Mikko Tikkanen

List of Publications by Year
in descending order

43 papers	4,016 citations	136950 32 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	2946 citing authors

#	Article	IF	Citations
1	PROTON GRADIENT REGULATION5 Is Essential for Proper Acclimation of <i>Arabidopsis</i> Photosystem I to Naturally and Artificially Fluctuating Light Conditions. Plant Cell, 2012, 24, 2934-2948.	6.6	435
2	Photosystem II photoinhibition-repair cycle protects Photosystem I from irreversible damage. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 210-215.	1.0	292
3	The Light-Harvesting Chlorophyll a/b Binding Proteins Lhcb1 and Lhcb2 Play Complementary Roles during State Transitions in Arabidopsis. Plant Cell, 2014, 26, 3646-3660.	6.6	236
4	Thylakoid Protein Phosphorylation in Higher Plant Chloroplasts Optimizes Electron Transfer under Fluctuating Light Â Â. Plant Physiology, 2010, 152, 723-735.	4.8	235
5	Integrative regulatory network of plant thylakoid energy transduction. Trends in Plant Science, 2014, 19, 10-17.	8.8	203
6	Core protein phosphorylation facilitates the repair of photodamaged photosystem II at high light. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1432-1437.	1.0	185
7	Thylakoid protein phosphorylation in dynamic regulation of photosystem II in higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 232-238.	1.0	178
8	Photoprotection of photosystems in fluctuating light intensities. Journal of Experimental Botany, 2015, 66, 2427-2436.	4.8	171
9	Steady-State Phosphorylation of Light-Harvesting Complex II Proteins Preserves Photosystem I under Fluctuating White Light Â Â. Plant Physiology, 2012, 160, 1896-1910.	4.8	160
10	Regulation of the photosynthetic apparatus under fluctuating growth light. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3486-3493.	4.0	138
11	Photodamage of ironâ€"sulphur clusters in photosystem I induces non-photochemical energy dissipation. Nature Plants, 2016, 2, 16035.	9.3	133
12	Electron flow from PSII to PSI under high light is controlled by PGR5 but not by PSBS. Frontiers in Plant Science, 2015, 6, 521.	3.6	112
13	Light-harvesting II antenna trimers connect energetically the entire photosynthetic machinery â€" including both photosystems II and I. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 607-619.	1.0	108
14	Phosphorylation-dependent regulation of excitation energy distribution between the two photosystems in higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 425-432.	1.0	93
15	Novel insights into plant light-harvesting complex II phosphorylation and â€˜state transitionsâ€™. Trends in Plant Science, 2011, 16, 126-131.	8.8	90
16	Plants Actively Avoid State Transitions upon Changes in Light Intensity: Role of Light-Harvesting Complex II Protein Dephosphorylation in High Light. Plant Physiology, 2015, 168, 721-734.	4.8	89
17	State transitions revisitedâ€"a buffering system for dynamic low light acclimation of Arabidopsis. Plant Molecular Biology, 2006, 62, 779-93.	3.9	88
18	Chlorophyll a fluorescence illuminates a path connecting plant molecular biology to Earth-system science. Nature Plants, 2021, 7, 998-1009.	9.3	88

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19	Photosynthetic light reactions: integral to chloroplast retrograde signalling. Current Opinion in Plant Biology, 2015, 27, 180-191.	7.1	77
20	Light acclimation involves dynamic reâ€organization of the pigmentâ€“protein megacomplexes in nonâ€appressed thylakoid domains. Plant Journal, 2015, 84, 360-373.	5.7	66
21	Inhibitory effects of polycyclic aromatic hydrocarbons (PAHs) on photosynthetic performance are not related to their aromaticity. Journal of Photochemistry and Photobiology B: Biology, 2014, 137, 151-155.	3.8	54
22	Photoinhibition of Photosystem I Provides Oxidative Protection During Imbalanced Photosynthetic Electron Transport in Arabidopsis thaliana. Frontiers in Plant Science, 2019, 10, 916.	3.6	53
23	Interaction between photosynthetic electron transport and chloroplast sinks triggers protection and signalling important for plant productivity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160390.	4.0	48
24	Photosynthetic light reactions â€“ An adjustable hub in basic production and plant immunity signaling. Plant Physiology and Biochemistry, 2014, 81, 128-134.	5.8	44
25	Consequences of photosystemâ€I damage and repair on photosynthesis and carbon use in <i>Arabidopsis thaliana</i>. Plant Journal, 2019, 97, 1061-1072.	5.7	43
26	STN7 Operates in Retrograde Signaling through Controlling Redox Balance in the Electron Transfer Chain. Frontiers in Plant Science, 2012, 3, 277.	3.6	42
27	Proteomic characterization of hierarchical megacomplex formation in Arabidopsis thylakoid membrane. Plant Journal, 2017, 92, 951-962.	5.7	42
28	PGR5 and NDH-1 systems do not function as protective electron acceptors but mitigate the consequences of PSI inhibition. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148154.	1.0	38
29	PGR5 ensures photosynthetic control to safeguard photosystem I under fluctuating light conditions. Plant Signaling and Behavior, 2013, 8, e22741.	2.4	36
30	Switching off photoprotection of photosystem IÂâ€“Âa novel tool for gradual PSI photoinhibition. Physiologia Plantarum, 2018, 162, 156-161.	5.2	35
31	Light-harvesting mutants show differential gene expression upon shift to high light as a consequence of photosynthetic redox and reactive oxygen species metabolism. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130229.	4.0	34
32	Specific thylakoid protein phosphorylations are prerequisites for overwintering of Norway spruce () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 States of America, 2020, 117, 17499-17509.	7.1	32
33	Comparative analysis of mutant plants impaired in the main regulatory mechanisms of photosynthetic light reactions - From biophysical measurements to molecular mechanisms. Plant Physiology and Biochemistry, 2017, 112, 290-301.	5.8	29
34	Photoinhibition of photosystem I in Nephrolepis falciformis depends on reactive oxygen species generated in the chloroplast stroma. Photosynthesis Research, 2018, 137, 129-140.	2.9	27
35	Low pHâ€induced regulation of excitation energy between the two photosystems. FEBS Letters, 2014, 588, 970-974.	2.8	24
36	Ultraviolet-B Radiation (UV-B) Relieves Chilling-Light-Induced PSI Photoinhibition And Accelerates The Recovery Of CO2 Assimilation In Cucumber (Cucumis sativus L.) Leaves. Scientific Reports, 2016, 6, 34455.	3.3	24

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37	Postâ€genomic insight into thylakoid membrane lateral heterogeneity and redox balance. FEBS Letters, 2012, 586, 2911-2916.	2.8	23
38	The unique photosynthetic apparatus of Pinaceae: analysis of photosynthetic complexes in Picea abies. Journal of Experimental Botany, 2019, 70, 3211-3225.	4.8	21
39	Chloroplastic ATP synthase optimizes the trade-off between photosynthetic CO2 assimilation and photoprotection during leaf maturation. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1067-1074.	1.0	19
40	FdC1 and Leaf-Type Ferredoxins Channel Electrons From Photosystem I to Different Downstream Electron Acceptors. Frontiers in Plant Science, 2018, 9, 410.	3.6	18
41	Phosphorylationâ€induced lateral rearrangements of thylakoid protein complexes upon light acclimation. Plant Direct, 2018, 2, e00039.	1.9	14
42	The Low Molecular Weight Protein PsaI Stabilizes the Light-Harvesting Complex II Docking Site of Photosystem I. Plant Physiology, 2016, 172, 450-463.	4.8	12
43	Beyond APAR and NPQ: Factors Coupling and Decoupling SIF and GPP Across Scales. , 2021, , .		0