

# Alain F Tissier

## List of Publications by Year in descending order

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73  
papers

5,442  
citations

81900

39  
h-index

91884

69  
g-index

84  
all docs

84  
docs citations

84  
times ranked

6731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Consumers'™ Willingness to Buy CRISPR Gene-Edited Tomatoes: Evidence from a Choice Experiment Case Study in Germany. <i>Sustainability</i> , 2022, 14, 971.	3.2	5
2	Control of resource allocation between primary and specialized metabolism in glandular trichomes. <i>Current Opinion in Plant Biology</i> , 2022, 66, 102172.	7.1	6
3	The Genetic Complexity of Type-IV Trichome Development Reveals the Steps towards an Insect-Resistant Tomato. <i>Plants</i> , 2022, 11, 1309.	3.5	6
4	A single <sc>promoter</sc> TALE</sc> system for tissue-specific and tuneable expression of multiple genes in rice. <i>Plant Biotechnology Journal</i> , 2022, 20, 1786-1806.	8.3	6
5	A single cytochrome P450 oxidase from <i>Solanum habrochaites</i> sequentially oxidizes 7-epi- <i>zingiberene</i> to derivatives toxic to whiteflies and various microorganisms. <i>Plant Journal</i> , 2021, 105, 1309-1325.	5.7	15
6	The scarecrow-like transcription factor SISCL3 regulates volatile terpene biosynthesis and glandular trichome size in tomato ( <i>Solanum lycopersicum</i> ). <i>Plant Journal</i> , 2021, 107, 1102-1118.	5.7	22
7	At4g29530 is a phosphoethanolamine phosphatase homologous to PECP1 with a role in flowering time regulation. <i>Plant Journal</i> , 2021, 107, 1072-1083.	5.7	5
8	Glandular trichomes: micro-organs with model status?. <i>New Phytologist</i> , 2020, 225, 2251-2266.	7.3	131
9	Trichomes form genotype-specific microbial hotspots in the phyllosphere of tomato. <i>Environmental Microbiomes</i> , 2020, 15, 17.	5.0	14
10	Oomycete small RNAs bind to the plant RNA-induced silencing complex for virulence. <i>ELife</i> , 2020, 9, .	6.0	89
11	The inconspicuous gatekeeper: endophytic <i>Serendipita vermifera</i> acts as extended plant protection barrier in the rhizosphere. <i>New Phytologist</i> , 2019, 224, 886-901.	7.3	52
12	CYP76 Oxidation Network of Abietane Diterpenes in Lamiaceae Reconstituted in Yeast. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13437-13450.	5.2	25
13	Medicago TERPENE SYNTHASE 10 Is Involved in Defense Against an Oomycete Root Pathogen. <i>Plant Physiology</i> , 2019, 180, 1598-1613.	4.8	17
14	Cytochrome P450 enzymes: A driving force of plant diterpene diversity. <i>Phytochemistry</i> , 2019, 161, 149-162.	2.9	148
15	Split-TALE: A TALE-Based Two-Component System for Synthetic Biology Applications in Planta. <i>Plant Physiology</i> , 2019, 179, 1001-1012.	4.8	14
16	Production of trans-chrysanthemoid acid, the monoterpene acid moiety of natural pyrethrin insecticides, in tomato fruit. <i>Metabolic Engineering</i> , 2018, 47, 271-278.	7.0	26
17	Pi starvation-dependent regulation of ethanolamine metabolism by phosphoethanolamine phosphatase PECP1 in Arabidopsis roots. <i>Journal of Experimental Botany</i> , 2018, 69, 467-481.	4.8	24
18	Plant secretory structures: more than just reaction bags. <i>Current Opinion in Biotechnology</i> , 2018, 49, 73-79.	6.6	28

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19	QTL Mapping of the Shape of Type VI Glandular Trichomes in Tomato. <i>Frontiers in Plant Science</i> , 2018, 9, 1421.	3.6	23
20	Strigolactone Levels in Dicot Roots Are Determined by an Ancestral Symbiosis-Regulated Clade of the PHYTOENE SYNTHASE Gene Family. <i>Frontiers in Plant Science</i> , 2018, 9, 255.	3.6	53
21	Multi-Omics of Tomato Glandular Trichomes Reveals Distinct Features of Central Carbon Metabolism Supporting High Productivity of Specialized Metabolites. <i>Plant Cell</i> , 2017, 29, 960-983.	6.6	143
22	Global proteomic analysis of advanced glycation end products in the Arabidopsis proteome provides evidence for age-related glycation hot spots. <i>Journal of Biological Chemistry</i> , 2017, 292, 15758-15776.	3.4	44
23	Integrated omics analyses of retrograde signaling mutant delineate interrelated stress response strata. <i>Plant Journal</i> , 2017, 91, 70-84.	5.7	36
24	Plant Volatiles: Going "In" but not "Out" of Trichome Cavities. <i>Trends in Plant Science</i> , 2017, 22, 930-938.	3.8	97
25	Initiation of ER Body Formation and Indole Glucosinolate Metabolism by the Plastidial Retrograde Signaling Metabolite, MEcPP. <i>Molecular Plant</i> , 2017, 10, 1400-1416.	8.3	26
26	A 1-phytase type III effector interferes with plant hormone signaling. <i>Nature Communications</i> , 2017, 8, 2159.	12.8	40
27	Generation of dTALEs and Libraries of Synthetic TALE-Activated Promoters for Engineering of Gene Regulatory Networks in Plants. <i>Methods in Molecular Biology</i> , 2017, 1629, 185-204.	0.9	5
28	Glycation of Plant Proteins under Environmental Stress – Methodological Approaches, Potential Mechanisms and Biological Role. , 2016, , .		2
29	Autofluorescence as a Signal to Sort Developing Glandular Trichomes by Flow Cytometry. <i>Frontiers in Plant Science</i> , 2016, 7, 949.	3.6	29
30	Discovering Regulated Metabolite Families in Untargeted Metabolomics Studies. <i>Analytical Chemistry</i> , 2016, 88, 8082-8090.	6.5	72
31	Libraries of Synthetic TALE-Activated Promoters. <i>Methods in Enzymology</i> , 2016, 576, 361-378.	1.0	8
32	Elucidation of the biosynthesis of carnosic acid and its reconstitution in yeast. <i>Nature Communications</i> , 2016, 7, 12942.	12.8	122
33	Plant surface reactions: an opportunistic ozone defence mechanism impacting atmospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 277-292.	4.9	56
34	A Snapshot of the Plant Glycated Proteome. <i>Journal of Biological Chemistry</i> , 2016, 291, 7621-7636.	3.4	43
35	The development of type VI glandular trichomes in the cultivated tomato <i>Solanum lycopersicum</i> and a related wild species <i>S. habrochaites</i> . <i>BMC Plant Biology</i> , 2015, 15, 289.	3.6	94
36	<i>Arabidopsis thaliana</i> isoprenyl diphosphate synthases produce the C <sub>25</sub> intermediate geranyl farnesyl diphosphate. <i>Plant Journal</i> , 2015, 84, 847-859.	5.7	46

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37	Standards for plant synthetic biology: a common syntax for exchange of <scp>DNA</scp> parts. <i>New Phytologist</i> , 2015, 208, 13-19.	7.3	263
38	Towards Elucidating Carnosic Acid Biosynthesis in Lamiaceae: Functional Characterization of the Three First Steps of the Pathway in <i>Salvia fruticosa</i> and <i>Rosmarinus officinalis</i> . <i>PLoS ONE</i> , 2015, 10, e0124106.	2.5	67
39	Evolution of root-specific carotenoid precursor pathways for apocarotenoid signal biogenesis. <i>Plant Science</i> , 2015, 233, 1-10.	3.6	52
40	A library of synthetic transcription activator-like effector-activated promoters for coordinated orthogonal gene expression in plants. <i>Plant Journal</i> , 2015, 82, 707-716.	5.7	52
41	Natural products – learning chemistry from plants. <i>Biotechnology Journal</i> , 2014, 9, 326-336.	3.5	43
42	Characterization of two genes for the biosynthesis of abietane-type diterpenes in rosemary ( <i>Rosmarinus officinalis</i> ) glandular trichomes. <i>Phytochemistry</i> , 2014, 101, 52-64.	2.9	106
43	Isoprenoid and Metabolite Profiling of Plant Trichomes. <i>Methods in Molecular Biology</i> , 2014, 1153, 189-202.	0.9	18
44	Hypoxia and oxygenation induce a metabolic switch between pentose phosphate pathway and glycolysis in glioma stem-like cells. <i>Acta Neuropathologica</i> , 2013, 126, 763-780.	7.7	106
45	High-level diterpene production by transient expression in <i>Nicotiana benthamiana</i> . <i>Plant Methods</i> , 2013, 9, 46.	4.3	73
46	Reverse Transcription of 18S rRNA with Poly(dT)18 and Other Homopolymers. <i>Plant Molecular Biology Reporter</i> , 2013, 31, 55-63.	1.8	23
47	Natural products – modifying metabolite pathways in plants. <i>Biotechnology Journal</i> , 2013, 8, 1159-1171.	3.5	70
48	An UPLC-MS/MS Method for the Simultaneous Identification and Quantitation of Cell Wall Phenolics in <i>Brassica napus</i> Seeds. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 1219-1227.	5.2	29
49	Evolution of a Complex Locus for Terpene Biosynthesis in <i>Solanum</i> . <i>Plant Cell</i> , 2013, 25, 2022-2036.	6.6	132
50	Tobacco Trichomes as a Platform for Terpenoid Biosynthesis Engineering. , 2012, , 271-283.		5
51	Improved herbivore resistance in cultivated tomato with the sesquiterpene biosynthetic pathway from a wild relative. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20124-20129.	7.1	200
52	An UPLC-MS/MS method for highly sensitive high-throughput analysis of phytohormones in plant tissues. <i>Plant Methods</i> , 2012, 8, 47.	4.3	150
53	Glandular trichomes: what comes after expressed sequence tags?. <i>Plant Journal</i> , 2012, 70, 51-68.	5.7	213
54	Characterization of two genes for the biosynthesis of the labdane diterpene <i>z</i> -cubenol in tobacco ( <i>Nicotiana tabacum</i> ) glandular trichomes. <i>Plant Journal</i> , 2012, 72, 1-17.	5.7	133

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55	Trichome specific expression of the tobacco ( <i>Nicotiana sylvestris</i> ) cembratrien-ol synthase genes is controlled by both activating and repressing cis-regions. <i>Plant Molecular Biology</i> , 2010, 73, 673-685.	3.9	75
56	A Novel Pathway for Sesquiterpene Biosynthesis from <i>Z,Z</i> -Farnesyl Pyrophosphate in the Wild Tomato <i>Solanum habrochaites</i> . <i>Plant Cell</i> , 2009, 21, 301-317.	6.6	273
57	CYP725A4 from Yew Catalyzes Complex Structural Rearrangement of Taxa-4(5),11(12)-diene into the Cyclic Ether 5(12)-Oxa-3(11)-cyclohexane. <i>Journal of Biological Chemistry</i> , 2008, 283, 6067-6075.	3.4	89
58	ATR Regulates a G2-Phase Cell-Cycle Checkpoint in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2004, 16, 1091-1104.	6.6	286
59	<i>AtATM</i> Is Essential for Meiosis and the Somatic Response to DNA Damage in Plants[W]. <i>Plant Cell</i> , 2003, 15, 119-132.	6.6	267
60	Trehalose-6-phosphate synthase 1, which catalyses the first step in trehalose synthesis, is essential for <i>Arabidopsis</i> embryo maturation. <i>Plant Journal</i> , 2002, 29, 225-235.	5.7	333
61	A functional OGG1 homologue from <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , 2001, 265, 293-301.	2.1	46
62	Reverse Genetics in Plants. <i>Current Genomics</i> , 2001, 2, 269-284.	1.6	6
63	An ATM homologue from <i>Arabidopsis thaliana</i> : complete genomic organisation and expression analysis. <i>Nucleic Acids Research</i> , 2000, 28, 1692-1699.	14.5	54
64	Multiple Independent Defective Suppressor-mutator Transposon Insertions in <i>Arabidopsis</i> : A Tool for Functional Genomics. <i>Plant Cell</i> , 1999, 11, 1841-1852.	6.6	353
65	Function Search in a Large Transcription Factor Gene Family in <i>Arabidopsis</i> : Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. <i>Plant Cell</i> , 1999, 11, 1827-1840.	6.6	151
66	Multiple Independent Defective Suppressor-mutator Transposon Insertions in <i>Arabidopsis</i> : A Tool for Functional Genomics. <i>Plant Cell</i> , 1999, 11, 1841.	6.6	35
67	Function Search in a Large Transcription Factor Gene Family in <i>Arabidopsis</i> : Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. <i>Plant Cell</i> , 1999, 11, 1827.	6.6	13
68	Activity of the yeast FLP recombinase in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 1995, 28, 1127-1132.	3.9	38
69	Purification and Characterization of a DNA Strand Transferase from Broccoli. <i>Plant Physiology</i> , 1995, 108, 379-386.	4.8	3
70	Plant Genes and Proteins Involved in Homologous Recombination. , 1994, , 157-166.		0
71	Cloning and Characterization of an <i>Arabidopsis thaliana</i> Topoisomerase I Gene. <i>Plant Physiology</i> , 1992, 99, 1493-1501.	4.8	40
72	Purification and properties of DNA topoisomerase I from broccoli. <i>Plant Molecular Biology</i> , 1992, 18, 865-871.	3.9	16

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73	Trichome Specific Expression: Promoters and Their Applications. , 0, , .		16