

Martin Byrdin

List of Publications by Year in descending order

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37
papers

3,020
citations

236925

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all docs

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docs citations

37
times ranked

3047
citing authors

#	ARTICLE	IF	CITATIONS
1	Pushing the limits of flash photolysis to unravel the secrets of biological electron and proton transfer. <i>Photochemical and Photobiological Sciences</i> , 2022, , 1.	2.9	0
2	Mechanism and dynamics of fatty acid photodecarboxylase. <i>Science</i> , 2021, 372, .	12.6	93
3	Mechanistic Investigations of Green mEos4b Reveal a Dynamic Long-Lived Dark State. <i>Journal of the American Chemical Society</i> , 2020, 142, 10978-10988.	13.7	29
4	Photoswitching mechanism of a fluorescent protein revealed by time-resolved crystallography and transient absorption spectroscopy. <i>Nature Communications</i> , 2020, 11, 741.	12.8	56
5	Mechanistic investigation of mEos4b reveals a strategy to reduce track interruptions in sptPALM. <i>Nature Methods</i> , 2019, 16, 707-710.	19.0	43
6	NMR Reveals Light-Induced Changes in the Dynamics of a Photoswitchable Fluorescent Protein. <i>Biophysical Journal</i> , 2019, 117, 2087-2100.	0.5	10
7	A Long-Lived Triplet State Is the Entrance Gateway to Oxidative Photochemistry in Green Fluorescent Proteins. <i>Journal of the American Chemical Society</i> , 2018, 140, 2897-2905.	13.7	32
8	Chromophore twisting in the excited state of a photoswitchable fluorescent protein captured by time-resolved serial femtosecond crystallography. <i>Nature Chemistry</i> , 2018, 10, 31-37.	13.6	152
9	Global spectroscopic analysis to study the regulation of the photosynthetic proton motive force: A critical reappraisal. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 676-683.	1.0	6
10	Serial Femtosecond Crystallography and Ultrafast Absorption Spectroscopy of the Photoswitchable Fluorescent Protein IrisFP. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 882-887.	4.6	43
11	Rational design of enhanced photoresistance in a photoswitchable fluorescent protein. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 014004.	2.3	16
12	Phototransformable fluorescent proteins: Future challenges. <i>Current Opinion in Chemical Biology</i> , 2014, 20, 92-102.	6.1	73
13	Structural Basis of Photoswitching in Fluorescent Proteins. <i>Methods in Molecular Biology</i> , 2014, 1148, 177-202.	0.9	15
14	Structural Evidence for a Two-Regime Photobleaching Mechanism in a Reversibly Switchable Fluorescent Protein. <i>Journal of the American Chemical Society</i> , 2013, 135, 15841-15850.	13.7	61
15	DNA photolyase: Is the nonproductive back electron transfer really much slower than forward transfer?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1462; author reply E1463.	7.1	10
16	The Cryptochromes: Blue Light Photoreceptors in Plants and Animals. <i>Annual Review of Plant Biology</i> , 2011, 62, 335-364.	18.7	723
17	Kinetics of cyclobutane thymine dimer splitting by DNA photolyase directly monitored in the UV. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9402-9407.	7.1	78
18	Reaction mechanisms of DNA photolyase. <i>Current Opinion in Structural Biology</i> , 2010, 20, 693-701.	5.7	170

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19	Quantum Yield Measurements of Short-Lived Photoactivation Intermediates in DNA Photolyase: Toward a Detailed Understanding of the Triple Tryptophan Electron Transfer Chain. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3207-3214.	2.5	53
20	DNA Repair by Photolyase: A Novel Substrate with Low Background Absorption around 265 nm for Transient Absorption Studies in the UV. <i>Biochemistry</i> , 2010, 49, 297-303.	2.5	20
21	Very Fast Product Release and Catalytic Turnover of DNA Photolyase. <i>ChemBioChem</i> , 2009, 10, 1777-1780.	2.6	17
22	What Makes the Difference between a Cryptochrome and DNA Photolyase? A Spectroelectrochemical Comparison of the Flavin Redox Transitions. <i>Journal of the American Chemical Society</i> , 2009, 131, 426-427.	13.7	68
23	Use of ruthenium dyes for subnanosecond detector fidelity testing in real time transient absorption. <i>Review of Scientific Instruments</i> , 2009, 80, 043102.	1.3	28
24	Removal of the PsaF Polypeptide Biases Electron Transfer in Favor of the PsaB Branch of Cofactors in Triton X-100 Photosystem I Complexes from <i>Synechococcus</i> sp. PCC 7002. <i>Photochemistry and Photobiology</i> , 2008, 84, 1371-1380.	2.5	7
25	Additive Effect of Mutations Affecting the Rate of Phylloquinone Reoxidation and Directionality of Electron Transfer within Photosystem I. <i>Photochemistry and Photobiology</i> , 2008, 84, 1381-1387.	2.5	23
26	Electron Hopping through the 15 Å... Triple Tryptophan Molecular Wire in DNA Photolyase Occurs within 30 ps. <i>Journal of the American Chemical Society</i> , 2008, 130, 14394-14395.	13.7	101
27	Polarized Transient Absorption To Resolve Electron Transfer between Tryptophans in DNA Photolyase. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6866-6871.	2.6	28
28	Observation of an Intermediate Tryptophanyl Radical in W306F Mutant DNA Photolyase from <i>Escherichia coli</i> Supports Electron Hopping along the Triple Tryptophan Chain. <i>Biochemistry</i> , 2007, 46, 10072-10077.	2.5	21
29	Assignment of a kinetic component to electron transfer between iron-sulfur clusters FX and FA/B of Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1529-1538.	1.0	44
30	Role of the Middle Residue in the Triple Tryptophan Electron Transfer Chain of DNA Photolyase: Ultrafast Spectroscopy of a Trp ⁺ Phe Mutant. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15654-15658.	2.6	31
31	Light-induced Electron Transfer in Arabidopsis Cryptochrome-1 Correlates with in Vivo Function. <i>Journal of Biological Chemistry</i> , 2005, 280, 19437-19440.	3.4	138
32	P700 ⁺ - and 3P700-induced quenching of the fluorescence at 760 nm in trimeric Photosystem I complexes from the cyanobacterium <i>Arthrospira platensis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1706, 53-67.	1.0	75
33	Intraprotein electron transfer and proton dynamics during photoactivation of DNA photolyase from <i>E. coli</i> : review and new insights from an inverse-deuterium isotope effect. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1655, 64-70.	1.0	79
34	Light-induced electron transfer in a cryptochrome blue-light photoreceptor. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 489-490.	8.2	248
35	Dissection of the triple tryptophan electron transfer chain in <i>Escherichia coli</i> DNA photolyase: Trp382 is the primary donor in photoactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8676-8681.	7.1	101
36	Light Harvesting in Photosystem I: Modeling Based on the 2.5-Å... Structure of Photosystem I from <i>Synechococcus elongatus</i> . <i>Biophysical Journal</i> , 2002, 83, 433-457.	0.5	187

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37	Decay Kinetics and Quantum Yields of Fluorescence in Photosystem I from <i>Synechococcus elongatus</i> with P700 in the Reduced and Oxidized State: Are the Kinetics of Excited State Decay Trap-Limited or Transfer-Limited?. <i>Biophysical Journal</i> , 2000, 79, 992-1007.	0.5	141