

Chuang Tan

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

1,081
citations

623734

14
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

1124
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics and mechanism of repair of ultraviolet-induced (6â€“4) photoproduct by photolyase. <i>Nature</i> , 2010, 466, 887-890.	27.8	186
2	Dynamics and mechanism of cyclobutane pyrimidine dimer repair by DNA photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14831-14836.	7.1	144
3	Ultrafast Dynamics and Anionic Active States of the Flavin Cofactor in Cryptochrome and Photolyase. <i>Journal of the American Chemical Society</i> , 2008, 130, 7695-7701.	13.7	132
4	<i>Arabidopsis</i> cryptochrome 2 (CRY2) functions by the photoactivation mechanism distinct from the tryptophan (trp) triad-dependent photoreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20844-20849.	7.1	94
5	Determining complete electron flow in the cofactor photoreduction of oxidized photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12966-12971.	7.1	83
6	Ultrafast solvation dynamics at binding and active sites of photolyases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2914-2919.	7.1	70
7	Mfd Dynamically Regulates Transcription via a Release and Catch-Up Mechanism. <i>Cell</i> , 2018, 172, 344-357.e15.	28.9	65
8	Comparative Photochemistry of Animal Type 1 and Type 4 Cryptochromes. <i>Biochemistry</i> , 2009, 48, 8585-8593.	2.5	62
9	Electron Tunneling Pathways and Role of Adenine in Repair of Cyclobutane Pyrimidine Dimer by DNA Photolyase. <i>Journal of the American Chemical Society</i> , 2012, 134, 8104-8114.	13.7	59
10	The molecular origin of high DNA-repair efficiency by photolyase. <i>Nature Communications</i> , 2015, 6, 7302.	12.8	59
11	Dynamic determination of the functional state in photolyase and the implication for cryptochrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12972-12977.	7.1	46
12	Transcription factor regulation of RNA polymeraseâ€™s torque generation capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2583-2588.	7.1	36
13	Direct Determination of Resonance Energy Transfer in Photolyase: Structural Alignment for the Functional State. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10522-10530.	2.5	21
14	Dynamic Determination of Active-Site Reactivity in Semiquinone Photolyase by the Cofactor Photoreduction. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 820-825.	4.6	18
15	Single-Molecule Angular Optical Trapping for Studying Transcription Under Torsion. <i>Methods in Molecular Biology</i> , 2018, 1805, 301-332.	0.9	6