

# Andreas Winkler

## List of Publications by Year in descending order

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36  
papers

1,632  
citations

331670

21  
h-index

345221

36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1944  
citing authors

#	ARTICLE	IF	CITATIONS
1	LOVTRAP: an optogenetic system for photoinduced protein dissociation. <i>Nature Methods</i> , 2016, 13, 755-758.	19.0	267
2	A concerted mechanism for berberine bridge enzyme. <i>Nature Chemical Biology</i> , 2008, 4, 739-741.	8.0	127
3	Molecular Mechanisms of Bacterial Bioluminescence. <i>Computational and Structural Biotechnology Journal</i> , 2018, 16, 551-564.	4.1	108
4	Biochemical Evidence That Berberine Bridge Enzyme Belongs to a Novel Family of Flavoproteins Containing a Bi-covalently Attached FAD Cofactor. <i>Journal of Biological Chemistry</i> , 2006, 281, 21276-21285.	3.4	107
5	The family of berberine bridge enzyme-like enzymes: A treasure-trove of oxidative reactions. <i>Archives of Biochemistry and Biophysics</i> , 2017, 632, 88-103.	3.0	100
6	Long-range allosteric signaling in red light-regulated diguanylyl cyclases. <i>Science Advances</i> , 2017, 3, e1602498.	10.3	87
7	Biocatalytic Enantioselective Oxidative C-C Coupling by Aerobic C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1068-1071.	13.8	72
8	A ternary AppA-Pps-DNA complex mediates light regulation of photosynthesis-related gene expression. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 859-867.	8.2	62
9	Old Yellow Enzyme-Catalyzed Dehydrogenation of Saturated Ketones. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 268-274.	4.3	54
10	6-S-Cysteinylation of Bi-covalently Attached FAD in Berberine Bridge Enzyme Tunes the Redox Potential for Optimal Activity. <i>Journal of Biological Chemistry</i> , 2007, 282, 24437-24443.	3.4	52
11	Asymmetric activation mechanism of a homodimeric red light-regulated photoreceptor. <i>ELife</i> , 2018, 7, .	6.0	46
12	Photoactivation Mechanism of a Bacterial Light-Regulated Adenylyl Cyclase. <i>Journal of Molecular Biology</i> , 2017, 429, 1336-1351.	4.2	45
13	Structure-guided design and functional characterization of an artificial red light-regulated guanylate/adenylyl cyclase for optogenetic applications. <i>Journal of Biological Chemistry</i> , 2018, 293, 9078-9089.	3.4	45
14	Bacteriophytochromes from informative model systems of phytochrome function to powerful tools in cell biology. <i>Current Opinion in Structural Biology</i> , 2019, 57, 72-83.	5.7	44
15	Structural and Mechanistic Studies Reveal the Functional Role of Bicovalent Flavinylation in Berberine Bridge Enzyme. <i>Journal of Biological Chemistry</i> , 2009, 284, 19993-20001.	3.4	43
16	Hexicon 2: Automated Processing of Hydrogen-Deuterium Exchange Mass Spectrometry Data with Improved Deuteration Distribution Estimation. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1018-1028.	2.8	43
17	Functional Roles of the 6-S-Cysteinylyl, 8-Histidyl FAD in Glucooligosaccharide Oxidase from <i>Acremonium strictum</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 30990-30996.	3.4	32
18	Rapid access to glycopeptide antibiotic precursor peptides coupled with cytochrome P450-mediated catalysis: towards a biomimetic synthesis of glycopeptide antibiotics. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2012-2021.	2.8	30

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19	Berberine bridge enzyme catalyzes the six electron oxidation of (S)-reticuline to dehydroscoulerine. <i>Phytochemistry</i> , 2009, 70, 1092-1097.	2.9	28
20	Characterization of Elements Involved in Allosteric Light Regulation of Phosphodiesterase Activity by Comparison of Different Functional BlrP1 States. <i>Journal of Molecular Biology</i> , 2014, 426, 853-868.	4.2	28
21	Structural Details of Light Activation of the LOV2-based Photoswitch PA-Rac1. <i>ACS Chemical Biology</i> , 2015, 10, 502-509.	3.4	20
22	Oxidation of the FAD cofactor to the 8-formyl-derivative in human electron-transferring flavoprotein. <i>Journal of Biological Chemistry</i> , 2018, 293, 2829-2840.	3.4	18
23	The scope of flavin-dependent reactions and processes in the model plant <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2021, 189, 112822.	2.9	18
24	The single berberine bridge enzyme homolog of <i>Physcomitrella patens</i> is a cellobiose oxidase. <i>FEBS Journal</i> , 2018, 285, 1923-1943.	4.7	17
25	Rescuing DNA repair activity by rewiring the H-atom transfer pathway in the radical SAM enzyme, spore photoproduct lyase. <i>Chemical Communications</i> , 2014, 50, 14201-14204.	4.1	16
26	Influence of the N-terminal segment and the PHY-tongue element on light-regulation in bacteriophytochromes. <i>Journal of Biological Chemistry</i> , 2019, 294, 4498-4510.	3.4	15
27	Catalytic and Structural Role of a Conserved Active Site Histidine in Berberine Bridge Enzyme. <i>Biochemistry</i> , 2012, 51, 6139-6147.	2.5	14
28	Distinct chromophore-protein environments enable asymmetric activation of a bacteriophytochrome-activated diguanylate cyclase. <i>Journal of Biological Chemistry</i> , 2020, 295, 539-551.	3.4	14
29	Structural and biochemical properties of LuxF from <i>Photobacterium leiognathi</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1466-1475.	2.3	13
30	Multi-PAS domain-mediated protein oligomerization of PpsR from <i>Rhodobacter sphaeroides</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 863-876.	2.5	11
31	Applications of hydrogen deuterium exchange (HDX) for the characterization of conformational dynamics in light-activated photoreceptors. <i>Frontiers in Molecular Biosciences</i> , 2015, 2, 33.	3.5	10
32	A small molecule chaperone rescues the stability and activity of a cancer-associated variant of NAD(P)H:quinone oxidoreductase 1 <i>in vitro</i> . <i>FEBS Letters</i> , 2020, 594, 424-438.	2.8	7
33	The Trimeric Major Capsid Protein of Mavirus is stabilized by its Interlocked N-termini Enabling Core Flexibility for Capsid Assembly. <i>Journal of Molecular Biology</i> , 2021, 433, 166859.	4.2	5
34	The PHY Domain Dimer Interface of Bacteriophytochromes Mediates Cross-talk between Photosensory Modules and Output Domains. <i>Journal of Molecular Biology</i> , 2021, 433, 167092.	4.2	3
35	Characterisation of sequence-structure-function space in sensor-effector integrators of phytochrome-regulated diguanylate cyclases. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 1761-1779.	2.9	3
36	Cover Picture: Biocatalytic Enantioselective Oxidative C-C Coupling by Aerobic C-H Activation ( <i>Angew. Chem. Int. Ed.</i> 5/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 967-967.	13.8	0