Cassandra D M Churchill

List of Publications by Year
in descending order

20 papers	439 citations	759055 12 h-index	752573 20 g-index
20 all docs	20 docs citations	20 times ranked	680 citing authors

#	Article	IF	Citations
1	Noncovalent Interactions Involving Histidine: The Effect of Charge on Ï€âˆ'Ï€ Stacking and T-Shaped Interactions with the DNA Nucleobases. Journal of Physical Chemistry B, 2009, 113, 16046-16058.	1.2	80
2	Effects of the biological backbone on stacking interactions at DNAâ€"protein interfaces: the interplay between the backboneâ‹¯Ï€ and Ï€â‹¯Ï€ components. Physical Chemistry Chemical Physics, 2010, 12, 14515.	1.3	43
3	Developing a computational model that accurately reproduces the structural features of a dinucleoside monophosphate unit within B-DNA. Physical Chemistry Chemical Physics, 2011, 13, 16373.	1.3	43
4	A Preliminary Investigation of the Additivity of Ï€âˆ'Ï€ or Ï€⁺âˆ'Ï€ Stacking and T-Shaped Interactions between Natural or Damaged DNA Nucleobases and Histidine. Journal of Physical Chemistry B, 2010, 114, 3355-3367.	1.2	33
5	The Unique Binding Mode of Laulimalide to Two Tubulin Protofilaments. Chemical Biology and Drug Design, 2015, 86, 190-199.	1.5	27
6	Effects of the biological backbone on DNAâ€"protein stacking interactions. Physical Chemistry Chemical Physics, 2009, 11, 10657.	1.3	25
7	Evaluating How Discrete Water Molecules Affect Proteinâ€"DNA Ï€â€"Ï€ and Ï€+â€"Ï€ Stacking and T-Shaped Interactions: The Case of Histidine-Adenine Dimers. Journal of Physical Chemistry B, 2011, 115, 10990-11003.	1.2	24
8	Elucidating the Mechanism of Action of the Clinically Approved Taxanes: A Comprehensive Comparison of Local and Allosteric Effects. Chemical Biology and Drug Design, 2015, 86, 1253-1266.	1.5	22
9	A new antiproliferative noscapine analogue: chemical synthesis and biological evaluation. Oncotarget, 2016, 7, 40518-40530.	0.8	21
10	Effect of Watsonâ"Crick and Hoogsteen Base Pairing on the Conformational Stability of C8-Phenoxyl-2â€²-deoxyguanosine Adducts. Journal of Physical Chemistry B, 2010, 114, 12995-13004.	1.2	17
11	Analysis of the binding mode of laulimalide to microtubules: Establishing a laulimalideâ€"tubulin pharmacophore. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1455-1469.	2.0	16
12	Formation Mechanism and Structure of a Guanineâ€"Uracil DNA Intrastrand Cross-Link. Chemical Research in Toxicology, 2011, 24, 2189-2199.	1.7	15
13	Mathematical and computational modeling in biology at multiple scales. Theoretical Biology and Medical Modelling, 2014, 11, 52.	2.1	12
14	Inactivation of Protein Tyrosine Phosphatases by Peracids Correlates with the Hydrocarbon Chain Length. Cellular Physiology and Biochemistry, 2015, 36, 1069-1083.	1.1	12
15	Probing the Basis of Î±-Synuclein Aggregation byÂComparing Simulations to Single-Molecule Experiments. Biophysical Journal, 2019, 117, 1125-1135.	0.2	11
16	Designing and Testing of Novel Taxanes to Probe the Highly Complex Mechanisms by Which Taxanes Bind to Microtubules and Cause Cytotoxicity to Cancer Cells. PLoS ONE, 2015, 10, e0129168.	1.1	11
17	DNA Distortion Caused by Uracil-Containing Intrastrand Cross-Links. Journal of Physical Chemistry B, 2016, 120, 1195-1204.	1.2	10
18	Synthesis and biological evaluation of structurally simplified noscapine analogues as microtubule binding agents. Canadian Journal of Chemistry, 2017, 95, 649-655.	0.6	10

#	Article	IF	Citations
19	The fragment molecular orbital method and understanding monomer polarization. Chemical Physics Letters, 2012, 554, 185-189.	1.2	5
20	Molecular Dynamics and Related Computational Methods with Applications to Drug Discovery. Springer Proceedings in Mathematics and Statistics, 2018, , 267-285.	0.1	2