

# David De Sancho

## List of Publications by Year in descending order

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51  
papers

1,393  
citations

331538

21  
h-index

360920

35  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Folding and Unfolding Rates of Proteins with Simple Models. <i>Methods in Molecular Biology</i> , 2022, 2376, 365-372.	0.4	0
2	Influence of the Nonprotein Amino Acid Mimosine in Peptide Conformational Propensities from Novel Amber Force Field Parameters. <i>Journal of Physical Chemistry B</i> , 2022, , .	1.2	0
3	Nanomechanical Phenotypes in Cardiac Myosin-Binding Protein C Mutants That Cause Hypertrophic Cardiomyopathy. <i>ACS Nano</i> , 2021, 15, 10203-10216.	7.3	16
4	Markov state models from hierarchical density-based assignment. <i>Journal of Chemical Physics</i> , 2021, 155, 054102.	1.2	0
5	Mechanism of Hydrogen Sulfide-Dependent Inhibition of FeFe Hydrogenase. <i>ACS Catalysis</i> , 2021, 11, 15162-15176.	5.5	13
6	Slow Folding of a Helical Protein: Large Barriers, Strong Internal Friction, or a Shallow, Bumpy Landscape?. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8973-8983.	1.2	3
7	Competitive binding of HIF-1 $\alpha$ and CITED2 to the TAZ1 domain of CBP from molecular simulations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8118-8127.	1.3	15
8	Theoretical characterization of Al(III) binding to KSPVPKSPVEEKG: Insights into the propensity of aluminum to interact with key sequences for neurofilament formation. <i>Journal of Inorganic Biochemistry</i> , 2020, 210, 111169.	1.5	1
9	Independent Tuning of Viscous and Elastic Properties of Protein Biomaterials. <i>Biophysical Journal</i> , 2020, 118, 163a-164a.	0.2	0
10	MasterMSM: A Package for Constructing Master Equation Models of Molecular Dynamics. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3625-3629.	2.5	5
11	Resurrection of efficient Precambrian endoglucanases for lignocellulosic biomass hydrolysis. <i>Communications Chemistry</i> , 2019, 2, .	2.0	21
12	An Abl-FBP17 mechanosensing system couples local plasma membrane curvature and stress fiber remodeling during mechanoadaptation. <i>Nature Communications</i> , 2019, 10, 5828.	5.8	50
13	The life of proteins under mechanical force. <i>Chemical Society Reviews</i> , 2018, 47, 3558-3573.	18.7	26
14	Reversible two-state folding of the ultrafast protein gpW under mechanical force. <i>Communications Chemistry</i> , 2018, 1, .	2.0	16
15	Mechanical architecture and folding of E. coli type 1 pilus domains. <i>Nature Communications</i> , 2018, 9, 2758.	5.8	55
16	MSM/RD: Coupling Markov state models of molecular kinetics with reaction-diffusion simulations. <i>Journal of Chemical Physics</i> , 2018, 148, 214107.	1.2	25
17	Instrumental Effects in the Dynamics of an Ultrafast Folding Protein under Mechanical Force. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11147-11154.	1.2	15
18	Complex Dynamics in Single Molecule Force Spectroscopy from Simple Simulation Models. <i>Biophysical Journal</i> , 2017, 112, 196a.	0.2	1

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19	Interplay between the folding mechanism and binding modes in folding coupled to binding processes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28512-28516.	1.3	10
20	The influence of disulfide bonds on the mechanical stability of proteins is context dependent. <i>Journal of Biological Chemistry</i> , 2017, 292, 13374-13380.	1.6	34
21	Mechanochemical evolution of the giant muscle protein titin as inferred from resurrected proteins. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 652-657.	3.6	30
22	Mechanism of O <sub>2</sub> diffusion and reduction in FeFe hydrogenases. <i>Nature Chemistry</i> , 2017, 9, 88-95.	6.6	105
23	Markov state models of protein misfolding. <i>Journal of Chemical Physics</i> , 2016, 144, 075101.	1.2	26
24	Mechanochemical Evolution of the Giant Muscle Protein Titin as Inferred from Ancient Proteins. <i>Biophysical Journal</i> , 2016, 110, 14a.	0.2	0
25	Computation of Rate Constants for Diffusion of Small Ligands to and from Buried Protein Active Sites. <i>Methods in Enzymology</i> , 2016, 578, 299-326.	0.4	5
26	Reconciling Intermediates in Mechanical Unfolding Experiments with Two-State Protein Folding in Bulk. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3798-3803.	2.1	13
27	The Power of Force: Insights into the Protein Folding Process Using Single-Molecule Force Spectroscopy. <i>Journal of Molecular Biology</i> , 2016, 428, 4245-4257.	2.0	27
28	Multifrequency Force Microscopy of Helical Protein Assembly on a Virus. <i>Scientific Reports</i> , 2016, 6, 21899.	1.6	13
29	Modulation of Folding Internal Friction by Local and Global Barrier Heights. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1028-1034.	2.1	15
30	Dependence of Internal Friction on Native Topology. <i>Biophysical Journal</i> , 2015, 108, 518a.	0.2	0
31	Bridging Experiments and Native-Centric Simulations of a Downhill Folding Protein. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14925-14933.	1.2	7
32	Dependence of Internal Friction on Folding Mechanism. <i>Journal of the American Chemical Society</i> , 2015, 137, 3283-3290.	6.6	41
33	The Response of Greek Key Proteins to Changes in Connectivity Depends on the Nature of Their Secondary Structure. <i>Journal of Molecular Biology</i> , 2015, 427, 2159-2165.	2.0	5
34	Identification of Mutational Hot Spots for Substrate Diffusion: Application to Myoglobin. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1919-1927.	2.3	12
35	Interplay between partner and ligand facilitates the folding and binding of an intrinsically disordered protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15420-15425.	3.3	144
36	Molecular origins of internal friction effects on protein-folding rates. <i>Nature Communications</i> , 2014, 5, 4307.	5.8	98

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37	Aerobic Damage to [FeFe]-Hydrogenases: Activation Barriers for the Chemical Attachment of $O_2$ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4081-4084.	7.2	26
38	Engineering Folding Dynamics from Two-State to Downhill: Application to $\lambda$ -Repressor. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13435-13443.	1.2	11
39	Folding Kinetics and Unfolded State Dynamics of the GB1 Hairpin from Molecular Simulation. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1743-1753.	2.3	35
40	Residue-Specific $\alpha$ -Helix Propensities from Molecular Simulation. <i>Biophysical Journal</i> , 2012, 102, 1462-1467.	0.2	97
41	Modulation of an IDP binding mechanism and rates by helix propensity and non-native interactions: association of HIF1 $\alpha$ with CBP. <i>Molecular BioSystems</i> , 2012, 8, 256-267.	2.9	83
42	Integrated prediction of protein folding and unfolding rates from only size and structural class. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17030.	1.3	58
43	What Is the Time Scale for $\alpha$ -Helix Nucleation?. <i>Journal of the American Chemical Society</i> , 2011, 133, 6809-6816.	6.6	68
44	Protein Folding Rates and Stability: How Much Is There Beyond Size?. <i>Journal of the American Chemical Society</i> , 2009, 131, 2074-2075.	6.6	67
45	Energy minimizations with a combination of two knowledge-based potentials for protein folding. <i>Journal of Computational Chemistry</i> , 2008, 29, 1684-1692.	1.5	7
46	Exploiting the downhill folding regime via experiment. <i>HFSP Journal</i> , 2008, 2, 342-353.	2.5	25
47	Evaluation of coarse grained models for hydrogen bonds in proteins. <i>Journal of Computational Chemistry</i> , 2007, 28, 1187-1199.	1.5	11
48	Evaluation of a mean field potential for protein folding with different interaction centers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 449-462.	1.2	3
49	Assessment of protein folding potentials with an evolutionary method. <i>Journal of Chemical Physics</i> , 2006, 125, 014904.	1.2	4
50	Evolutionary method for the assembly of rigid protein fragments. <i>Journal of Computational Chemistry</i> , 2005, 26, 131-141.	1.5	6
51	Thermodynamics of G $\alpha$ -type models for protein folding. <i>Journal of Chemical Physics</i> , 2005, 123, 154903.	1.2	35