Monica L FernÃ¡ndez-Quintero

List of Publications by Year
in descending order

36 papers	698 citations	567281 15 h-index	642732 23 g-index
41 all docs	41 docs citations	41 times ranked	481 citing authors

#	ARTICLE	IF	CITATIONS
1	Paratope states in solution improve structure prediction and docking. Structure, 2022, 30, 430-440.e3.	3.3	8
2	Explicit solvation thermodynamics in ionic solution: extending grid inhomogeneous solvation theory to solvation free energy of saltâ€"water mixtures. Journal of Computer-Aided Molecular Design, 2022, 36, 101-116.	2.9	8
3	CDR loop interactions can determine heavy and light chain pairing preferences in bispecific antibodies. MAbs, 2022, 14, 2024118.	5.2	4
4	Comparing Antibody Interfaces to Inform Rational Design of New Antibody Formats. Frontiers in Molecular Biosciences, 2022, 9, 812750.	3.5	4
5	Broadly neutralizing antibodies target a haemagglutinin anchor epitope. Nature, 2022, 602, 314-320.	27.8	78
6	Calcium current modulation by the $\hat{I}^3 1$ subunit depends on alternative splicing of CaV1.1. Journal of General Physiology, 2022, 154, .	1.9	4
7	Essential role of a conserved aspartate for the enzymatic activity of plasmanylethanolamine desaturase. Cellular and Molecular Life Sciences, 2022, 79, 214.	5.4	2
8	Grid inhomogeneous solvation theory for cross-solvation in rigid solvents. Journal of Chemical Physics, 2022, 156, .	3.0	3
9	Nanobody Paratope Ensembles in Solution Characterized by MD Simulations and NMR. International Journal of Molecular Sciences, 2022, 23, 5419.	4.1	6
10	Conformational Ensembles of Antibodies Determine Their Hydrophobicity. Biophysical Journal, 2021, 120, 143-157.	0.5	23
11	Ensembles in solution as a new paradigm for antibody structure prediction and design. MAbs, 2021, 13, 1923122.	5.2	19
12	Structural determinants of voltage-gating properties in calcium channels. ELife, 2021, 10, .	6.0	18
13	<i>CACNA1I</i> gain-of-function mutations differentially affect channel gating and cause neurodevelopmental disorders. Brain, 2021, 144, 2092-2106.	7.6	26
14	Conformational Shifts of Stacked Heteroaromatics: Vacuum vs. Water Studied by Machine Learning. Frontiers in Chemistry, 2021, 9, 641610.	3.6	1
15	Mutation of Framework Residue H71 Results in Different Antibody Paratope States in Solution. Frontiers in Immunology, 2021, 12, 630034.	4.8	17
16	Shark Antibody Variable Domains Rigidify Upon Affinity Maturationâ€"Understanding the Potential of Shark Immunoglobulins as Therapeutics. Frontiers in Molecular Biosciences, 2021, 8, 639166.	3.5	9
17	Implementation of the Freely Jointed Chain Model to Assess Kinetics and Thermodynamics of Thermosensitive Coilâ€"Globule Transition by Markov States. Journal of Physical Chemistry B, 2021, 125, 4898-4909.	2.6	4
18	Pore mutation N617D in the skeletal muscle DHPR blocks Ca2+ influx due to atypical high-affinity Ca2+ binding. ELife, 2021, 10, .	6.0	5

#	Article	IF	Citations
19	Cav1.4 dysfunction and congenital stationary night blindness type 2. Pflugers Archiv European Journal of Physiology, 2021, 473, 1437-1454.	2.8	13
20	Germline-Dependent Antibody Paratope States and Pairing Specific VH-VL Interface Dynamics. Frontiers in Immunology, 2021, 12, 675655.	4.8	11
21	Ion-pair interactions between voltage-sensing domain IV and pore domain I regulate CaV1.1 gating. Biophysical Journal, 2021, 120, 4429-4441.	0.5	3
22	V_H–V_L interdomain dynamics observed by computer simulations and NMR. Proteins: Structure, Function and Bioinformatics, 2020, 88, 830-839.	2.6	28
23	Local and Global Rigidification Upon Antibody Affinity Maturation. Frontiers in Molecular Biosciences, 2020, 7, 182.	3.5	29
24	T-Cell Receptor CDR3 Loop Conformations in Solution Shift the Relative $V\alpha$-$V\beta$ Domain Distributions. Frontiers in Immunology, 2020, 11, 1440.	4.8	17
25	Polyreactive Broadly Neutralizing B cells Are Selected to Provide Defense against Pandemic Threat Influenza Viruses. Immunity, 2020, 53, 1230-1244.e5.	14.3	61
26	Antibodies exhibit multiple paratope states influencing VH–VL domain orientations. Communications Biology, 2020, 3, 589.	4.4	38
27	Surprisingly Fast Interface and Elbow Angle Dynamics of Antigen-Binding Fragments. Frontiers in Molecular Biosciences, 2020, 7, 609088.	3.5	11
28	T-Cell Receptor Variable β Domains Rigidify During Affinity Maturation. Scientific Reports, 2020, 10, 4472.	3.3	20
29	STACKED – _S_olvation _T_heory of _A_romatic _C_omplexes as _K_ey for _E_stimating _D_rug Binding. Journal of Chemical Information and Modeling, 2020, 60, 2304-2313.	5.4	10
30	Antibody CDR loops as ensembles in solution vs. canonical clusters from X-ray structures. MAbs, 2020, 12, 1744328.	5.2	34
31	pH-Induced Local Unfolding of the Phl p 6 Pollen Allergen From cpH-MD. Frontiers in Molecular Biosciences, 2020, 7, 603644.	3.5	5
32	CDR-H3 loop ensemble in solution – conformational selection upon antibody binding. MAbs, 2019, 11, 1077-1088.	5.2	49
33	Conformational selection of allergen-antibody complexes—surface plasticity of paratopes and epitopes. Protein Engineering, Design and Selection, 2019, 32, 513-523.	2.1	17
34	Antibody humanization—the Influence of the antibody framework on the CDR-H3 loop ensemble in solution. Protein Engineering, Design and Selection, 2019, 32, 411-422.	2.1	17
35	Transitions of CDR-L3 Loop Canonical Cluster Conformations on the Micro-to-Millisecond Timescale. Frontiers in Immunology, 2019, 10, 2652.	4.8	18
36	Characterizing the Diversity of the CDR-H3 Loop Conformational Ensembles in Relationship to Antibody Binding Properties. Frontiers in Immunology, 2018, 9, 3065.	4.8	73