

# Jan de Vries

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

3,363  
citations

186265

28  
h-index

214800

47  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3039  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. <i>Cell</i> , 2018, 174, 448-464.e24.	28.9	420
2	Fern genomes elucidate land plant evolution and cyanobacterial symbioses. <i>Nature Plants</i> , 2018, 4, 460-472.	9.3	391
3	Plant evolution: landmarks on the path to terrestrial life. <i>New Phytologist</i> , 2018, 217, 1428-1434.	7.3	236
4	Anthoceros genomes illuminate the origin of land plants and the unique biology of hornworts. <i>Nature Plants</i> , 2020, 6, 259-272.	9.3	225
5	Embryophyte stress signaling evolved in the algal progenitors of land plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3471-E3480.	7.1	164
6	The era of reference genomes in conservation genomics. <i>Trends in Ecology and Evolution</i> , 2022, 37, 197-202.	8.7	138
7	Streptophyte Terrestrialization in Light of Plastid Evolution. <i>Trends in Plant Science</i> , 2016, 21, 467-476.	8.8	136
8	YCF1: A Green TIC?. <i>Plant Cell</i> , 2015, 27, 1827-1833.	6.6	115
9	Evo-physio: on stress responses and the earliest land plants. <i>Journal of Experimental Botany</i> , 2020, 71, 3254-3269.	4.8	107
10	How Embryophytic is the Biosynthesis of Phenylpropanoids and their Derivatives in Streptophyte Algae?. <i>Plant and Cell Physiology</i> , 2017, 58, 934-945.	3.1	102
11	A ligand-independent origin of abscisic acid perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24892-24899.	7.1	84
12	Continuous root xylem formation and vascular acclimation to water deficit involves endodermal ABA signalling via miR165. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	75
13	Plastid survival in the cytosol of animal cells. <i>Trends in Plant Science</i> , 2014, 19, 347-350.	8.8	72
14	Is ftsH the Key to Plastid Longevity in Sacoglossan Slugs?. <i>Genome Biology and Evolution</i> , 2013, 5, 2540-2548.	2.5	68
15	The evolution of the phenylpropanoid pathway entailed pronounced radiations and divergences of enzyme families. <i>Plant Journal</i> , 2021, 107, 975-1002.	5.7	67
16	Heat stress response in the closest algal relatives of land plants reveals conserved stress signaling circuits. <i>Plant Journal</i> , 2020, 103, 1025-1048.	5.7	65
17	Cytokinin-induced promotion of root meristem size in the fern <i>Azolla</i> supports a shoot-like origin of euphyllophyte roots. <i>New Phytologist</i> , 2016, 209, 705-720.	7.3	59
18	Endosymbiosis: Did Plastids Evolve from a Freshwater Cyanobacterium?. <i>Current Biology</i> , 2017, 27, R103-R105.	3.9	56

#	ARTICLE	IF	CITATIONS
19	Underwater CAM photosynthesis elucidated by Isoetes genome. Nature Communications, 2021, 12, 6348.	12.8	56
20	On plant defense signaling networks and early land plant evolution. Communicative and Integrative Biology, 2018, 11, 1-14.	1.4	54
21	Reconstructing trait evolution in plant evoâ€“devo studies. Current Biology, 2019, 29, R1110-R1118.	3.9	47
22	Comparison of sister species identifies factors underpinning plastid compatibility in green sea slugs. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142519.	2.6	44
23	Photoprotection in a monophyletic branch of chlorophyte algae is independent of energyâ€“dependent quenching (qE). New Phytologist, 2017, 214, 1132-1144.	7.3	44
24	Ties between Stress and Lipid Droplets Pre-date Seeds. Trends in Plant Science, 2020, 25, 1203-1214.	8.8	43
25	Jasmonic and salicylic acid response in the fern <i>Azolla filiculoides</i> and its cyanobiont. Plant, Cell and Environment, 2018, 41, 2530-2548.	5.7	40
26	A sea slugâ€™s guide to plastid symbiosis. Acta Societatis Botanicorum Poloniae, 2014, 83, 415-421.	0.8	39
27	Crossroads in the evolution of plant specialized metabolism. Seminars in Cell and Developmental Biology, 2023, 134, 37-58.	5.0	39
28	Plant genome sequence assembly in the era of long reads: Progress, challenges and future directions. Quantitative Plant Biology, 2022, 3, .	2.0	37
29	Widespread occurrence of covalent lysineâ€“cysteine redox switches in proteins. Nature Chemical Biology, 2022, 18, 368-375.	8.0	34
30	The monoplastidic bottleneck in algae and plant evolution. Journal of Cell Science, 2018, 131, .	2.0	33
31	LDIP cooperates with SEIPIN and LDAP to facilitate lipid droplet biogenesis in Arabidopsis. Plant Cell, 2021, 33, 3076-3103.	6.6	31
32	Convergence of sphingolipid desaturation across over 500 million years of plant evolution. Nature Plants, 2021, 7, 219-232.	9.3	31
33	Why It Is Time to Look Beyond Algal Genes in Photosynthetic Slugs. Genome Biology and Evolution, 2015, 7, 2602-2607.	2.5	28
34	Plastid genomes. Current Biology, 2018, 28, R336-R337.	3.9	22
35	Unexpected cryptic species among streptophyte algae most distant to land plants. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20212168.	2.6	22
36	Switching off photosynthesis. Communicative and Integrative Biology, 2014, 7, e28029.	1.4	18

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37	The Carboxy Terminus of YCF1 Contains a Motif Conserved throughout >500 Myr of Streptophyte Evolution. <i>Genome Biology and Evolution</i> , 2017, 9, 473-479.	2.5	14
38	The Elaboration of miRNA Regulation and Gene Regulatory Networks in Plant-Microbe Interactions. <i>Genes</i> , 2019, 10, 310.	2.4	13
39	Submergence of the filamentous Zygnematophyceae <i>Mougeotia</i> induces differential gene expression patterns associated with core metabolism and photosynthesis. <i>Protoplasma</i> , 2022, 259, 1157-1174.	2.1	12
40	Gene gains paved the path to land. <i>Nature Plants</i> , 2020, 6, 7-8.	9.3	11
41	A Global Survey of Carbohydrate Esterase Families 1 and 10 in Oomycetes. <i>Frontiers in Genetics</i> , 2020, 11, 756.	2.3	10
42	Mitochondrial Genome Assemblies of <i>Elysia timida</i> and <i>Elysia cornigera</i> and the Response of Mitochondrion-Associated Metabolism during Starvation. <i>Genome Biology and Evolution</i> , 2017, 9, 1873-1879.	2.5	9
43	<i>Azolla</i> : A Model System for Symbiotic Nitrogen Fixation and Evolutionary Developmental Biology. , 2018, , 21-46.		8
44	Two plastid POLLUX ion channel-like proteins are required for stress-triggered stromal Ca <sup>2+</sup> release. <i>Plant Physiology</i> , 2021, 187, 2110-2125.	4.8	7
45	Ulvophyceae photophysiology and research opportunities. <i>Perspectives in Phycology</i> , 2017, 4, 83-92.	1.9	5
46	Plastid Autonomy vs Nuclear Control Over Plastid Function. <i>Advances in Botanical Research</i> , 2018, 85, 1-28.	1.1	4
47	Comparative analyses of saprotrophy in <i>Salisapilia sapeloensis</i> and diverse plant pathogenic oomycetes reveal lifestyle-specific gene expression. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	4
48	Plant Genome Evolution: Meat Lovers Expanded Gene Families for Carnivory and Dropped the Rest. <i>Current Biology</i> , 2020, 30, R700-R702.	3.9	3
49	Punctuated ancestral gene gains in streptophyte evolution. <i>Molecular Plant</i> , 2022, , .	8.3	0