

# Alfred Batschauer

## List of Publications by Year in descending order

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47  
papers

3,717  
citations

159585

30  
h-index

243625

44  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2930  
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights into the regulation of Arabidopsis cryptochrome 1. <i>New Phytologist</i> , 2022, 234, 1109-1111.	7.3	3
2	Coregulation of gene expression by White collar 1 and phytochrome in <i>Ustilago maydis</i> . <i>Fungal Genetics and Biology</i> , 2021, 152, 103570.	2.1	3
3	The Arabidopsis cryptochrome 2 I404F mutant is hypersensitive and shows flavin reduction even in the absence of light. <i>Planta</i> , 2020, 251, 33.	3.2	1
4	The DASH-type Cryptochrome from the Fungus <i>Mucor circinelloides</i> Is a Canonical CPD-Photolyase. <i>Current Biology</i> , 2020, 30, 4483-4490.e4.	3.9	19
5	DASH-type cryptochromes—solved and open questions. <i>Biological Chemistry</i> , 2020, 401, 1487-1493.	2.5	29
6	Opsin 1 and Opsin 2 of the Corn Smut Fungus <i>Ustilago maydis</i> Are Green Light-Driven Proton Pumps. <i>Frontiers in Microbiology</i> , 2019, 10, 735.	3.5	21
7	Two CONSTANS-LIKE genes jointly control flowering time in beet. <i>Scientific Reports</i> , 2018, 8, 16120.	3.3	18
8	ATP boosts lit state formation and activity of Arabidopsis cryptochrome 2. <i>Plant Journal</i> , 2018, 96, 389-403.	5.7	14
9	Hyperactivity of the Arabidopsis cryptochrome (cry1) L407F mutant is caused by a structural alteration close to the cry1 ATP-binding site. <i>Journal of Biological Chemistry</i> , 2017, 292, 12906-12920.	3.4	5
10	Flavin Adenine Dinucleotide and N <sup>5</sup> ,N <sup>10</sup> -Methenyltetrahydrofolate are the Cofactors of Arabidopsis thaliana Cryptochrome 3. <i>Photochemistry and Photobiology</i> , 2017, 93, 355-362.	2.5	7
11	White collar 1-induced photolyase expression contributes to UV tolerance of <i>Ustilago maydis</i> . <i>MicrobiologyOpen</i> , 2016, 5, 224-243.	3.0	52
12	Shadow on the Plant: A Strategy to Exit. <i>Cell</i> , 2016, 164, 15-17.	28.9	28
13	Biochemical Characterization of the DASH-type Cryptochrome C <sub>ry</sub> D From <i>Fusarium fujikuroi</i> . <i>Photochemistry and Photobiology</i> , 2015, 91, 1356-1367.	2.5	14
14	Fungal cryptochrome with DNA repair activity reveals an early stage in cryptochrome evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15130-15135.	7.1	72
15	Cellular Metabolites Enhance the Light Sensitivity of Arabidopsis Cryptochrome through Alternate Electron Transfer Pathways. <i>Plant Cell</i> , 2014, 26, 4519-4531.	6.6	58
16	Structural and Evolutionary Aspects of Antenna Chromophore Usage by Class II Photolyases. <i>Journal of Biological Chemistry</i> , 2014, 289, 19659-19669.	3.4	39
17	Lifetimes of Arabidopsis cryptochrome signaling states in vivo. <i>Plant Journal</i> , 2013, 74, 583-592.	5.7	48
18	Degradation of Arabidopsis CRY2 Is Regulated by SPA Proteins and Phytochrome A. <i>Plant Cell</i> , 2012, 24, 2610-2623.	6.6	54

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19	The Cryptochromes: Blue Light Photoreceptors in Plants and Animals. Annual Review of Plant Biology, 2011, 62, 335-364.	18.7	723
20	Crystal structures of an archaeal class II DNA photolyase and its complex with UV-damaged duplex DNA. EMBO Journal, 2011, 30, 4437-4449.	7.8	82
21	A Photolyase-Like Protein from Agrobacterium tumefaciens with an Iron-Sulfur Cluster. PLoS ONE, 2011, 6, e26775.	2.5	59
22	Photoreaction of Plant and DASH Cryptochromes Probed by Infrared Spectroscopy: The Neutral Radical State of Flavoproteins. Journal of Physical Chemistry B, 2010, 114, 17155-17161.	2.6	36
23	A Gain-of-Function Mutation of Arabidopsis CRYPTOCHROME1 Promotes Flowering. Plant Physiology, 2010, 154, 1633-1645.	4.8	43
24	Photoreduction of the Folate Cofactor in Members of the Photolyase Family. Journal of Biological Chemistry, 2009, 284, 21670-21683.	3.4	25
25	Increased DNA repair in Arabidopsis plants overexpressing CPD photolyase. Planta, 2009, 230, 505-515.	3.2	45
26	A cryptochrome-like protein is involved in the regulation of photosynthesis genes in <i>Rhodospira rubra</i> . Molecular Microbiology, 2009, 74, 990-1003.	2.5	41
27	Recognition and repair of UV lesions in loop structures of duplex DNA by DASH-type cryptochrome. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 21023-21027.	7.1	147
28	Chemically Induced and Light-Independent Cryptochrome Photoreceptor Activation. Molecular Plant, 2008, 1, 4-14.	8.3	42
29	The Signaling State of Arabidopsis Cryptochrome 2 Contains Flavin Semiquinone. Journal of Biological Chemistry, 2007, 282, 14916-14922.	3.4	227
30	Cryptochrome 3 from Arabidopsis thaliana: Structural and Functional Analysis of its Complex with a Folate Light Antenna. Journal of Molecular Biology, 2007, 366, 954-964.	4.2	74
31	Cryptochrome Blue Light Photoreceptors Are Activated through Interconversion of Flavin Redox States. Journal of Biological Chemistry, 2007, 282, 9383-9391.	3.4	349
32	Blue-Light-Induced Changes in Arabidopsis Cryptochrome 1 Probed by FTIR Difference Spectroscopy. Biochemistry, 2006, 45, 2472-2479.	2.5	103
33	Functional and expression analysis of Arabidopsis SPA genes during seedling photomorphogenesis and adult growth. Plant Journal, 2006, 47, 577-590.	5.7	75
34	Natural and Non-natural Antenna Chromophores in the DNA Photolyase from Thermus Thermophilus. ChemBioChem, 2006, 7, 1798-1806.	2.6	48
35	Plant Cryptochromes: Their Genes, Biochemistry, and Physiological Roles. , 2005, , 211-246.		6
36	Plant blue-light receptors. Planta, 2005, 220, 498-502.	3.2	91

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37	Crystallization and preliminary X-ray analysis of cryptochrome 3 from <i>Arabidopsis thaliana</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 935-938.	0.7	22
38	A rapid and versatile combined DNA/RNA extraction protocol and its application to the analysis of a novel DNA marker set polymorphic between <i>Arabidopsis thaliana</i> ecotypes Col-0 and Landsberg erecta. <i>Plant Methods</i> , 2005, 1, 4.	4.3	67
39	An <i>Arabidopsis</i> protein closely related to <i>Synechocystis</i> cryptochrome is targeted to organelles. <i>Plant Journal</i> , 2003, 35, 93-103.	5.7	190
40	Novel ATP-binding and autophosphorylation activity associated with <i>Arabidopsis</i> and human cryptochrome-1. <i>FEBS Journal</i> , 2003, 270, 2921-2928.	0.2	89
41	Nuclear localization of the <i>Arabidopsis</i> blue light receptor cryptochrome 2. <i>Plant Journal</i> , 1999, 19, 289-296.	5.7	125
42	Class II DNA photolyase from <i>Arabidopsis thaliana</i> contains FAD as a cofactor. <i>FEBS Journal</i> , 1999, 264, 161-167.	0.2	40
43	Blue and UV-A light-regulated CHS expression in <i>Arabidopsis</i> independent of phytochrome A and phytochrome B. <i>Plant Journal</i> , 1996, 9, 63-69.	5.7	81
44	Cis-acting elements of the CHS1 gene from white mustard controlling promoter activity and spatial patterns of expression. <i>Plant Molecular Biology</i> , 1995, 28, 231-243.	3.9	27
45	Putative Blue-Light Photoreceptors from <i>Arabidopsis thaliana</i> and <i>Sinapis alba</i> with a High Degree of Sequence Homology to DNA Photolyase Contain the Two Photolyase Cofactors but Lack DNA Repair Activity. <i>Biochemistry</i> , 1995, 34, 6892-6899.	2.5	264
46	A plant gene for photolyase: an enzyme catalyzing the repair of UV-light-induced DNA damage. <i>Plant Journal</i> , 1993, 4, 705-709.	5.7	111
47	Cryptochromes. , 0, , 17-48.		0