Chuang Tan

List of Publications by Year
in descending order

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15	1,081	623734 14	996975 15
papers	citations	h-index	g-index

15	15	15	1124
all docs	docs citations	times ranked	citing authors

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