

# Alexandre Bonvin

## List of Publications by Citations

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277  
papers

18,903  
citations

65  
h-index

130  
g-index

328  
ext. papers

22,480  
ext. citations

6.8  
avg, IF

6.99  
L-index

#	Paper	IF	Citations
277	HADDOCK: a protein-protein docking approach based on biochemical or biophysical information. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1731-7	16.4	2126
276	The HADDOCK2.2 Web Server: User-Friendly Integrative Modeling of Biomolecular Complexes. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 720-725	6.5	1155
275	The HADDOCK web server for data-driven biomolecular docking. <i>Nature Protocols</i> , <b>2010</b> , 5, 883-97	18.8	936
274	Refinement of protein structures in explicit solvent. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2003</b> , 50, 496-506	4.2	521
273	HADDOCK versus HADDOCK: new features and performance of HADDOCK2.0 on the CAPRI targets. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 69, 726-33	4.2	462
272	Structure and flexibility adaptation in nonspecific and specific protein-DNA complexes. <i>Science</i> , <b>2004</b> , 305, 386-9	33.3	454
271	The nisin-lipid II complex reveals a pyrophosphate cage that provides a blueprint for novel antibiotics. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 963-7	17.6	438
270	Plectasin, a fungal defensin, targets the bacterial cell wall precursor Lipid II. <i>Science</i> , <b>2010</b> , 328, 1168-72	33.3	400
269	Structural basis for signal-sequence recognition by the translocase motor SecA as determined by NMR. <i>Cell</i> , <b>2007</b> , 131, 756-69	56.2	337
268	Sequence co-evolution gives 3D contacts and structures of protein complexes. <i>ELife</i> , <b>2014</b> , 3,	8.9	324
267	The alpha-to-beta conformational transition of Alzheimer's Abeta-(1-42) peptide in aqueous media is reversible: a step by step conformational analysis suggests the location of beta conformation seeding. <i>ChemBioChem</i> , <b>2006</b> , 7, 257-67	3.8	314
266	RECOORD: a recalculated coordinate database of 500+ proteins from the PDB using restraints from the BioMagResBank. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 59, 662-72	4.2	285
265	PRODIGY: a web server for predicting the binding affinity of protein-protein complexes. <i>Bioinformatics</i> , <b>2016</b> , 32, 3676-3678	7.2	272
264	3D-DART: a DNA structure modelling server. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, W235-9	20.1	262
263	On the binding affinity of macromolecular interactions: daring to ask why proteins interact. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20120835	4.1	251
262	Flexible protein-protein docking. <i>Current Opinion in Structural Biology</i> , <b>2006</b> , 16, 194-200	8.1	242
261	Updates to the Integrated Protein-Protein Interaction Benchmarks: Docking Benchmark Version 5 and Affinity Benchmark Version 2. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 3031-41	6.5	208

260	Are scoring functions in protein-protein docking ready to predict interactomes? Clues from a novel binding affinity benchmark. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 2216-25	5.6	196
259	A structure-based benchmark for protein-protein binding affinity. <i>Protein Science</i> , <b>2011</b> , 20, 482-91	6.3	194
258	Contacts-based prediction of binding affinity in protein-protein complexes. <i>ELife</i> , <b>2015</b> , 4, e07454	8.9	190
257	CPORT: a consensus interface predictor and its performance in prediction-driven docking with HADDOCK. <i>PLoS ONE</i> , <b>2011</b> , 6, e17695	3.7	188
256	Short-chain fatty acids stimulate angiotensin-like 4 synthesis in human colon adenocarcinoma cells by activating peroxisome proliferator-activated receptor $\alpha$ . <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 1303-16	4.8	156
255	Information-driven protein-DNA docking using HADDOCK: it is a matter of flexibility. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 3317-25	20.1	148
254	WeNMR: Structural Biology on the Grid. <i>Journal of Grid Computing</i> , <b>2012</b> , 10, 743-767	4.2	142
253	A unified conformational selection and induced fit approach to protein-peptide docking. <i>PLoS ONE</i> , <b>2013</b> , 8, e58769	3.7	132
252	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. <i>Structure</i> , <b>2015</b> , 23, 1156-67	5.2	131
251	Assessment of contact predictions in CASP12: Co-evolution and deep learning coming of age. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2018</b> , 86 Suppl 1, 51-66	4.2	126
250	Solvated docking: introducing water into the modelling of biomolecular complexes. <i>Bioinformatics</i> , <b>2006</b> , 22, 2340-7	7.2	123
249	Conformational variability of solution nuclear magnetic resonance structures. <i>Journal of Molecular Biology</i> , <b>1995</b> , 250, 80-93	6.5	117
248	WHISCY: what information does surface conservation yield? Application to data-driven docking. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 63, 479-89	4.2	115
247	Community-wide assessment of protein-interface modeling suggests improvements to design methodology. <i>Journal of Molecular Biology</i> , <b>2011</b> , 414, 289-302	6.5	114
246	Data-driven docking for the study of biomolecular complexes. <i>FEBS Journal</i> , <b>2005</b> , 272, 293-312	5.7	112
245	Prediction of homoprotein and heteroprotein complexes by protein docking and template-based modeling: A CASP-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84 Suppl 1, 323-48	4.2	111
244	A comprehensive framework of E2-RING E3 interactions of the human ubiquitin-proteasome system. <i>Molecular Systems Biology</i> , <b>2009</b> , 5, 295	12.2	108
243	NMR study of mersacidin and lipid II interaction in dodecylphosphocholine micelles. Conformational changes are a key to antimicrobial activity. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 13110-7	5.4	105

242	Antimicrobial and efflux pump inhibitory activity of caffeoylquinic acids from <i>Artemisia absinthium</i> against gram-positive pathogenic bacteria. <i>PLoS ONE</i> , <b>2011</b> , 6, e18127	3.7	104
241	Probing a cell-embedded megadalton protein complex by DNP-supported solid-state NMR. <i>Nature Methods</i> , <b>2015</b> , 12, 649-52	21.6	103
240	Structural model of the Ubch5B/CNOT4 complex revealed by combining NMR, mutagenesis, and docking approaches. <i>Structure</i> , <b>2004</b> , 12, 633-44	5.2	103
239	Plasticity in protein-DNA recognition: lac repressor interacts with its natural operator O1 through alternative conformations of its DNA-binding domain. <i>EMBO Journal</i> , <b>2002</b> , 21, 2866-76	13	103
238	Dynamic binding mode of a Synaptotagmin-1-SNARE complex in solution. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 555-64	17.6	99
237	The solution structure of the AppA BLUF domain: insight into the mechanism of light-induced signaling. <i>ChemBioChem</i> , <b>2006</b> , 7, 187-93	3.8	99
236	NMR analysis of protein interactions. <i>Current Opinion in Chemical Biology</i> , <b>2005</b> , 9, 501-8	9.7	99
235	Building macromolecular assemblies by information-driven docking: introducing the HADDOCK multibody docking server. <i>Molecular and Cellular Proteomics</i> , <b>2010</b> , 9, 1784-94	7.6	98
234	Computational prediction of protein interfaces: A review of data driven methods. <i>FEBS Letters</i> , <b>2015</b> , 589, 3516-26	3.8	96
233	How proteins get in touch: interface prediction in the study of biomolecular complexes. <i>Current Protein and Peptide Science</i> , <b>2008</b> , 9, 394-406	2.8	94
232	Hydramacin-1, structure and antibacterial activity of a protein from the basal metazoan Hydra. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 1896-905	5.4	90
231	Hydration dynamics of the collagen triple helix by NMR. <i>Journal of Molecular Biology</i> , <b>2000</b> , 300, 1041-9	6.5	86
230	DRESS: a database of Refined solution NMR structures. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 55, 483-6	4.2	83
229	beta-hairpin stability and folding: molecular dynamics studies of the first beta-hairpin of tendamistat. <i>Journal of Molecular Biology</i> , <b>2000</b> , 296, 255-68	6.5	82
228	Sequence-specific High Mobility Group Box Factors Recognize 1012-Base Pair Minor Groove Motifs. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 27266-27273	5.4	81
227	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , <b>2016</b> , 7, 10882	17.4	78
226	Community-wide evaluation of methods for predicting the effect of mutations on protein-protein interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 1980-7	4.2	78
225	Integrative computational modeling of protein interactions. <i>FEBS Journal</i> , <b>2014</b> , 281, 1988-2003	5.7	77

224	Water molecules in DNA recognition II: a molecular dynamics view of the structure and hydration of the trp operator. <i>Journal of Molecular Biology</i> , <b>1998</b> , 282, 859-73	6.5	75
223	Various strategies of using residual dipolar couplings in NMR-driven protein docking: application to Lys48-linked di-ubiquitin and validation against <sup>15</sup> N-relaxation data. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 60, 367-81	4.2	72
222	The solution structure of Lac repressor headpiece 62 complexed to a symmetrical lac operator. <i>Structure</i> , <b>1999</b> , 7, 1483-92	5.2	72
221	Data-driven docking: HADDOCK® adventures in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2005</b> , 60, 232-8	4.2	70
220	Proteins feel more than they see: fine-tuning of binding affinity by properties of the non-interacting surface. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 2632-52	6.5	69
219	Clustering biomolecular complexes by residue contacts similarity. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2012</b> , 80, 1810-7	4.2	69
218	The vancomycin-nisin(1-12) hybrid restores activity against vancomycin resistant Enterococci. <i>Biochemistry</i> , <b>2008</b> , 47, 12661-3	3.2	69
217	"Ensemble" iterative relaxation matrix approach: a new NMR refinement protocol applied to the solution structure of crambin. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1993</b> , 15, 385-400	4.2	68
216	Mass spec studio for integrative structural biology. <i>Structure</i> , <b>2014</b> , 22, 1538-48	5.2	66
215	Human galectin-3 (Mac-2 antigen): defining molecular switches of affinity to natural glycoproteins, structural and dynamic aspects of glycan binding by flexible ligand docking and putative regulatory sequences in the proximal promoter region. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2011</b> , 1810, 150-61	4	66
214	The precision of NMR structure ensembles revisited. <i>Journal of Biomolecular NMR</i> , <b>2003</b> , 25, 225-34	3	66
213	Computational approaches to therapeutic antibody design: established methods and emerging trends. <i>Briefings in Bioinformatics</i> , <b>2020</b> , 21, 1549-1567	13.4	66
212	Structural determinants of specific lipid binding to potassium channels. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3983-8	16.4	65
211	Do NOE distances contain enough information to assess the relative populations of multi-conformer structures?. <i>Journal of Biomolecular NMR</i> , <b>1996</b> , 7, 72-6	3	65
210	Blind testing of routine, fully automated determination of protein structures from NMR data. <i>Structure</i> , <b>2012</b> , 20, 227-36	5.2	64
209	Detailed mechanistic insights into HIV-1 sensitivity to three generations of fusion inhibitors. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 26941-50	5.4	64
208	Nuclear magnetic resonance solution structure of the Arc repressor using relaxation matrix calculations. <i>Journal of Molecular Biology</i> , <b>1994</b> , 236, 328-41	6.5	64
207	Crystal structure and catalytic mechanism of the LPS 3-O-deacylase PagL from <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 7071-6	11.5	63

206	Mapping the targeted membrane pore formation mechanism by solution NMR: the nisin Z and lipid II interaction in SDS micelles. <i>Biochemistry</i> , <b>2002</b> , 41, 7670-6	3.2	62
205	Extended O-GlcNAc on HLA Class-I-Bound Peptides. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10922-10925	16.4	60
204	Performance of HADDOCK and a simple contact-based protein-ligand binding affinity predictor in the D3R Grand Challenge 2. <i>Journal of Computer-Aided Molecular Design</i> , <b>2018</b> , 32, 175-185	4.2	58
203	Blind prediction of homo- and hetero-protein complexes: The CASP13-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1200-1221	4.2	58
202	Activity-structure correlations in divergent lectin evolution: fine specificity of chicken galectin CG-14 and computational analysis of flexible ligand docking for CG-14 and the closely related CG-16. <i>Glycobiology</i> , <b>2007</b> , 17, 165-84	5.8	58
201	Advances in integrative modeling of biomolecular complexes. <i>Methods</i> , <b>2013</b> , 59, 372-81	4.6	57
200	A protein-DNA docking benchmark. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, e88	20.1	57
199	Membrane proteins structures: A review on computational modeling tools. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2017</b> , 1859, 2021-2039	3.8	56
198	Entropy calculation of HIV-1 Env gp120, its receptor CD4, and their complex: an analysis of configurational entropy changes upon complexation. <i>Biophysical Journal</i> , <b>2005</b> , 88, 15-24	2.9	55
197	Refined structure of lac repressor headpiece (1-56) determined by relaxation matrix calculations from 2D and 3D NOE data: change of tertiary structure upon binding to the lac operator. <i>Journal of Molecular Biology</i> , <b>1996</b> , 259, 761-73	6.5	54
196	Binding site structure of one LRP-RAP complex: implications for a common ligand-receptor binding motif. <i>Journal of Molecular Biology</i> , <b>2006</b> , 362, 700-16	6.5	53
195	Time- and ensemble-averaged direct NOE restraints. <i>Journal of Biomolecular NMR</i> , <b>1994</b> , 4, 143-9	3	53
194	A gp41 MPER-specific llama VHH requires a hydrophobic CDR3 for neutralization but not for antigen recognition. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003202	7.6	52
193	A multidomain flexible docking approach to deal with large conformational changes in the modeling of biomolecular complexes. <i>Structure</i> , <b>2011</b> , 19, 555-65	5.2	52
192	SpotOn: High Accuracy Identification of Protein-Protein Interface Hot-Spots. <i>Scientific Reports</i> , <b>2017</b> , 7, 8007	4.9	51
191	CASD-NMR: critical assessment of automated structure determination by NMR. <i>Nature Methods</i> , <b>2009</b> , 6, 625-6	21.6	51
190	Two-rung model of a left-handed beta-helix for prions explains species barrier and strain variation in transmissible spongiform encephalopathies. <i>Journal of Molecular Biology</i> , <b>2006</b> , 360, 907-20	6.5	51
189	On the usefulness of ion-mobility mass spectrometry and SAXS data in scoring docking decoys. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2013</b> , 69, 683-94		50

188	Characterization and structural analyses of nonspecific lipid transfer protein 1 from mung bean. <i>Biochemistry</i> , <b>2005</b> , 44, 5703-12	3.2	50
187	The orientations of cytochrome c in the highly dynamic complex with cytochrome b5 visualized by NMR and docking using HADDOCK. <i>Protein Science</i> , <b>2005</b> , 14, 799-811	6.3	50
186	NMR Relaxation and Internal Dynamics of Ubiquitin from a 0.2 $\mu$ s MD Simulation. <i>Journal of Chemical Theory and Computation</i> , <b>2005</b> , 1, 363-74	6.4	50
185	Sequence-specific high mobility group box factors recognize 10-12-base pair minor groove motifs. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 27266-73	5.4	50
184	Integrative Modeling of Biomolecular Complexes: HADDOCKing with Cryo-Electron Microscopy Data. <i>Structure</i> , <b>2015</b> , 23, 949-960	5.2	49
183	Insight into cyanobacterial circadian timing from structural details of the KaiB-KaiC interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1379-84	11.5	49
182	A docking approach to the study of copper trafficking proteins; interaction between metallochaperones and soluble domains of copper ATPases. <i>Structure</i> , <b>2004</b> , 12, 669-76	5.2	49
181	The solution structure of the human retinoic acid receptor-beta DNA-binding domain. <i>Journal of Biomolecular NMR</i> , <b>1993</b> , 3, 1-17	3	49
180	Understanding the role of the Josephin domain in the PolyUb binding and cleavage properties of ataxin-3. <i>PLoS ONE</i> , <b>2010</b> , 5, e12430	3.7	49
179	Large-scale prediction of binding affinity in protein-small ligand complexes: the PRODIGY-LIG web server. <i>Bioinformatics</i> , <b>2019</b> , 35, 1585-1587	7.2	48
178	Defining the limits of homology modeling in information-driven protein docking. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 2119-28	4.2	47
177	Model for RNA binding and the catalytic site of the RNase Kid of the bacterial parD toxin-antitoxin system. <i>Journal of Molecular Biology</i> , <b>2006</b> , 357, 115-26	6.5	47
176	Water molecules in DNA recognition I: hydration lifetimes of trp operator DNA in solution measured by NMR spectroscopy. <i>Journal of Molecular Biology</i> , <b>1998</b> , 282, 847-58	6.5	46
175	INDIGO-DataCloud: a Platform to Facilitate Seamless Access to E-Infrastructures. <i>Journal of Grid Computing</i> , <b>2018</b> , 16, 381-408	4.2	44
174	Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 620-32	4.2	43
173	BioMagResBank databases DOCR and FRED containing converted and filtered sets of experimental NMR restraints and coordinates from over 500 protein PDB structures. <i>Journal of Biomolecular NMR</i> , <b>2005</b> , 32, 1-12	3	43
172	The Supramolecular Organization of a Peptide-Based Nanocarrier at High Molecular Detail. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7775-84	16.4	42
171	Importance of lipid-pore loop interface for potassium channel structure and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13008-13	11.5	42

170	Protein-protein HADDOCKing using exclusively pseudocontact shifts. <i>Journal of Biomolecular NMR</i> , <b>2011</b> , 50, 263-6	3	42
169	dMM-PBSA: A New HADDOCK Scoring Function for Protein-Peptide Docking. <i>Frontiers in Molecular Biosciences</i> , <b>2016</b> , 3, 46	5.6	42
168	Turning defense into offense: defensin mimetics as novel antibiotics targeting lipid II. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003732	7.6	41
167	Pushing the limits of what is achievable in protein-DNA docking: benchmarking HADDOCK performance. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 5634-47	20.1	41
166	Specificity and affinity of Lac repressor for the auxiliary operators O2 and O3 are explained by the structures of their protein-DNA complexes. <i>Journal of Molecular Biology</i> , <b>2009</b> , 390, 478-89	6.5	41
165	Integrative Modelling of Biomolecular Complexes. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 2861-2881	6.5	40
164	Gentamicin binds to the megalin receptor as a competitive inhibitor using the common ligand binding motif of complement type repeats: insight from the nmr structure of the 10th complement type repeat domain alone and in complex with gentamicin. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 4424-35	5.4	39
163	Solution structure and DNA-binding properties of the C-terminal domain of UvrC from E.coli. <i>EMBO Journal</i> , <b>2002</b> , 21, 6257-66	13	39
162	Structural Biology in the Clouds: The WeNMR-EOSC Ecosystem. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 729513	5.6	39
161	Kinetics and thermodynamics of type VIII beta-turn formation: a CD, NMR, and microsecond explicit molecular dynamics study of the GDNP tetrapeptide. <i>Biophysical Journal</i> , <b>2006</b> , 90, 2745-59	2.9	38
160	Direct NOE refinement of biomolecular structures using 2D NMR data. <i>Journal of Biomolecular NMR</i> , <b>1991</b> , 1, 305-9	3	38
159	DisVis: quantifying and visualizing accessible interaction space of distance-restrained biomolecular complexes. <i>Bioinformatics</i> , <b>2015</b> , 31, 3222-4	7.2	37
158	Atomic insight into the CD4 binding-induced conformational changes in HIV-1 gp120. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 55, 582-93	4.2	36
157	Strengths and weaknesses of data-driven docking in critical assessment of prediction of interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 3242-9	4.2	35
156	Impaired peroxisome proliferator-activated receptor gamma function through mutation of a conserved salt bridge (R425C) in familial partial lipodystrophy. <i>Molecular Endocrinology</i> , <b>2007</b> , 21, 1049-65		35
155	Molecular origins of binding affinity: seeking the Archimedean point. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 868-77	8.1	34
154	Active-site architecture and catalytic mechanism of the lipid A deacylase LpxR of Salmonella typhimurium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1960-4	11.5	34
153	Combining NMR relaxation with chemical shift perturbation data to drive protein-protein docking. <i>Journal of Biomolecular NMR</i> , <b>2006</b> , 34, 237-44	3	34

152	Immunogenicity of peptide-vaccine candidates predicted by molecular dynamics simulations. <i>Journal of Molecular Biology</i> , <b>2003</b> , 328, 1083-9	6.5	34
151	Molecular Dynamics Simulations in Drug Discovery and Pharmaceutical Development. <i>Processes</i> , <b>2021</b> , 9, 71	2.9	34
150	A Machine Learning Approach for Hot-Spot Detection at Protein-Protein Interfaces. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	33
149	iSEE: Interface structure, evolution, and energy-based machine learning predictor of binding affinity changes upon mutations. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 110-119	4.2	33
148	Rapid prediction of multi-dimensional NMR data sets. <i>Journal of Biomolecular NMR</i> , <b>2012</b> , 54, 377-87	3	32
147	Data-driven homology modelling of P-glycoprotein in the ATP-bound state indicates flexibility of the transmembrane domains. <i>FEBS Journal</i> , <b>2009</b> , 276, 964-72	5.7	32
146	Finding the $\alpha$ spot: Are predictors of binding affinity changes upon mutations in protein-protein interactions ready for it?. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2019</b> , 9, e1410	7.9	32
145	Modeling protein-protein complexes using the HADDOCK webserver "modeling protein complexes with HADDOCK". <i>Methods in Molecular Biology</i> , <b>2014</b> , 1137, 163-79	1.4	31
144	M3: an integrative framework for structure determination of molecular machines. <i>Nature Methods</i> , <b>2017</b> , 14, 897-902	21.6	30
143	Solution structure of the ubiquitin-conjugating enzyme UbcH5B. <i>Journal of Molecular Biology</i> , <b>2004</b> , 344, 513-26	6.5	30
142	Mode of action of teixobactins in cellular membranes. <i>Nature Communications</i> , <b>2020</b> , 11, 2848	17.4	28
141	Characterizing the N- and C-terminal Small ubiquitin-like modifier (SUMO)-interacting motifs of the scaffold protein DAXX. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 19816-29	5.4	27
140	On the molecular basis of the recognition of angiotensin II (All). NMR structure of All in solution compared with the X-ray structure of All bound to the mAb Fab131. <i>FEBS Journal</i> , <b>2003</b> , 270, 849-60		27
139	Localisation and dynamics of sodium counterions around DNA in solution from molecular dynamics simulation. <i>European Biophysics Journal</i> , <b>2000</b> , 29, 57-60	1.9	27
138	iScore: a novel graph kernel-based function for scoring protein-protein docking models. <i>Bioinformatics</i> , <b>2020</b> , 36, 112-121	7.2	27
137	The GROMOS96 benchmarks for molecular simulation. <i>Computer Physics Communications</i> , <b>2000</b> , 128, 550-557	4.2	26
136	Fast and sensitive rigid-body fitting into cryo-EM density maps with PowerFit. <i>AIMS Biophysics</i> , <b>2015</b> , 2, 73-87	0.8	26
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