 190, 442-456.	7.3	149
42	Comparative analysis between plant species of transcriptional and metabolic responses to hypoxia. <i>New Phytologist</i> , 2011, 190, 472-487.	7.3	157
43	Modeling alternatives for interpreting the change in oxygen consumption rates during hypoxic conditions. <i>New Phytologist</i> , 2011, 190, 273-276.	7.3	12
44	Potassium (K <sup>+</sup> ) gradients serve as a mobile energy source in plant vascular tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 864-869.	7.1	255
45	The Composition of Plant Mitochondrial Supercomplexes Changes with Oxygen Availability. <i>Journal of Biological Chemistry</i> , 2011, 286, 43045-43053.	3.4	82
46	The K <sup>+</sup> battery-regulating <i>Arabidopsis</i> K <sup>+</sup> channel AKT2 is under the control of multiple post-translational steps. <i>Plant Signaling and Behavior</i> , 2011, 6, 558-562.	2.4	30
47	HRE-Type Genes are Regulated by Growth-Related Changes in Internal Oxygen Concentrations During the Normal Development of Potato ( <i>Solanum tuberosum</i> ) Tubers. <i>Plant and Cell Physiology</i> , 2011, 52, 1957-1972.	3.1	25
48	Analysis of alanine aminotransferase in various organs of soybean ( <i>Glycine max</i> ) and in dependence of different nitrogen fertilisers during hypoxic stress. <i>Amino Acids</i> , 2010, 39, 1043-1053.	2.7	91
49	Time course effects on primary metabolism of potato ( <i>Solanum tuberosum</i> ) tuber tissue after mechanical impact. <i>Postharvest Biology and Technology</i> , 2010, 56, 109-116.	6.0	32
50	HRE1 and HRE2, two hypoxia-inducible ethylene response factors, affect anaerobic responses in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2010, 62, 302-315.	5.7	384
51	Discovering plant metabolic biomarkers for phenotype prediction using an untargeted approach. <i>Plant Biotechnology Journal</i> , 2010, 8, 900-911.	8.3	113
52	Glycolysis and the Tricarboxylic Acid Cycle Are Linked by Alanine Aminotransferase during Hypoxia Induced by Waterlogging of <i>Lotus japonicus</i> . <i>Plant Physiology</i> , 2010, 152, 1501-1513.	4.8	346
53	Transcript and metabolite profiling of the adaptive response to mild decreases in oxygen concentration in the roots of <i>Arabidopsis</i> plants. <i>Annals of Botany</i> , 2009, 103, 269-280.	2.9	197
54	Use of reverse-phase liquid chromatography, linked to tandem mass spectrometry, to profile the Calvin cycle and other metabolic intermediates in <i>Arabidopsis</i> rosettes at different carbon dioxide concentrations. <i>Plant Journal</i> , 2009, 59, 826-839.	5.7	216

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55	Alternative oxidase: a defence against metabolic fluctuations?. <i>Physiologia Plantarum</i> , 2009, 137, 371-382.	5.2	134
56	Regulation of respiration when the oxygen availability changes. <i>Physiologia Plantarum</i> , 2009, 137, 383-391.	5.2	160
57	Regulation of Respiration and Fermentation to Control the Plant Internal Oxygen Concentration. <i>Plant Physiology</i> , 2009, 149, 1087-1098.	4.8	240
58	A rapid approach for phenotype screening and database independent detection of cSNP/protein polymorphism using mass accuracy precursor alignment. <i>Proteomics</i> , 2008, 8, 4214-4225.	2.2	78
59	The effect of geometry on three-dimensional tissue growth. <i>Journal of the Royal Society Interface</i> , 2008, 5, 1173-1180.	3.4	413
60	Decreased Expression of Cytosolic Pyruvate Kinase in Potato Tubers Leads to a Decline in Pyruvate Resulting in an in Vivo Repression of the Alternative Oxidase. <i>Plant Physiology</i> , 2008, 148, 1640-1654.	4.8	73
61	Combined Transcript and Metabolite Profiling of Arabidopsis Leaves Reveals Fundamental Effects of the Thiol-Disulfide Status on Plant Metabolism. <i>Plant Physiology</i> , 2006, 141, 412-422.	4.8	93
62	SNF1-related kinases allow plants to tolerate herbivory by allocating carbon to roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12935-12940.	7.1	312
63	Cold-induced repression of the rice anther-specific cell wall invertase gene OSINV4 is correlated with sucrose accumulation and pollen sterility. <i>Plant, Cell and Environment</i> , 2005, 28, 1534-1551.	5.7	309
64	Symbiotic Leghemoglobins Are Crucial for Nitrogen Fixation in Legume Root Nodules but Not for General Plant Growth and Development. <i>Current Biology</i> , 2005, 15, 531-535.	3.9	350
65	Inhibition of de Novo Pyrimidine Synthesis in Growing Potato Tubers Leads to a Compensatory Stimulation of the Pyrimidine Salvage Pathway and a Subsequent Increase in Biosynthetic Performance. <i>Plant Cell</i> , 2005, 17, 2077-2088.	6.6	86
66	New challenges in biophotonics: laser-based fluoroimmuno analysis and in-vivo optical oxygen monitoring. , 2005, , .		6
67	An Optical Multifrequency Phase-Modulation Method Using Microbeads for Measuring Intracellular Oxygen Concentrations in Plants. <i>Biophysical Journal</i> , 2005, 89, 1339-1345.	0.5	97
68	Phloem Import and Storage Metabolism Are Highly Coordinated by the Low Oxygen Concentrations within Developing Wheat Seeds. <i>Plant Physiology</i> , 2004, 135, 1809-1821.	4.8	84
69	Aquaporins. , 2004, , 109-120.		1
70	Members of the aquaporin family in the developing pea seed coat include representatives of the PIP, TIP, and NIP subfamilies. <i>Plant Molecular Biology</i> , 2003, 53, 655-667.	3.9	78
71	Structure of the Developing Pea Seed Coat and the Post-phloem Transport Pathway of Nutrients. <i>Annals of Botany</i> , 2003, 91, 729-737.	2.9	90
72	Lipid Storage Metabolism Is Limited by the Prevailing Low Oxygen Concentrations within Developing Seeds of Oilseed Rape. <i>Plant Physiology</i> , 2003, 133, 2048-2060.	4.8	116

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73	Phloem Metabolism and Function Have to Cope with Low Internal Oxygen. <i>Plant Physiology</i> , 2003, 131, 1529-1543.	4.8	186
74	Electrodifusional Uptake of Organic Cations by Pea Seed Coats. Further Evidence for Poorly Selective Pores in the Plasma Membrane of Seed Coat Parenchyma Cells. <i>Plant Physiology</i> , 2001, 126, 1688-1697.	4.8	19