

# Giorgio Colombo

## List of Publications by Citations

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221  
papers

6,447  
citations

44  
h-index

68  
g-index

237  
ext. papers

7,273  
ext. citations

6  
avg, IF

5.93  
L-index

#	Paper	IF	Citations
221	Mechanism by which 2,2,2-trifluoroethanol/water mixtures stabilize secondary-structure formation in peptides: a molecular dynamics study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 12179-84	11.5	406
220	Rational design of shepherdin, a novel anticancer agent. <i>Cancer Cell</i> , <b>2005</b> , 7, 457-68	24.3	275
219	Combinatorial drug design targeting multiple cancer signaling networks controlled by mitochondrial Hsp90. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 454-64	15.9	168
218	Structure-activity relationships of linear and cyclic peptides containing the NGR tumor-homing motif. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 47891-7	5.4	144
217	Swe1Wee1-dependent tyrosine phosphorylation of Hsp90 regulates distinct facets of chaperone function. <i>Molecular Cell</i> , <b>2010</b> , 37, 333-43	17.6	143
216	Modeling signal propagation mechanisms and ligand-based conformational dynamics of the Hsp90 molecular chaperone full-length dimer. <i>PLoS Computational Biology</i> , <b>2009</b> , 5, e1000323	5	125
215	Peptide self-assembly at the nanoscale: a challenging target for computational and experimental biotechnology. <i>Trends in Biotechnology</i> , <b>2007</b> , 25, 211-8	15.1	117
214	Solvent Dynamics and Mechanism of Proton Transfer in Human Carbonic Anhydrase II. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 2290-2302	16.4	107
213	Sequence dependence of amyloid fibril formation: insights from molecular dynamics simulations. <i>Journal of Molecular Biology</i> , <b>2005</b> , 349, 583-96	6.5	83
212	Corresponding functional dynamics across the Hsp90 Chaperone family: insights from a multiscale analysis of MD simulations. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002433	5	82
211	Enantioselective mukaiyama-michael reactions of 2-carbomethoxy cyclopentenone catalyzed by chiral bis(Oxazoline)-Cu(II) complexes. <i>Tetrahedron Letters</i> , <b>1996</b> , 37, 8921-8924	2	81
210	Long-Pentraxin 3 Derivative as a Small-Molecule FGF Trap for Cancer Therapy. <i>Cancer Cell</i> , <b>2015</b> , 28, 225-233	24.3	80
209	Antileukemic activity of shepherdin and molecular diversity of hsp90 inhibitors. <i>Journal of the National Cancer Institute</i> , <b>2006</b> , 98, 1068-77	9.7	80
208	Small-molecule targeting of heat shock protein 90 chaperone function: rational identification of a new anticancer lead. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 7721-30	8.3	79
207	Human and chicken antibodies to CCR5-ECL1 block mucosal and systemic HIV infection. <i>Retrovirology</i> , <b>2006</b> , 3, 1	3.6	78
206	Beta-hairpin conformation of fibrillogenic peptides: structure and alpha-beta transition mechanism revealed by molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 57, 198-204	4.2	78
205	The Chaperone TRAP1 As a Modulator of the Mitochondrial Adaptations in Cancer Cells. <i>Frontiers in Oncology</i> , <b>2017</b> , 7, 58	5.3	77

204	Pharmacological enhancement of $\alpha$ -glucosidase by the allosteric chaperone N-acetylcysteine. <i>Molecular Therapy</i> , <b>2012</b> , 20, 2201-11	11.7	72
203	Dynamics-Based Discovery of Allosteric Inhibitors: Selection of New Ligands for the C-terminal Domain of Hsp90. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 2978-89	6.4	70
202	Understanding the determinants of stability and folding of small globular proteins from their energetics. <i>Protein Science</i> , <b>2004</b> , 13, 113-24	6.3	70
201	Synthesis, structure and conformation of partially-modified retro- and retro-inverso psi[NHCH(CF <sub>3</sub> )]Gly peptides. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 4510-22	4.8	70
200	A multiscale approach to characterize the early aggregation steps of the amyloid-forming peptide GNNQQNY from the yeast prion sup-35. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002051	5	68
199	Simulation of MscL gating in a bilayer under stress. <i>Biophysical Journal</i> , <b>2003</b> , 84, 2331-7	2.9	67
198	Effect of hexafluoroisopropanol alcohol on the structure of melittin: a molecular dynamics simulation study. <i>Protein Science</i> , <b>2005</b> , 14, 2582-9	6.3	65
197	Stability and Activity of Mesophilic Subtilisin E and Its Thermophilic Homolog: Insights from Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 6895-6903	16.4	63
196	Predicting interaction sites from the energetics of isolated proteins: a new approach to epitope mapping. <i>Biophysical Journal</i> , <b>2010</b> , 98, 1966-75	2.9	62
195	Non-peptidic thrombospondin-1 mimics as fibroblast growth factor-2 inhibitors: an integrated strategy for the development of new antiangiogenic compounds. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 8733-42	5.4	61
194	Molecular Dynamics Simulations Reveal the Mechanisms of Allosteric Activation of Hsp90 by Designed Ligands. <i>Scientific Reports</i> , <b>2016</b> , 6, 23830	4.9	60
193	Understanding ligand-based modulation of the Hsp90 molecular chaperone dynamics at atomic resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 7976-81	11.5	60
192	Allosteric Modulators of HSP90 and HSP70: Dynamics Meets Function through Structure-Based Drug Design. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 60-87	8.3	59
191	Activation of Hsp90 Enzymatic Activity and Conformational Dynamics through Rationally Designed Allosteric Ligands. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 13598-608	4.8	54
190	Targeting tumor angiogenesis with TSP-1-based compounds: rational design of antiangiogenic mimetics of endogenous inhibitors. <i>Oncotarget</i> , <b>2010</b> , 1, 662-673	3.3	53
189	Study of the Villin headpiece folding dynamics by combining coarse-grained Monte Carlo evolution and all-atom molecular dynamics. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 58, 459-71	4.2	52
188	Dynamic diagnosis of familial prion diseases supports the $\beta$ - $\beta$ loop as a universal interference target. <i>PLoS ONE</i> , <b>2011</b> , 6, e19093	3.7	51
187	Fast three dimensional pharmacophore virtual screening of new potent non-steroid aromatase inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2009</b> , 52, 143-50	8.3	49

186	Methionine sulfoxides on prion protein Helix-3 switch on the alpha-fold destabilization required for conversion. <i>PLoS ONE</i> , <b>2009</b> , 4, e4296	3.7	49
185	Molecular simulation of multistate peptide dynamics: a comparison between microsecond timescale sampling and multiple shorter trajectories. <i>Journal of Computational Chemistry</i> , <b>2008</b> , 29, 1740-1752	3.5	47
184	Exploiting conformational dynamics in drug discovery: design of C-terminal inhibitors of Hsp90 with improved activities. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 195-208	6.1	46
183	Immunogenic and structural properties of the Asn-Gly-Arg (NGR) tumor neovasculature-homing motif. <i>Molecular Immunology</i> , <b>2006</b> , 43, 1509-18	4.3	46
182	Allosteric Regulation Points Control the Conformational Dynamics of the Molecular Chaperone Hsp90. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 4559-4571	6.5	45
181	Relationship between energy distribution and fold stability: Insights from molecular dynamics simulations of native and mutant proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 72, 660-72	4.2	45
180	Folding and stability of the three-stranded beta-sheet peptide Betanova: insights from molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2002</b> , 46, 380-92	4.2	45
179	Misfolding of the amyloid beta-protein: a molecular dynamics study. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 62, 183-92	4.2	45
178	A Computational Assay of Estrogen Receptor Antagonists Reveals the Key Common Structural Traits of Drugs Effectively Fighting Refractory Breast Cancers. <i>Scientific Reports</i> , <b>2018</b> , 8, 649	4.9	44
177	Investigating the mechanism of peptide aggregation: insights from mixed monte carlo-molecular dynamics simulations. <i>Biophysical Journal</i> , <b>2008</b> , 94, 4414-26	2.9	44
176	Molecular mechanism of allosteric communication in Hsp70 revealed by molecular dynamics simulations. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002844	5	43
175	Anharmonicity and self-similarity of the free energy landscape of protein G. <i>Physical Review Letters</i> , <b>2007</b> , 98, 048102	7.4	43
174	Molecular dynamics simulation of the aggregation of the core-recognition motif of the islet amyloid polypeptide in explicit water. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 59, 519-27	4.2	43
173	Chaperones rescue the energetic landscape of mutant CFTR at single molecule and in cell. <i>Nature Communications</i> , <b>2017</b> , 8, 398	17.4	42
172	Rationalization of the Enantioselectivity of Subtilisin in DMF. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 3486-3493	16.4	42
171	Exploiting the Burkholderia pseudomallei acute phase antigen BPSL2765 for structure-based epitope discovery/design in structural vaccinology. <i>Chemistry and Biology</i> , <b>2013</b> , 20, 1147-56		41
170	Peptides for immunological purposes: design, strategies and applications. <i>Amino Acids</i> , <b>2013</b> , 45, 257-68	3.5	41
169	Exploiting antigenic diversity for vaccine design: the chlamydia ArtJ paradigm. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 30126-38	5.4	39

168	Design, synthesis and biological evaluation of biphenylamide derivatives as Hsp90 C-terminal inhibitors. <i>European Journal of Medicinal Chemistry</i> , <b>2015</b> , 89, 442-66	6.8	37
167	A structure-based strategy for epitope discovery in Burkholderia pseudomallei OppA antigen. <i>Structure</i> , <b>2013</b> , 21, 167-175	5.2	37
166	An efficient steroid pharmacophore-based strategy to identify new aromatase inhibitors. <i>European Journal of Medicinal Chemistry</i> , <b>2009</b> , 44, 4121-7	6.8	36
165	All-Atom Folding Simulations of the Villin Headpiece from Stochastically Selected Coarse-Grained Structures. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12267-12270	3.4	36
164	Identification of domains in protein structures from the analysis of intramolecular interactions. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 3331-43	3.4	34
163	Structural determinants of the unusual helix stability of a de novo engineered vascular endothelial growth factor (VEGF) mimicking peptide. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 4164-6	4.8	34
162	Computational approaches elucidate the allosteric mechanism of human aromatase inhibition: a novel possible route to Small-molecule regulation of CYP450s activities?. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 2856-68	6.1	33
161	Mechanism of helix nucleation and propagation: microscopic view from microsecond time scale MD simulations. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20064-7	3.4	33
160	Direct and allosteric inhibition of the FGF2/HSPGs/FGFR1 ternary complex formation by an antiangiogenic, thrombospondin-1-mimic small molecule. <i>PLoS ONE</i> , <b>2012</b> , 7, e36990	3.7	33
159	Targeting tumor angiogenesis with TSP-1-based compounds: rational design of antiangiogenic mimetics of endogenous inhibitors. <i>Oncotarget</i> , <b>2010</b> , 1, 662-73	3.3	33
158	Rational Design of Allosteric and Selective Inhibitors of the Molecular Chaperone TRAP1. <i>Cell Reports</i> , <b>2020</b> , 31, 107531	10.6	32
157	The Structural Asymmetry of Mitochondrial Hsp90 (Trap1) Determines Fine Tuning of Functional Dynamics. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 1033-1044	6.4	31
156	Mechanisms of Differential Allosteric Modulation in Homologous Proteins: Insights from the Analysis of Internal Dynamics and Energetics of PDZ Domains. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 5677-89	6.4	31
155	Molecular recognition and drug-lead identification: what can molecular simulations tell us?. <i>Current Medicinal Chemistry</i> , <b>2010</b> , 17, 25-41	4.3	31
154	Interplay between hydrophobic cluster and loop propensity in beta-hairpin formation: a mechanistic study. <i>Protein Science</i> , <b>2003</b> , 12, 538-50	6.3	31
153	The determinants of stability in the human prion protein: insights into folding and misfolding from the analysis of the change in the stabilization energy distribution in different conditions. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 62, 698-707	4.2	31
152	Screening Complex Biological Samples with Peptide Microarrays: The Favorable Impact of Probe Orientation via Chemoselective Immobilization Strategies on Clickable Polymeric Coatings. <i>Bioconjugate Chemistry</i> , <b>2016</b> , 27, 2669-2677	6.3	31
151	From crystal structure to in silico epitope discovery in the Burkholderia pseudomallei flagellar hook-associated protein FlgK. <i>FEBS Journal</i> , <b>2015</b> , 282, 1319-33	5.7	30

150	Rational epitope design for protein targeting. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 397-404	4.9	30
149	Chemical Perturbation of Oncogenic Protein Folding: from the Prediction of Locally Unstable Structures to the Design of Disruptors of Hsp90-Client Interactions. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 9459-9465	4.8	28
148	ADAMDEC1 Maintains a Growth Factor Signaling Loop in Cancer Stem Cells. <i>Cancer Discovery</i> , <b>2019</b> , 9, 1574-1589	24.4	28
147	Identification of a new scaffold for hsp90 C-terminal inhibition. <i>ACS Medicinal Chemistry Letters</i> , <b>2014</b> , 5, 84-8	4.3	28
146	Combining computational and biochemical studies for a rationale on the anti-aromatase activity of natural polyphenols. <i>ChemMedChem</i> , <b>2007</b> , 2, 1750-62	3.7	28
145	Design of Allosteric Stimulators of the Hsp90 ATPase as New Anticancer Leads. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5188-5192	4.8	27
144	Sequence- and Structure-Based Immunoreactive Epitope Discovery for <i>Burkholderia pseudomallei</i> Flagellin. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0003917	4.8	27
143	Ligand Binding, Unbinding, and Allosteric Effects: Deciphering Small-Molecule Modulation of HSP90. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 6368-6381	6.4	26
142	Inactivation of TEM-1 by avibactam (NXL-104): insights from quantum mechanics/molecular mechanics metadynamics simulations. <i>Biochemistry</i> , <b>2014</b> , 53, 5174-85	3.2	26
141	Thermodynamics of beta-amyloid fibril formation. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 8307-17	3.9	26
140	Application of structure-based thermodynamic calculations to the rationalization of the enantioselectivity of subtilisin in organic solvents. <i>Tetrahedron: Asymmetry</i> , <b>1998</b> , 9, 1205-1214		25
139	Modeling the alpha-helix to beta-hairpin transition mechanism and the formation of oligomeric aggregates of the fibrillogenic peptide Aβ(12-28): insights from all-atom molecular dynamics simulations. <i>Journal of Molecular Graphics and Modelling</i> , <b>2004</b> , 23, 263-73	2.8	25
138	Rational design of allosteric modulators of the aromatase enzyme: An unprecedented therapeutic strategy to fight breast cancer. <i>European Journal of Medicinal Chemistry</i> , <b>2019</b> , 168, 253-262	6.8	24
137	An atomistic view of Hsp70 allosteric crosstalk: from the nucleotide to the substrate binding domain and back. <i>Scientific Reports</i> , <b>2016</b> , 6, 23474	4.9	24
136	The five-to-six-coordination transition of ferric human serum heme-albumin is allosterically-modulated by ibuprofen and warfarin: a combined XAS and MD study. <i>PLoS ONE</i> , <b>2014</b> , 9, e104231	3.7	24
135	Molecular dynamics simulations of proteins and peptides: from folding to drug design. <i>Current Protein and Peptide Science</i> , <b>2008</b> , 9, 181-96	2.8	24
134	The Answer Lies in the Energy: How Simple Atomistic Molecular Dynamics Simulations May Hold the Key to Epitope Prediction on the Fully Glycosylated SARS-CoV-2 Spike Protein. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8084-8093	6.4	24
133	The calcium-binding type III repeats domain of thrombospondin-2 binds to fibroblast growth factor 2 (FGF2). <i>Angiogenesis</i> , <b>2019</b> , 22, 133-144	10.6	24

132	Structural analysis of a helical peptide unfolding pathway. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 5400-8	4.8	23
131	Toward the understanding of the structure and dynamics of protein-carbohydrate interactions: molecular dynamics studies of the complexes between hevein and oligosaccharidic ligands. <i>Carbohydrate Research</i> , <b>2004</b> , 339, 985-94	2.9	23
130	Probing the hirudin-thrombin interaction by incorporation of noncoded amino acids and molecular dynamics simulation. <i>Biochemistry</i> , <b>2002</b> , 41, 13556-69	3.2	23
129	Impact of Mutations on NPAC Structural Dynamics: Mechanistic Insights from MD Simulations. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 3927-3937	6.1	22
128	A protease-resistant Escherichia coli asparaginase with outstanding stability and enhanced anti-leukaemic activity in vitro. <i>Scientific Reports</i> , <b>2017</b> , 7, 14479	4.9	22
127	Crystal Structure of the DFNKF Segment of Human Calcitonin Unveils Aromatic Interactions between Phenylalanines. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 2051-2058	4.8	22
126	Structural and computational biology of the molecular chaperone Hsp90: from understanding molecular mechanisms to computer-based inhibitor design. <i>Current Topics in Medicinal Chemistry</i> , <b>2009</b> , 9, 1369-85	3	22
125	Designing Molecular Spanners to Throw in the Protein Networks. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 4656-4670	4.8	22
124	Computational Analysis of Dengue Virus Envelope Protein (E) Reveals an Epitope with Flavivirus Immunodiagnostic Potential in Peptide Microarrays. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	21
123	3D-QSAR Assisted Design, Synthesis and Evaluation of Novobiocin Analogues. <i>ACS Medicinal Chemistry Letters</i> , <b>2012</b> , 4, 57-62	4.3	21
122	Modeling enzyme reactivity in organic solvents and water through computer simulations. <i>Journal of Biotechnology</i> , <b>2002</b> , 96, 23-33	3.7	21
121	Structural Stability and Flexibility Direct the Selection of Activating Mutations in Epidermal Growth Factor Receptor Kinase. <i>Journal of Chemical Information and Modeling</i> , <b>2015</b> , 55, 1377-87	6.1	20
120	Enhancing Antibody Serodiagnosis Using a Controlled Peptide Coimmobilization Strategy. <i>ACS Infectious Diseases</i> , <b>2018</b> , 4, 998-1006	5.5	20
119	Determinants of protein stability and folding: comparative analysis of beta-lactoglobulins and liver basic fatty acid binding protein. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 61, 366-76	4.2	20
118	The Dynamics of Drug Discovery. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 2043-2055	3	20
117	Evolving serodiagnostics by rationally designed peptide arrays: the Burkholderia paradigm in Cystic Fibrosis. <i>Scientific Reports</i> , <b>2016</b> , 6, 32873	4.9	19
116	Flexible vs Rigid Epitope Conformations for Diagnostic- and Vaccine-Oriented Applications: Novel Insights from the Burkholderia pseudomallei BPSL2765 Pal3 Epitope. <i>ACS Infectious Diseases</i> , <b>2016</b> , 2, 221-30	5.5	19
115	Two amino acid substitutions within the first external loop of CCR5 induce human immunodeficiency virus-blocking antibodies in mice and chickens. <i>Journal of Virology</i> , <b>2008</b> , 82, 4125-34	6.6	19

114	Structure elucidation and 3D solution conformation of the antibiotic enduracidin determined by NMR spectroscopy and molecular dynamics. <i>Magnetic Resonance in Chemistry</i> , <b>2005</b> , 43, 603-10	2.1	19
113	Integrating computational and chemical biology tools in the discovery of antiangiogenic small molecule ligands of FGF2 derived from endogenous inhibitors. <i>Scientific Reports</i> , <b>2016</b> , 6, 23432	4.9	18
112	Covalent docking of selected boron-based serine beta-lactamase inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , <b>2015</b> , 29, 441-50	4.2	18
111	Computational study of the resistance shown by the subtype B/HIV-1 protease to currently known inhibitors. <i>Biochemistry</i> , <b>2010</b> , 49, 4283-95	3.2	18
110	Computational studies of the structure, dynamics and native content of amyloid-like fibrils of ribonuclease A. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 70, 863-72	4.2	18
109	Assessing the influence of electrostatic schemes on molecular dynamics simulations of secondary structure forming peptides. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, S329-S345	1.8	18
108	The influence of simulation conditions in molecular dynamics investigations of model $\beta$ -sheet peptides. <i>Theoretical Chemistry Accounts</i> , <b>2004</b> , 112, 145	1.9	18
107	Modelling of Enzyme Properties in Organic Solvents. <i>Monatshefte für Chemie</i> , <b>2000</b> , 131, 527-547	1.4	18
106	Energetic and dynamic aspects of the affinity maturation process: characterizing improved variants from the bevacizumab antibody with molecular simulations. <i>Journal of Chemical Information and Modeling</i> , <b>2013</b> , 53, 2937-50	6.1	17
105	A Hamiltonian replica exchange molecular dynamics (MD) method for the study of folding, based on the analysis of the stabilization determinants of proteins. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 12157-69	6.3	17
104	Similar folds with different stabilization mechanisms: the cases of Prion and Doppel proteins. <i>BMC Structural Biology</i> , <b>2006</b> , 6, 17	2.7	17
103	Understanding Complex Mechanisms of Enzyme Reactivity: The Case of Limonene-1,2-Epoxyde Hydrolases. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5698-5707	13.1	17
102	The Subtle Trade-Off between Evolutionary and Energetic Constraints in Protein-Protein Interactions. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1489-1497	6.4	16
101	Protein Folding Simulations: Combining Coarse-grained Models and All-atom Molecular Dynamics. <i>Theoretical Chemistry Accounts</i> , <b>2006</b> , 116, 75-86	1.9	16
100	Enzymatic and Inhibition Mechanism of Human Aromatase (CYP19A1) Enzyme. A Computational Perspective from QM/MM and Classical Molecular Dynamics Simulations. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2016</b> , 16, 1112-24	3.2	16
99	Protein design: from computer models to artificial intelligence. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2017</b> , 7, e1318	7.9	15
98	Investigating allostery in molecular recognition: insights from a computational study of multiple antibody-antigen complexes. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 535-52	3.4	15
97	Synthesis of Functionalized 2-(4-Hydroxyphenyl)-3-methylbenzofuran Allosteric Modulators of Hsp90 Activity. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 3349-3364	3.2	15



96	Structure and Computation in Immunoreagent Design: From Diagnostics to Vaccines. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 1208-1220	15.1	14
95	The structural intolerance of the PrP alpha-fold for polar substitution of the helix-3 methionines. <i>Cellular and Molecular Life Sciences</i> , <b>2010</b> , 67, 2825-38	10.3	14
94	Selecting sequences that fold into a defined 3D structure: A new approach for protein design based on molecular dynamics and energetics. <i>Biophysical Chemistry</i> , <b>2010</b> , 146, 76-84	3.5	14
93	A molecular dynamics study of the interaction of D-peptide amyloid inhibitors with their target sequence reveals a potential inhibitory pharmacophore conformation. <i>Journal of Molecular Biology</i> , <b>2008</b> , 383, 266-80	6.5	14
92	A decoy set for the thermostable subdomain from chicken villin headpiece, comparison of different free energy estimators. <i>BMC Bioinformatics</i> , <b>2005</b> , 6, 301	3.6	14
91	Machine Learning of Allosteric Effects: The Analysis of Ligand-Induced Dynamics to Predict Functional Effects in TRAP1. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 101-114	3.4	14
90	Machine Learning Prediction of Allosteric Drug Activity from Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3724-3732	6.4	14
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