

# Peter Jahns

## List of Publications by Year in descending order

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32  
papers

2,835  
citations

304743

22  
h-index

414414

32  
g-index

32  
all docs

32  
docs citations

32  
times ranked

3512  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of the xanthophyll cycle and of lutein in photoprotection of photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 182-193.	1.0	867
2	Mechanism and regulation of the violaxanthin cycle: The role of antenna proteins and membrane lipids. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 3-14.	1.0	331
3	Ion antiport accelerates photosynthetic acclimation in fluctuating light environments. <i>Nature Communications</i> , 2014, 5, 5439.	12.8	205
4	PGR5-PGRL1-Dependent Cyclic Electron Transport Modulates Linear Electron Transport Rate in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2016, 9, 271-288.	8.3	119
5	Mutants for photosystem I subunit D of <i>Arabidopsis thaliana</i> : effects on photosynthesis, photosystem I stability and expression of nuclear genes for chloroplast functions. <i>Plant Journal</i> , 2004, 37, 839-852.	5.7	117
6	PsbS interactions involved in the activation of energy dissipation in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2016, 2, 15225.	9.3	105
7	Photosystem II Subunit PsbS Is Involved in the Induction of LHCSR Protein-dependent Energy Dissipation in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 17478-17487.	3.4	100
8	Cytochrome b6f mutation specifically affects thermal dissipation of absorbed light energy in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2001, 28, 351-359.	5.7	98
9	Knock-out of the plastid ribosomal protein L11 in <i>Arabidopsis</i> : effects on mRNA translation and photosynthesis. <i>Plant Journal</i> , 2001, 27, 179-189.	5.7	90
10	Plant Growth under Natural Light Conditions Provides Highly Flexible Short-Term Acclimation Properties toward High Light Stress. <i>Frontiers in Plant Science</i> , 2017, 8, 681.	3.6	82
11	Tissue-Specific Accumulation and Regulation of Zeaxanthin Epoxidase in <i>Arabidopsis</i> Reflect the Multiple Functions of the Enzyme in Plastids. <i>Plant and Cell Physiology</i> , 2015, 56, 346-357.	3.1	70
12	The Transiently Generated Nonphotochemical Quenching of Excitation Energy in <i>Arabidopsis</i> Leaves Is Modulated by Zeaxanthin. <i>Plant Physiology</i> , 2007, 143, 1861-1870.	4.8	62
13	Envelope K <sup>+</sup> /H <sup>+</sup> Antiporters AtKEA1 and AtKEA2 Function in Plastid Development. <i>Plant Physiology</i> , 2016, 172, 441-449.	4.8	58
14	Single point mutation in the Rieske iron-sulfur subunit of cytochrome b6/f leads to an altered pH dependence of plastoquinol oxidation in <i>Arabidopsis</i> . <i>FEBS Letters</i> , 2002, 519, 99-102.	2.8	53
15	The Dynamics of Energy Dissipation and Xanthophyll Conversion in <i>Arabidopsis</i> Indicate an Indirect Photoprotective Role of Zeaxanthin in Slowly Inducible and Relaxing Components of Non-photochemical Quenching of Excitation Energy. <i>Frontiers in Plant Science</i> , 2017, 8, 2094.	3.6	52
16	Comparison of sister species identifies factors underpinning plastid compatibility in green sea slugs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142519.	2.6	44
17	Photoprotection in a monophyletic branch of chlorophyte algae is independent of energy-dependent quenching (qE). <i>New Phytologist</i> , 2017, 214, 1132-1144.	7.3	44
18	CO <sub>2</sub> availability rather than light and temperature determines growth and phenotypical responses in submerged <i>Myriophyllum aquaticum</i> . <i>Aquatic Botany</i> , 2013, 110, 31-37.	1.6	40

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19	The Arabidopsis Protein CONSERVED ONLY IN THE GREEN LINEAGE160 Promotes the Assembly of the Membranous Part of the Chloroplast ATP Synthase. <i>Plant Physiology</i> , 2014, 165, 207-226.	4.8	35
20	H <sup>+</sup> Transport by K <sup>+</sup> EXCHANGE ANTIPORTER3 Promotes Photosynthesis and Growth in Chloroplast ATP Synthase Mutants. <i>Plant Physiology</i> , 2020, 182, 2126-2142.	4.8	32
21	PsbS contributes to photoprotection in <i>Chlamydomonas reinhardtii</i> independently of energy dissipation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148183.	1.0	29
22	European native <i>Myriophyllum spicatum</i> showed a higher $\text{HCO}_3^-$ use capacity than alien invasive <i>Myriophyllum heterophyllum</i> . <i>Hydrobiologia</i> , 2015, 746, 171-182.	2.0	28
23	Why It Is Time to Look Beyond Algal Genes in Photosynthetic Slugs. <i>Genome Biology and Evolution</i> , 2015, 7, 2602-2607.	2.5	28
24	The Transiently Generated Nonphotochemical Quenching of Excitation Energy in Arabidopsis Leaves Is Modulated by Zeaxanthin. <i>Plant Physiology</i> , 2007, 143, 1861-1870.	4.8	23
25	Mg deficiency induces photo-oxidative stress primarily by limiting CO <sub>2</sub> assimilation and not by limiting photosynthetic light utilization. <i>Plant Science</i> , 2021, 302, 110751.	3.6	19
26	Switching off photosynthesis. <i>Communicative and Integrative Biology</i> , 2014, 7, e28029.	1.4	18
27	The Arabidopsis Protein CGLD11 Is Required for Chloroplast ATP Synthase Accumulation. <i>Molecular Plant</i> , 2016, 9, 885-899.	8.3	17
28	Plastoglobular protein 18 is involved in chloroplast function and thylakoid formation. <i>Journal of Experimental Botany</i> , 2019, 70, 3981-3993.	4.8	17
29	Stromal NADH supplied by PHOSPHOGLYCERATE DEHYDROGENASE3 is crucial for photosynthetic performance. <i>Plant Physiology</i> , 2021, 186, 142-167.	4.8	16
30	The Arabidopsis Protein CGL20 Is Required for Plastid 50S Ribosome Biogenesis. <i>Plant Physiology</i> , 2020, 182, 1222-1238.	4.8	14
31	Zeaxanthin Epoxidase Activity Is Downregulated by Hydrogen Peroxide. <i>Plant and Cell Physiology</i> , 2022, 63, 1091-1100.	3.1	13
32	Introduction of the Carotenoid Biosynthesis Î±-Branch Into <i>Synechocystis</i> sp. PCC 6803 for Lutein Production. <i>Frontiers in Plant Science</i> , 2021, 12, 699424.	3.6	9