

# AdjÃ©lÃ© Flore Wilson

## List of Publications by Year in descending order

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39  
papers

2,912  
citations

218677

26  
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330143

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42  
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42  
docs citations

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times ranked

1334  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Soluble Carotenoid Protein Involved in Phycobilisome-Related Energy Dissipation in Cyanobacteria. <i>Plant Cell</i> , 2006, 18, 992-1007.	6.6	396
2	A photoactive carotenoid protein acting as light intensity sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12075-12080.	7.1	324
3	A 12 Å... carotenoid translocation in a photoswitch associated with cyanobacterial photoprotection. <i>Science</i> , 2015, 348, 1463-1466.	12.6	192
4	In Vitro Reconstitution of the Cyanobacterial Photoprotective Mechanism Mediated by the Orange Carotenoid Protein in <i>Synechocystis</i> PCC 6803. <i>Plant Cell</i> , 2011, 23, 2631-2643.	6.6	171
5	Structural Determinants Underlying Photoprotection in the Photoactive Orange Carotenoid Protein of Cyanobacteria. <i>Journal of Biological Chemistry</i> , 2010, 285, 18364-18375.	3.4	152
6	Light-Induced Energy Dissipation in Iron-Starved Cyanobacteria: Roles of OCP and IsiA Proteins. <i>Plant Cell</i> , 2007, 19, 656-672.	6.6	134
7	Identification of a protein required for recovery of full antenna capacity in OCP-related photoprotective mechanism in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11620-11625.	7.1	125
8	The Cyanobacterial Photoactive Orange Carotenoid Protein Is an Excellent Singlet Oxygen Quencher Å. <i>Plant Cell</i> , 2014, 26, 1781-1791.	6.6	110
9	Influence of zeaxanthin and echinenone binding on the activity of the Orange Carotenoid Protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 280-288.	1.0	106
10	Crystal structure of the FRP and identification of the active site for modulation of OCP-mediated photoprotection in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10022-10027.	7.1	102
11	Structure, Diversity, and Evolution of a New Family of Soluble Carotenoid-Binding Proteins in Cyanobacteria. <i>Molecular Plant</i> , 2016, 9, 1379-1394.	8.3	83
12	Essential role of two tyrosines and two tryptophans on the photoprotection activity of the Orange Carotenoid Protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 293-301.	1.0	82
13	The Essential Role of the N-Terminal Domain of the Orange Carotenoid Protein in Cyanobacterial Photoprotection: Importance of a Positive Charge for Phycobilisome Binding. <i>Plant Cell</i> , 2012, 24, 1972-1983.	6.6	82
14	Photoactivation Mechanism, Timing of Protein Secondary Structure Dynamics and Carotenoid Translocation in the Orange Carotenoid Protein. <i>Journal of the American Chemical Society</i> , 2019, 141, 520-530.	13.7	80
15	Different Functions of the Paralogs to the N-Terminal Domain of the Orange Carotenoid Protein in the Cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Plant Physiology</i> , 2016, 171, 1852-1866.	4.8	76
16	Orange carotenoid protein burrows into the phycobilisome to provide photoprotection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1655-62.	7.1	75
17	The Photophysics of the Orange Carotenoid Protein, a Light-Powered Molecular Switch. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2568-2574.	2.6	70
18	Characterization of the <i>Synechocystis</i> PCC 6803 Fluorescence Recovery Protein involved in photoprotection. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 348-354.	1.0	62

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19	Biosynthesis of soluble carotenoid holoproteins in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2015, 5, 9085.	3.3	62
20	Paralogs of the C-Terminal Domain of the Cyanobacterial Orange Carotenoid Protein Are Carotenoid Donors to Helical Carotenoid Proteins. <i>Plant Physiology</i> , 2017, 175, 1283-1303.	4.8	52
21	Regulation of Orange Carotenoid Protein Activity in Cyanobacterial Photoprotection. <i>Plant Physiology</i> , 2015, 169, 737-747.	4.8	47
22	Structural rearrangements in the C-terminal domain homolog of Orange Carotenoid Protein are crucial for carotenoid transfer. <i>Communications Biology</i> , 2018, 1, 125.	4.4	39
23	Cytochrome c550 in the Cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 52869-52880.	3.4	36
24	Light-controlled carotenoid transfer between water-soluble proteins related to cyanobacterial photoprotection. <i>FEBS Journal</i> , 2019, 286, 1908-1924.	4.7	36
25	Ultrafast spectroscopy tracks carotenoid configurations in the orange and red carotenoid proteins from cyanobacteria. <i>Photosynthesis Research</i> , 2017, 131, 105-117.	2.9	30
26	Interdomain interactions reveal the molecular evolution of the orange carotenoid protein. <i>Nature Plants</i> , 2019, 5, 1076-1086.	9.3	30
27	The cyanobacterial Fluorescence Recovery Protein has two distinct activities: Orange Carotenoid Protein amino acids involved in FRP interaction. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 308-317.	1.0	28
28	Two-Step Structural Changes in Orange Carotenoid Protein Photoactivation Revealed by Time-Resolved Fourier Transform Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3259-3266.	2.6	24
29	Influence of Heme-Thiolate in Shaping the Catalytic Properties of a Bacterial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2011, 286, 39224-39235.	3.4	21
30	The Proximal Hydrogen Bond Network Modulates <i>Bacillus subtilis</i> Nitric-oxide Synthase Electronic and Structural Properties. <i>Journal of Biological Chemistry</i> , 2011, 286, 11997-12005.	3.4	20
31	Switching an Individual Phycobilisome Off and On. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2426-2432.	4.6	16
32	Structural dynamics in the C terminal domain homolog of orange carotenoid Protein reveals residues critical for carotenoid uptake. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148214.	1.0	13
33	Unifying Perspective of the Ultrafast Photodynamics of Orange Carotenoid Proteins from <i>Synechocystis</i> : Peril of High-Power Excitation, Existence of Different S* States, and Influence of Tagging. <i>Jacs Au</i> , 2022, 2, 1084-1095.	7.9	8
34	Light stress in green and red <i>Planktothrix</i> strains: The orange carotenoid protein and its related photoprotective mechanism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148037.	1.0	7
35	Structure-function-dynamics relationships in the peculiar <i>Planktothrix</i> PCC7805 OCP1: Impact of his-tagging and carotenoid type. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148584.	1.0	6
36	Elucidation of the essential amino acids involved in the binding of the cyanobacterial Orange Carotenoid Protein to the phycobilisome. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148504.	1.0	4

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37	Orange Carotenoid Protein (OCP) Related NPQ in Synechocystis PCC 6803 OCP-Phycobilisomes Interactions. , 2008, , 997-1000.		3
38	Immobilization of Orange Carotenoid Protein on mesoporous silica SBA-15 for the development of photoactivable nanodevices. Microporous and Mesoporous Materials, 2022, 340, 112007.	4.4	2
39	Light Induced Energy Dissipation in Iron-Starved Cyanobacteria. , 2008, , 1607-1610.		1