David Giganti

List of Publications by Year
in descending order

20 papers	806 citations	687363 13 h-index	940533 16 g-index
21 all docs	21 docs citations	21 times ranked	1316 citing authors

#	Article	IF	Citations
1	S-Glutathionylation of Cryptic Cysteines Enhances Titin Elasticity by Blocking Protein Folding. Cell, 2014, 156, 1235-1246.	28.9	170
2	Molecular Recognition and Interfacial Catalysis by the Essential Phosphatidylinositol Mannosyltransferase PimA from Mycobacteria. Journal of Biological Chemistry, 2007, 282, 20705-20714.	3.4	121
3	Elasticity, structure, and relaxation of extended proteins under force. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3847-3852.	7.1	81
4	Structure-function relationships of membrane-associated GT-B glycosyltransferases. Glycobiology, 2014, 24, 108-124.	2.5	80
5	Disulfide isomerization reactions in titin immunoglobulinÂdomains enable a mode of protein elasticity. Nature Communications, 2018, 9, 185.	12.8	70
6	Comparative Evaluation of 3D Virtual Ligand Screening Methods: Impact of the Molecular Alignment on Enrichment. Journal of Chemical Information and Modeling, 2010, 50, 992-1004.	5.4	52
7	Secondary structure reshuffling modulates glycosyltransferase function at the membrane. Nature Chemical Biology, 2015, 11, 16-18.	8.0	44
8	The force-dependent mechanism of DnaK-mediated mechanical folding. Science Advances, 2018, 4, eaaq0243.	10.3	37
9	Substrate-induced Conformational Changes in the Essential Peripheral Membrane-associated Mannosyltransferase PimA from Mycobacteria. Journal of Biological Chemistry, 2009, 284, 21613-21625.	3.4	35
10	Conformational Plasticity of the Essential Membrane-associated Mannosyltransferase PimA from Mycobacteria. Journal of Biological Chemistry, 2013, 288, 29797-29808.	3.4	24
11	Three Dimensional Structure and Implications for the Catalytic Mechanism of 6-Phosphogluconolactonase from Trypanosoma brucei. Journal of Molecular Biology, 2007, 366, 868-881.	4.2	21
12	In Silico Screening on the Three-dimensional Model of the Plasmodium vivax SUB1 Protease Leads to the Validation of a Novel Anti-parasite Compound. Journal of Biological Chemistry, 2013, 288, 18561-18573.	3.4	21
13	A novel Plasmodium-specific prodomain fold regulates the malaria drug target SUB1 subtilase. Nature Communications, 2014, 5, 4833.	12.8	20
14	Conformational entropy of a single peptide controlled under force governs protease recognition and catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11525-11530.	7.1	11
15	Basal oxidation of conserved cysteines modulates cardiac titin stiffness and dynamics. Redox Biology, 2022, 52, 102306.	9.0	7
16	Dissecting the Structural and Chemical Determinants of the â€œOpen-to-Closedâ€•Motion in the Mannosyltransferase PimA from Mycobacteria. Biochemistry, 2020, 59, 2934-2945.	2.5	5
17	Disulfide Bonds are Allosteric Regulator of Mechanical Stability. Biophysical Journal, 2014, 106, 449a-450a.	0.5	0
18	Large-Scale Modulation of Titin Elasticity by S-Glutathionylation of Cryptic Cysteines. Biophysical Journal, 2014, 106, 454a.	0.5	0

#	Article	IF	Citations
19	Chaperone-Mediated Mechanical Protein Folding at the Single Molecule Level. Biophysical Journal, 2016, 110, 392a.	0.5	0
20	Mechanical Modulation of Protease Activity Captured at the Single-Molecule Level. Biophysical Journal, 2017, 112, 456a.	0.5	0