

# Christian Fankhauser

## List of Publications by Year in descending order

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114  
papers

17,676  
citations

13087

68  
h-index

26591

107  
g-index

199  
all docs

199  
docs citations

199  
times ranked

11814  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Role for Flavin Monooxygenase-Like Enzymes in Auxin Biosynthesis. <i>Science</i> , 2001, 291, 306-309.	6.0	1,075
2	A molecular framework for light and gibberellin control of cell elongation. <i>Nature</i> , 2008, 451, 480-484.	13.7	1,053
3	Activation Tagging in Arabidopsis. <i>Plant Physiology</i> , 2000, 122, 1003-1014.	2.3	896
4	Light Signal Transduction in Higher Plants. <i>Annual Review of Genetics</i> , 2004, 38, 87-117.	3.2	843
5	Light-Regulated Plant Growth and Development. <i>Current Topics in Developmental Biology</i> , 2010, 91, 29-66.	1.0	652
6	Phytochrome-mediated inhibition of shade avoidance involves degradation of growth-promoting bHLH transcription factors. <i>Plant Journal</i> , 2008, 53, 312-323.	2.8	651
7	Rhythmic growth explained by coincidence between internal and external cues. <i>Nature</i> , 2007, 448, 358-361.	13.7	599
8	Phytochrome interacting factors 4 and 5 control seedling growth in changing light conditions by directly controlling auxin signaling. <i>Plant Journal</i> , 2012, 71, 699-711.	2.8	498
9	LIGHT CONTROL OF PLANT DEVELOPMENT. <i>Annual Review of Cell and Developmental Biology</i> , 1997, 13, 203-229.	4.0	439
10	PKS1, a Substrate Phosphorylated by Phytochrome That Modulates Light Signaling in Arabidopsis. <i>Science</i> , 1999, 284, 1539-1541.	6.0	426
11	Light: an indicator of time and place. <i>Genes and Development</i> , 2000, 14, 257-271.	2.7	423
12	Inhibition of the shade avoidance response by formation of non-DNA binding bHLH heterodimers. <i>EMBO Journal</i> , 2009, 28, 3893-3902.	3.5	354
13	Sensing the light environment in plants: photoreceptors and early signaling steps. <i>Current Opinion in Neurobiology</i> , 2015, 34, 46-53.	2.0	344
14	Light-Mediated Hormonal Regulation of Plant Growth and Development. <i>Annual Review of Plant Biology</i> , 2016, 67, 513-537.	8.6	328
15	An Arabidopsis Mutant Defective in the Plastid General Protein Import Apparatus. , 1998, 282, 100-103.		301
16	Light-mediated polarization of the PIN3 auxin transporter for the phototropic response in Arabidopsis. <i>Nature Cell Biology</i> , 2011, 13, 447-452.	4.6	295
17	ELF3 Encodes a Circadian Clock-Regulated Nuclear Protein That Functions in an Arabidopsis PHYB Signal Transduction Pathway. <i>Plant Cell</i> , 2001, 13, 1293-1304.	3.1	288
18	The <i>S. pombe cdc15</i> gene is a key element in the reorganization of F-actin at mitosis. <i>Cell</i> , 1995, 82, 435-444.	13.5	250

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19	Molecular mechanisms underlying phytochrome-controlled morphogenesis in plants. <i>Nature Communications</i> , 2019, 10, 5219.	5.8	245
20	The <i>dmf1/mid1</i> gene is essential for correct positioning of the division septum in fission yeast.. <i>Genes and Development</i> , 1996, 10, 2707-2719.	2.7	238
21	bHLH class transcription factors take centre stage in phytochrome signalling. <i>Trends in Plant Science</i> , 2005, 10, 51-54.	4.3	216
22	<i>ELF3</i> Encodes a Circadian Clock-Regulated Nuclear Protein That Functions in an Arabidopsis <i>PHYB</i> Signal Transduction Pathway. <i>Plant Cell</i> , 2001, 13, 1293-1304.	3.1	214
23	Higher plants use LOV to perceive blue light. <i>Current Opinion in Plant Biology</i> , 2009, 12, 69-74.	3.5	207
24	The Degradation of HFR1, a Putative bHLH Class Transcription Factor Involved in Light Signaling, Is Regulated by Phosphorylation and Requires COP1. <i>Current Biology</i> , 2004, 14, 2296-2301.	1.8	204
25	PIF3 is a repressor of chloroplast development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7654-7659.	3.3	201
26	From seed germination to flowering, light controls plant development via the pigment phytochrome.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 12066-12071.	3.3	189
27	PHYTOCHROME KINASE SUBSTRATE 1 is a phototropin 1 binding protein required for phototropism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10134-10139.	3.3	176
28	The Phytochromes, a Family of Red/Far-red Absorbing Photoreceptors. <i>Journal of Biological Chemistry</i> , 2001, 276, 11453-11456.	1.6	175
29	Photoreceptors in <i>Arabidopsis thaliana</i> : light perception, signal transduction and entrainment of the endogenous clock. <i>Planta</i> , 2002, 216, 1-16.	1.6	166
30	The Arabidopsis PHYTOCHROME KINASE SUBSTRATE2 Protein Is a Phototropin Signaling Element That Regulates Leaf Flattening and Leaf Positioning. <i>Plant Physiology</i> , 2010, 152, 1391-1405.	2.3	157
31	HFR1, a putative bHLH transcription factor, mediates both phytochrome A and cryptochrome signalling. <i>Plant Journal</i> , 2003, 34, 827-836.	2.8	151
32	Integration of Phytochrome and Cryptochrome Signals Determines Plant Growth during Competition for Light. <i>Current Biology</i> , 2016, 26, 3320-3326.	1.8	148
33	UV-B Perceived by the UVR8 Photoreceptor Inhibits Plant Thermomorphogenesis. <i>Current Biology</i> , 2017, 27, 120-127.	1.8	142
34	The <i>cdc7</i> protein kinase is a dosage dependent regulator of septum formation in fission yeast.. <i>EMBO Journal</i> , 1994, 13, 3011-3019.	3.5	141
35	Plant Phototropic Growth. <i>Current Biology</i> , 2015, 25, R384-R389.	1.8	141
36	Nuclear Accumulation of the Phytochrome A Photoreceptor Requires FHY1. <i>Current Biology</i> , 2005, 15, 2125-2130.	1.8	140

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37	The <i>S. pombe</i> <i>cdc16</i> gene is required both for maintenance of p34cdc2 kinase activity and regulation of septum formation: a link between mitosis and cytokinesis?. <i>EMBO Journal</i> , 1993, 12, 2697-2704.	3.5	139
38	Plant Strategies for Enhancing Access to Sunlight. <i>Current Biology</i> , 2017, 27, R931-R940.	1.8	134
39	PHYTOCHROME INTERACTING FACTOR 7 is important for early responses to elevated temperature in <i>Arabidopsis</i> seedlings. <i>New Phytologist</i> , 2020, 226, 50-58.	3.5	130
40	Neighbor Detection Induces Organ-Specific Transcriptomes, Revealing Patterns Underlying Hypocotyl-Specific Growth. <i>Plant Cell</i> , 2016, 28, 2889-2904.	3.1	128
41	Light receptor action is critical for maintaining plant biomass at warm ambient temperatures. <i>Plant Journal</i> , 2011, 65, 441-452.	2.8	122
42	Low number of fixed somatic mutations in a long-lived oak tree. <i>Nature Plants</i> , 2017, 3, 926-929.	4.7	120
43	Atomic Force Microscopy Stiffness Tomography on Living <i>Arabidopsis thaliana</i> Cells Reveals the Mechanical Properties of Surface and Deep Cell-Wall Layers during Growth. <i>Biophysical Journal</i> , 2012, 103, 386-394.	0.2	119
44	D6PK AGCVIII Kinases Are Required for Auxin Transport and Phototropic Hypocotyl Bending in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1674-1688.	3.1	118
45	Signalling for developmental plasticity. <i>Trends in Plant Science</i> , 2004, 9, 309-314.	4.3	117
46	Phosphorylation of Phytochrome B Inhibits Light-Induced Signaling via Accelerated Dark Reversion in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 535-544.	3.1	116
47	RSF1, an <i>Arabidopsis</i> Locus Implicated in Phytochrome A Signaling. <i>Plant Physiology</i> , 2000, 124, 39-46.	2.3	113
48	Light intensity modulates the regulatory network of the shade avoidance response in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6515-6520.	3.3	111
49	Spatially and genetically distinct control of seed germination by phytochromes A and B. <i>Genes and Development</i> , 2012, 26, 1984-1996.	2.7	110
50	Phytochrome hormonal signalling networks. <i>New Phytologist</i> , 2003, 157, 449-463.	3.5	108
51	Phenotypic characterization of a photomorphogenic mutant. <i>Plant Journal</i> , 2004, 39, 747-760.	2.8	106
52	BLADE-ON-PETIOLE proteins act in an E3 ubiquitin ligase complex to regulate PHYTOCHROME INTERACTING FACTOR 4 abundance. <i>ELife</i> , 2017, 6, .	2.8	106
53	FHY1 Mediates Nuclear Import of the Light-Activated Phytochrome A Photoreceptor. <i>PLoS Genetics</i> , 2008, 4, e1000143.	1.5	104
54	Contrasting growth responses in lamina and petiole during neighbor detection depend on differential auxin responsiveness rather than different auxin levels. <i>New Phytologist</i> , 2015, 208, 198-209.	3.5	100

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55	The influence of greenhouse-integrated photovoltaics on crop production. <i>Solar Energy</i> , 2017, 155, 517-522.	2.9	96
56	Hypocotyl growth orientation in blue light is determined by phytochrome A inhibition of gravitropism and phototropin promotion of phototropism. <i>Plant Journal</i> , 2004, 40, 826-834.	2.8	94
57	A light-dependent molecular link between competition cues and defence responses in plants. <i>Nature Plants</i> , 2020, 6, 223-230.	4.7	92
58	The Arabidopsis SRR1 gene mediates phyB signaling and is required for normal circadian clock function. <i>Genes and Development</i> , 2003, 17, 256-268.	2.7	91
59	Transposing phytochrome into the nucleus. <i>Trends in Plant Science</i> , 2008, 13, 596-601.	4.3	88
60	Phytochrome interacting factors 4 and 5 redundantly limit seedling de-etiolation in continuous far-red light. <i>Plant Journal</i> , 2009, 60, 449-461.	2.8	88
61	Phototropism: at the crossroads of light-signaling pathways. <i>Trends in Plant Science</i> , 2013, 18, 393-401.	4.3	86
62	Phytochrome-mediated light signalling in Arabidopsis. <i>Current Opinion in Plant Biology</i> , 2004, 7, 564-569.	3.5	85
63	Differentially Phased Leaf Growth and Movements in <i>Arabidopsis</i> Depend on Coordinated Circadian and Light Regulation. <i>Plant Cell</i> , 2014, 26, 3911-3921.	3.1	83
64	Phytochrome Kinase Substrate 4 is phosphorylated by the phototropin 1 photoreceptor. <i>EMBO Journal</i> , 2012, 31, 3457-3467.	3.5	82
65	The <i>Schizosaccharomyces pombe</i> cdc14 gene is required for septum formation and can also inhibit nuclear division.. <i>Molecular Biology of the Cell</i> , 1993, 4, 531-539.	0.9	80
66	Auxin-mediated plant architectural changes in response to shade and high temperature. <i>Physiologia Plantarum</i> , 2014, 151, 13-24.	2.6	77
67	Phototropism: Translating light into directional growth. <i>American Journal of Botany</i> , 2013, 100, 47-59.	0.8	76
68	Measuring the diurnal pattern of leaf hyponasty and growth in Arabidopsis - a novel phenotyping approach using laser scanning. <i>Functional Plant Biology</i> , 2012, 39, 860.	1.1	73
69	Local auxin production underlies a spatially restricted neighbor-detection response in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7444-7449.	3.3	70
70	Shade Promotes Phototropism through Phytochrome B-Controlled Auxin Production. <i>Current Biology</i> , 2016, 26, 3280-3287.	1.8	69
71	PHYTOCHROME KINASE SUBSTRATE1 Regulates Root Phototropism and Gravitropism. <i>Plant Physiology</i> , 2008, 146, 108-115.	2.3	68
72	A Growth Regulatory Loop That Provides Homeostasis to Phytochrome A Signaling[W]. <i>Plant Cell</i> , 2003, 15, 2966-2978.	3.1	67

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73	PIF transcription factors link a neighbor threat cue to accelerated reproduction in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2019, 10, 4005.	5.8	65
74	Cloning of the <i>Arabidopsis</i> RSF1 Gene by Using a Mapping Strategy Based on High-Density DNA Arrays and Denaturing High-Performance Liquid Chromatography. <i>Plant Cell</i> , 2000, 12, 2485-2498.	3.1	61
75	Nuclear Phytochrome A Signaling Promotes Phototropism in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 566-576.	3.1	54
76	Verification at the protein level of the PIF4-mediated external coincidence model for the temperature-adaptive photoperiodic control of plant growth in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2013, 8, e23390.	1.2	54
77	Plasma membrane H <sup>+</sup> ATPase regulation is required for auxin gradient formation preceding phototropic growth. <i>Molecular Systems Biology</i> , 2014, 10, 751.	3.2	54
78	Photomorphogenesis: Light receptor kinases in plants!. <i>Current Biology</i> , 1999, 9, R123-R126.	1.8	51
79	The serine-rich N-terminal region of <i>Arabidopsis</i> phytochrome A is required for protein stability. <i>Plant Molecular Biology</i> , 2007, 63, 669-678.	2.0	48
80	Defining the Site of Light Perception and Initiation of Phototropism in <i>Arabidopsis</i> . <i>Current Biology</i> , 2013, 23, 1934-1938.	1.8	47
81	<i>Arabidopsis</i> RUP2 represses UVR8-mediated flowering in noninductive photoperiods. <i>Genes and Development</i> , 2018, 32, 1332-1343.	2.7	44
82	Let there be light in the nucleus!. <i>Current Opinion in Plant Biology</i> , 2006, 9, 509-514.	3.5	42
83	Light perception in plants: cytokinins and red light join forces to keep phytochrome B active. <i>Trends in Plant Science</i> , 2002, 7, 143-145.	4.3	41
84	Reduced phototropism in <i>pks</i> mutants may be due to altered auxin-regulated gene expression or reduced lateral auxin transport. <i>Plant Journal</i> , 2014, 77, 393-403.	2.8	41
85	PHYTOCHROME KINASE SUBSTRATE4 Modulates Phytochrome-Mediated Control of Hypocotyl Growth Orientation. <i>Plant Physiology</i> , 2008, 147, 661-671.	2.3	39
86	Cold fission: splitting the pombe cell at room temperature. <i>Trends in Cell Biology</i> , 1994, 4, 96-101.	3.6	38
87	Changes in resource partitioning between and within organs support growth adjustment to neighbor proximity in <i>Brassicaceae</i> seedlings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9953-E9961.	3.3	35
88	Phytochromes as light-modulated protein kinases. <i>Seminars in Cell and Developmental Biology</i> , 2000, 11, 467-473.	2.3	34
89	Light-regulated interactions with SPA proteins underlie cryptochrome-mediated gene expression: Figure 1.. <i>Genes and Development</i> , 2011, 25, 1004-1009.	2.7	34
90	Lipid anchoring of <i>Arabidopsis</i> phototropin 1 to assess the functional significance of receptor internalization: should I stay or should I go?. <i>New Phytologist</i> , 2015, 206, 1038-1050.	3.5	34

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91	Light-induced degradation of phyA is promoted by transfer of the photoreceptor into the nucleus. <i>Plant Molecular Biology</i> , 2010, 73, 687-695.	2.0	33
92	A Hormonal Regulatory Module That Provides Flexibility to Tropic Responses. <i>Plant Physiology</i> , 2011, 156, 1819-1825.	2.3	33
93	Conditional Involvement of CONSTITUTIVE PHOTOMORPHOGENIC1 in the Degradation of Phytochrome A. <i>Plant Physiology</i> , 2013, 161, 2136-2145.	2.3	33
94	Low Blue Light Enhances Phototropism by Releasing Cryptochrome1-Mediated Inhibition of PIF4 Expression. <i>Plant Physiology</i> , 2020, 183, 1780-1793.	2.3	30
95	Shadow on the Plant: A Strategy to Exit. <i>Cell</i> , 2016, 164, 15-17.	13.5	28
96	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in Arabidopsis. <i>PLoS Genetics</i> , 2020, 16, e1008797.	1.5	27
97	REPRESSOR OF ULTRAVIOLET-B PHOTOMORPHOGENESIS function allows efficient phototropin mediated ultraviolet-B phototropism in etiolated seedlings. <i>Plant Science</i> , 2016, 252, 215-221.	1.7	26
98	A phosphorylation switch turns a positive regulator of phototropism into an inhibitor of the process. <i>Nature Communications</i> , 2018, 9, 2403.	5.8	26
99	The Protein Phosphatase 7 Regulates Phytochrome Signaling in Arabidopsis. <i>PLoS ONE</i> , 2008, 3, e2699.	1.1	23
100	Architecture and plasticity: optimizing plant performance in dynamic environments. <i>Plant Physiology</i> , 2021, 187, 1029-1032.	2.3	12
101	Phototropin-mediated perception of light direction in leaves regulates blade flattening. <i>Plant Physiology</i> , 2021, 187, 1235-1249.	2.3	11
102	PKS1 and PKS2 affect the phyA state in etiolated Arabidopsis seedlings. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 608.	1.6	10
103	Periodic accumulation of cdc15 mRNA is not necessary for septation in <i>Schizosaccharomyces pombe</i> . <i>Journal of Molecular Biology</i> , 2000, 302, 751-759.	2.0	7
104	Plant Development: Should I Stop or Should I Grow?. <i>Current Biology</i> , 2012, 22, R645-R647.	1.8	7
105	The evolutionary conserved BER1 gene is involved in microtubule stability in yeast. <i>Current Genetics</i> , 2008, 53, 107-115.	0.8	6
106	Shade suppresses wound-induced leaf repositioning through a mechanism involving PHYTOCHROME KINASE SUBSTRATE (PKS) genes. <i>PLoS Genetics</i> , 2022, 18, e1010213.	1.5	6
107	A photoreceptor's on-off switch. <i>Science</i> , 2016, 354, 282-283.	6.0	3
108	The Effect of Light and Gravity on Hypocotyl Growth Orientation. , 2005, , 277-284.		3

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109	Cloning of the Arabidopsis RSF1 Gene by Using a Mapping Strategy Based on High-Density DNA Arrays and Denaturing High-Performance Liquid Chromatography. <i>Plant Cell</i> , 2000, 12, 2485.	3.1	1
110	The role of PIF3 in phytochrome regulation of chloroplast development. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S209.	0.8	0
111	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in Arabidopsis. , 2020, 16, e1008797.		0
112	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in Arabidopsis. , 2020, 16, e1008797.		0
113	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in Arabidopsis. , 2020, 16, e1008797.		0
114	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in Arabidopsis. , 2020, 16, e1008797.		0