

**Supplementary Table S1:** A list of 211 pieces of software for CADD. Software was ranked according to the equation  $S_i = \log(10^6 \cdot C_i / C_{\text{total}})$  where  $S_i$  is the score for tool  $i$ ,  $C_i$  is the number of citations to tool  $i$ , and  $C_{\text{total}}$  is the number of citations to all tools considered. Number of citations was obtained using Google Scholar, last accessed on 14<sup>th</sup> April 2021.

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
1	HADDOCK	26490	4.7323	Docks protein–protein based on biochemical or biophysical information	Free	<a href="https://wenmr.science.uu.nl/haddock2.4/">https://wenmr.science.uu.nl/haddock2.4/</a>
2	AutoDock Autodock 1 Autodock 2.4 Autodock 3 Autodock 4 Autodock 4.2 Autodock Vina AutoDockFR AutoDockTools	22422	4.6599	Automated docking tools	Free	<a href="http://autodock.scripps.edu/">http://autodock.scripps.edu/</a>
3	Glide Glide 1.8 Glide 2 Glide 2.5	22091	4.6535	Rapid, Accurate Docking and Scoring approach	Subscription	<a href="https://www.schrodinger.com/glide">https://www.schrodinger.com/glide</a>
4	FlexX	19987	4.6100	Predicts the geometry of the protein–ligand complex and estimates the binding affinity	Free	<a href="https://www.biosolveit.de/FlexX/">https://www.biosolveit.de/FlexX/</a>
5	LigandFit	19890	4.6079	Presents a shape-based approach for docking ligands into the active site of the protein	Subscription	<a href="https://www.phenix-online.org/documentation/reference/ligandfit.html">https://www.phenix-online.org/documentation/reference/ligandfit.html</a>
6	AmberTools	14572	4.4728	A suite of biomolecular simulation programs	Subscription	<a href="https://ambermd.org/">https://ambermd.org/</a>
7	ENCoM	13145	4.4280	A coarse-grained normal mode analysis method utilized for different residues in proteins or nucleotides in RNA	Free	<a href="http://biophys.umontreal.ca/nrg/resources.html">http://biophys.umontreal.ca/nrg/resources.html</a>
8	PROCHECK-NMR	10783	4.3420	Checks the stereochemical quality of a protein structure solved by NMR	Free	<a href="https://www.ebi.ac.uk/thornton-srv/software/PROCHECK/">https://www.ebi.ac.uk/thornton-srv/software/PROCHECK/</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
9	MCDOCK	10603	4.3347	Allows for a full flexibility of ligands in the docking calculations	Free	DOI: 10.1021/jm990129n
10	ICM ICM 2.8 ICM-Dock	10271	4.3209	A new method for protein modelling and design applications to docking and structure prediction	Subscription	<a href="http://www.molsoft.com/docking.html">http://www.molsoft.com/docking.html</a>
11	Dock Dock2 Dock3 Dock4 Dock5 Dock6 Dock7 Dock8 Dock9	8181	4.2221	Based on Geometric Matching Algorithm	Free	<a href="http://dock.compbio.ucsf.edu/">http://dock.compbio.ucsf.edu/</a>
12	SOFT Docking	7474	4.1828	Predicts the sites of interaction between two cognate molecules based on their 3D structures	Subscription	<a href="https://doi.org/10.1016/0022-2836(91)90859-5">https://doi.org/10.1016/0022-2836(91)90859-5</a>
13	FDS	7188	4.1659	Cluster analysis based on distance similarities	Free	<a href="http://www.scfbio-iitd.res.in/dock/fds.jsp">http://www.scfbio-iitd.res.in/dock/fds.jsp</a>
14	DockVision	6950	4.1512	Increases capability to generate laudable results	Free	<a href="http://dockvision.sness.net/overview/overview.html">http://dockvision.sness.net/overview/overview.html</a>
15	PRODOCK	6442	4.1183	Renders the programming easier and the definition of molecular flexibility straighter forward	Subscription	<a href="https://doi.org/10.1002/(SICI)1096-987X(199903)20:4&lt;412::AID-JCC3&gt;3.0.CO;2-N">https://doi.org/10.1002/(SICI)1096-987X(199903)20:4&lt;412::AID-JCC3&gt;3.0.CO;2-N</a>
16	YASARA YASARA Dynamics YASARA Model YASARA NMR Module YASARA Structure YASARA View YASARA Virtual Reality Workstation YASARA/WHAT IF Twinset	5870	4.0779	A molecular-graphics, -modeling and -simulation program	Free	<a href="http://www.yasara.org/products.htm">http://www.yasara.org/products.htm</a>
17	KBDOCK	5820	4.0742	A program that proposes structural templates for protein docking	Free	<a href="http://kbdock.loria.fr/">http://kbdock.loria.fr/</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
18	TreeDock	5796	4.0724	A docking tool that is able explore all clash-free orientations at very fine resolution in a reasonable time	Subscription	<a href="https://doi.org/10.1021/ja011240x">https://doi.org/10.1021/ja011240x</a>
19	LePro	5639	4.0605	Generates docking input file for LeDock with refined protein atoms within 0.4 nm of any atom of the ligand	Free	<a href="http://www.lephar.com/download.htm">http://www.lephar.com/download.htm</a>
20	DockoMatic	5594	4.0570	A software that docks secondary ligands used to assist inverse virtual screening	Free	<a href="https://doi.org/10.1186/1756-0500-3-289">https://doi.org/10.1186/1756-0500-3-289</a>
21	SYBYL_ChemScore SYBYL_D-Score SYBYL_F-Score SYBYL_G-Score	5486	4.0485	A conformational sampling and scoring function	Subscription	<a href="https://doi.org/10.1021/jm0203783">https://doi.org/10.1021/jm0203783</a>
22	ZDOCK ZDOCKpro	5415	4.0429	A new scoring function for the initial stage of unbound docking	Subscription	<a href="http://zdock.umassmed.edu/">http://zdock.umassmed.edu/</a>
23	AADS	5087	4.0157	An automated active site identification, docking, and scoring protocol	Free	<a href="http://www.scfbio-iitd.res.in/dock/ActiveSite_new.jsp">http://www.scfbio-iitd.res.in/dock/ActiveSite_new.jsp</a>
24	Surflex Dock	4896	3.9991	An automatic and flexible molecular docking algorithm for rapid in-silico drug-screening applications	Subscription	<a href="https://doi.org/10.1007/s10822-007-9114-2">https://doi.org/10.1007/s10822-007-9114-2</a>
25	PyMOL PyMOL 1.4.1 PyMOL 2.1.1 PyMOL 2.4	4805	3.9910	An open-source, user-sponsored, molecular visualization system	Subscription	<a href="http://www.pymol.org">http://www.pymol.org</a>
26	FlipDock	4614	3.9733	Allows the automated docking of flexible ligand molecules into active sites of flexible receptor molecules	Free	<a href="http://flipdock.scripps.edu/">http://flipdock.scripps.edu/</a>
27	SymmDock	4545	3.9668	A Flexible Induced-fit Backbone Refinement in Molecular Docking	Free	<a href="http://bioinfo3d.cs.tau.ac.il/FiberDock/php.php">http://bioinfo3d.cs.tau.ac.il/FiberDock/php.php</a>
28	ClusPro	4360	3.9487	A widely used tool for protein-protein docking	Free	<a href="http://nrc.bu.edu/cluster">http://nrc.bu.edu/cluster</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
29	Surflex	4180	3.9304	A robust screening tool	Subscription	<a href="https://pubmed.ncbi.nlm.nih.gov/12570372/">https://pubmed.ncbi.nlm.nih.gov/12570372/</a>
30	ConsDock	4001	3.9114	A pose within 2 Å RMSD of the X-ray structure can be performed with this software	Subscription	<a href="https://doi.org/10.1002/prot.10119">https://doi.org/10.1002/prot.10119</a>
31	EADock	3961	3.9071	A software that is based on "evolutionary algorithms" that generates the good solution through sampling and recognizes this solution as the correct one by its scoring function	Free	<a href="http://www.swissdock.ch/">http://www.swissdock.ch/</a>
32	Fred	3953	3.9062	A program that docks 70 % of the structures within 2 Å in the cognate docking test	Subscription	<a href="https://www.eyesopen.com/oedocking-tk">https://www.eyesopen.com/oedocking-tk</a>
33	PASS	3907	3.9011	A prediction of Activity Spectra for Substances	Free	<a href="http://www.way2drug.com/passonline/">http://www.way2drug.com/passonline/</a>
34	PhDock	3890	3.8992	A determination of target-based theoretical pharmacophore	Free	<a href="http://iscreen.cmu.edu.tw/phdock.php">http://iscreen.cmu.edu.tw/phdock.php</a>
35	Robetta	3545	3.8589	A protein structure prediction service that is continually evaluated through Continuous Automated Model evaluation (CAMEO)	Subscription	<a href="http://robetta.bakerlab.org/">http://robetta.bakerlab.org/</a>
36	InterEvDock	3461	3.8485	An expanded server for protein docking using evolutionary and biological information from homology models and multimeric inputs	Free	<a href="https://mobyli.rpbs.univ-paris-diderot.fr/cgi-bin/portal.py#forms::InterEvDock2">https://mobyli.rpbs.univ-paris-diderot.fr/cgi-bin/portal.py#forms::InterEvDock2</a>
37	FlexDock	3433	3.8449	An algorithm for Automatic prediction of protein interactions with large scale motion	Subscription	<a href="http://bioinfo3d.cs.tau.ac.il/">http://bioinfo3d.cs.tau.ac.il/</a>
38	RiboDock	3316	3.8299	A virtual-screening system for automated flexible docking.	Free	<a href="https://doi.org/10.1023/B:JCAM.0000035199.48747.1e">https://doi.org/10.1023/B:JCAM.0000035199.48747.1e</a>
39	GASP	3271	3.8239	A "Genetic Algorithm Similarity Program" used for testing and investigating methods in statistical genetics by generating samples of	Subscription	<a href="https://doi.org/10.1023/A:1008844323931">https://doi.org/10.1023/A:1008844323931</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
				family data based on user specified models		
40	GOLD	3208	3.8155	A protein ligand docking software that enables you to make confident binding mode predictions, and achieve high database enrichments	Subscription	<a href="https://doi.org/10.1002/prot.10465">https://doi.org/10.1002/prot.10465</a>
41	FTDOCK	3205	3.8151	A tool that performs a global scan of translational and rotational space	Free	<a href="http://www.sbg.bio.ic.ac.uk/docking/download.html">http://www.sbg.bio.ic.ac.uk/docking/download.html</a>
42	QXP	3186	3.8125	A quick explore (QXP) search algorithm	Subscription	<a href="https://doi.org/10.1023/A:1007907728892">https://doi.org/10.1023/A:1007907728892</a>
43	GlamDock	3150	3.8076	A mapping-based description of the rigid body translation and rotation	Subscription	<a href="http://www.chil2.de/Glamdock.html">http://www.chil2.de/Glamdock.html</a>
44	PSO@AUTODOCK	3113	3.8024	A Fast and efficient protein ligand docking program based on swarm optimization	Subscription	<a href="https://doi.org/10.1111/j.1747-0285.2007.00588.x">https://doi.org/10.1111/j.1747-0285.2007.00588.x</a>
45	SKE-DOCK	3077	3.7974	A simple geometry docking and a knowledge base scoring function	Subscription	<a href="http://www.pharm.kitasato-u.ac.jp/bmd/files/SKE_DOCK.html">http://www.pharm.kitasato-u.ac.jp/bmd/files/SKE_DOCK.html</a>
46	Q-Dock(LHM)	3069	3.7963	A reduced representation mod description	Subscription	DOI: 10.1002/jcc.21395
47	PatchDock	2931	3.7763	An object recognition and image segmentation techniques used in computer vision	Subscription	<a href="http://bioinfo3d.cs.tau.ac.il/wk/index.php/Servers_%26_Software">http://bioinfo3d.cs.tau.ac.il/wk/index.php/Servers_%26_Software</a>
48	MS-DOCK	2804	3.7570	All multiple conformations are rigidly docked	Subscription	<a href="https://doi.org/10.1186/1471-2105-9-184">https://doi.org/10.1186/1471-2105-9-184</a>
49	PSI-DOCK	2638	3.7305	A docking method, Pose-Sensitive Inclined (PSI)-DOCK, for flexible ligand docking	Subscription	<a href="https://doi.org/10.1002/prot.20790">https://doi.org/10.1002/prot.20790</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
50	PostDOCK	2559	3.7173	A tool that distinguishes true binding ligand-protein complexes from docking artifacts	Subscription	<a href="https://doi.org/10.1021/jm0493360">https://doi.org/10.1021/jm0493360</a>
51	MolDock	2553	3.7163	Combining a differential evolution within a cavity prediction algorithm	Subscription	<a href="https://doi.org/10.1021/jm051197e">https://doi.org/10.1021/jm051197e</a>
52	MEDock	2510	3.7089	A worldwide search strategy that exploits the highest entropy attribute of the Gaussian probability distribution	Free	<a href="https://medock.ee.ncku.edu.tw/">https://medock.ee.ncku.edu.tw/</a>
53	SwarmDock	2449	3.6982	A flexible protein-protein docking method	Free	<a href="https://bmm.crick.ac.uk/~svc-bmm-swarmdock/submit.cgi">https://bmm.crick.ac.uk/~svc-bmm-swarmdock/submit.cgi</a>
54	GAsDock	2373	3.6846	A rapid, accurate, and flexible docking program	Subscription	<a href="https://doi.org/10.1016/j.bmcl.2004.06.091">doi:10.1016/j.bmcl.2004.06.091</a>
55	SDOCKER	2331	3.6768	A method utilizing available x-ray structures to improve docking accuracy	Free	<a href="https://github.com/xogeny/sdocker">https://github.com/xogeny/sdocker</a>
56	SOFTDOCK	2279	3.6670	A model continuity across development lifecycle	Subscription	<a href="https://doi.org/10.1109/DEXA.1999.795265">DOI: 10.1109/DEXA.1999.795265</a>
57	DOCK Blaster	2265	3.6643	A free web-based service for molecular docking and virtual screening	Subscription	<a href="http://blaster.docking.org">http://blaster.docking.org</a>
58	M-ZDOCK	2257	3.6628	A symmetric multimer docking	Subscription	<a href="http://zdock.umassmed.edu/m-zdock/">http://zdock.umassmed.edu/m-zdock/</a>
59	GAPDOCK	2249	3.6612	A molecular docking methodology explores the behaviour of small molecules in the binding site of a target protein	Subscription	<a href="https://doi.org/10.1002/prot.10386">https://doi.org/10.1002/prot.10386</a>
60	3D-QSAR	2232	3.6580	Simple and advanced tools for developing QSAR models	Free	<a href="https://www.3d-qsar.com/">https://www.3d-qsar.com/</a>
61	INVDOCK	2221	3.6558	A computer-automated identification of potential protein and nucleic acid (RNA or DNA) targets of a small molecule	Subscription	<a href="http://bidd.nus.edu.sg/group/software/invdock.htm">http://bidd.nus.edu.sg/group/software/invdock.htm</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
62	MOE	2216	3.6548	An integrated computer-aided molecular design platform	Subscription	<a href="https://www.chemcomp.com/Products.htm">https://www.chemcomp.com/Products.htm</a>
63	rDock rDock 3.0	2191	3.6499	A docking tool for small molecules against proteins and nucleic acids	Free	<a href="http://rdock.sourceforge.net/">http://rdock.sourceforge.net/</a>
64	DOCKoalent	2010	3.6125	Screens large virtual libraries of electrophilic small molecules	Free	<a href="http://covalent.docking.org/">http://covalent.docking.org/</a>
65	TarFisDock	1930	3.5948	A web server that docks small molecules with protein structures in the Potential Drug Target Database (PDTD) in an effort to discover new drug targets	Subscription	<a href="https://bio.tools/tarfisdock#!">https://bio.tools/tarfisdock#!</a>
66	SDOCK	1927	3.5941	Improves the efficiency and robustness of particle swarm optimization (PSO) for solving flexible protein-ligand docking problems	Subscription	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/jcc.21839">https://onlinelibrary.wiley.com/doi/abs/10.1002/jcc.21839</a> <a href="http://mdl.ipc.pku.edu.cn/cgi-bin/down.cgi">http://mdl.ipc.pku.edu.cn/cgi-bin/down.cgi</a>
67	FINDSITE-LHM	1926	3.5939	A homology modelling approach to flexible ligand docking that uses a collection of common molecule substructures derived from evolutionarily related templates as the reference compounds in similarity-based ligand binding pose prediction	Free	<a href="http://www.mybiosoftware.com/findsite-lhm-1-0-homology-modeling-approach-flexible-ligand-docking.html">http://www.mybiosoftware.com/findsite-lhm-1-0-homology-modeling-approach-flexible-ligand-docking.html</a>
68	DAIM-SEED-FFLD	1894	3.5866	DAIM (Decomposition and Identification of Molecules), SEED (Solvation Energy for Exhaustive Docking), and FFLD (Fragment-based Flexible Ligand Docking)	Free	<a href="http://www.biochem-caflisch.uzh.ch/movies/0003">http://www.biochem-caflisch.uzh.ch/movies/0003</a>
69	FlexPepDock	1891	3.5859	Able to refine a coarse starting structure of a peptide-protein complex to a near-native model of the interaction	Free	<a href="http://flexpepdock.furmanlab.cs.huji.ac.il/">http://flexpepdock.furmanlab.cs.huji.ac.il/</a>
70	VoteDock	1860	3.5788	Provides fast and accurate prediction method for 3D structure of a protein-ligand complex	Subscription	<a href="https://connects.catalyst.harvard.edu/Profiles/display/1104658">https://connects.catalyst.harvard.edu/Profiles/display/1104658</a>
71	CDocker	1846	3.5755	Molecular dynamics (MD) simulated-annealing-based algorithm.	Free	<a href="https://doi.org/10.1002/jcc.10306">https://doi.org/10.1002/jcc.10306</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
72	POSIT	1792	3.5626	A new approach to structure-based drug design (POSIT) rigorously built on the simple concept that pose prediction is intimately coupled to the quality and availability of experimental structural data	Free	<a href="https://docs.eyesopen.com/applications/oedocking/posit/posit_overview.html">https://docs.eyesopen.com/applications/oedocking/posit/posit_overview.html</a>
73	DynaDock	1709	3.5420	Used for docking peptides into flexible receptors	Free	<a href="https://doi.org/10.1002/prot.22629">https://doi.org/10.1002/prot.22629</a>
74	PepCrawler	1700	3.5397	A fast RRT-based algorithm for high-resolution refinement and binding-affinity estimation of peptide inhibitors	Free	<a href="http://bioinfo3d.cs.tau.ac.il/PepCrawler/php.php">http://bioinfo3d.cs.tau.ac.il/PepCrawler/php.php</a>
75	GEMDOCK GemDock 1.0 GemDock 2.0 GemDock 2.1 GemDock cent OS5 GemDock linux 9 GemDock-windos	1666	3.5309	Uses a Generic Evolutionary Method for molecular docking (GEMDOCK) and an empirical scoring function	Free	<a href="http://gemdock.life.nctu.edu.tw/dock/">http://gemdock.life.nctu.edu.tw/dock/</a>
76	FireDock	1654	3.5278	An efficient method for refinement and re-scoring of rigid-body protein-protein docking solutions	Free	<a href="http://bioinfo3d.cs.tau.ac.il/FireDock/">http://bioinfo3d.cs.tau.ac.il/FireDock/</a>
77	CovalentDock	1648	3.5262	Used for covalent bonds	Subscription	<a href="https://doi.org/10.1002/jcc.23136">https://doi.org/10.1002/jcc.23136</a>
78	pyDock	1644	3.5252	A program which was implemented in order to check the scoring of rigid-body docking poses	Subscription	<a href="https://life.bsc.es/pid/pydock/get_pydock.html">https://life.bsc.es/pid/pydock/get_pydock.html</a>
79	DOCKGROUND	1629	3.5212	Implements a comprehensive database of co-crystallized (bound-bound) protein-protein complexes	Free	<a href="http://dockground.bioinformatics.ku.edu/">http://dockground.bioinformatics.ku.edu/</a>
80	SODOCK	1564	3.5035	Based on particle swarm optimization (PSO) for solving flexible protein-ligand docking problems	Free	<a href="http://www.mybiosoftware.com/tag/sodock">http://www.mybiosoftware.com/tag/sodock</a>
81	SwissDock	1476	3.4783	A web-server program dedicated to the docking of small molecules on target proteins	Free	<a href="http://www.swissdock.ch/docking">http://www.swissdock.ch/docking</a>



No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
82	MedusaDock	1471	3.4769	Models ligand and receptor flexibility simultaneously with sets of discrete rotamers	Free	<a href="https://dokhlab.med.psu.edu/medusadock/#/NewTask">https://dokhlab.med.psu.edu/medusadock/#/NewTask</a>
83	FiberDock	1427	3.4637	An efficient method for flexible refinement and re-scoring of rigid-body protein-protein docking solutions	Free	<a href="http://bioinfo3d.cs.tau.ac.il/FiberDock">http://bioinfo3d.cs.tau.ac.il/FiberDock</a>
84	VSDMIP	1426	3.4634	Virtual screening data management on an integrated platform	Free	<a href="https://ub.cbm.uam.es/software/vsdmip/">https://ub.cbm.uam.es/software/vsdmip/</a>
85	GalaxySite	1426	3.4634	An installation of the Galaxy software combined with many common tools and data	Free	<a href="http://galaxy.seoklab.org/site">http://galaxy.seoklab.org/site</a>
86	FlexX-Scan	1365	3.4444	Developed to enhance the speed of the virtual screening process	Subscription	<a href="https://pubmed.ncbi.nlm.nih.gov/15382244/">https://pubmed.ncbi.nlm.nih.gov/15382244/</a>
87	Kinome Render	1346	3.4383	Produces customized annotations on the human kinome tree	Free	<a href="http://biophys.umontreal.ca/nrg/resources.html">http://biophys.umontreal.ca/nrg/resources.html</a>
88	Fleksy	1333	3.4341	An approach to consider both ligand and receptor flexibility in small molecule docking	Subscription	<a href="https://doi.org/10.1021/jm070593p">https://doi.org/10.1021/jm070593p</a>
89	KinDock	1319	3.4295	A web server for the analysis of ATP-binding sites of protein kinases	Obsolete	<a href="http://abcis.cbs.cnrs.fr/kindock/">http://abcis.cbs.cnrs.fr/kindock/</a>
90	PharmDock	1306	3.4252	A pharmacophore-based docking program that combines pose sampling and ranking based on optimized protein-based pharmacophore models	Free	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4012150/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4012150/</a>
91	GriDock	1284	3.4178	Designed to perform the molecular dockings of a large number of ligands stored in a single database (in a format supported by VEGA)	Free	<a href="https://www.ddl.unimi.it/cms/index.php?Software_projects:GriDock">https://www.ddl.unimi.it/cms/index.php?Software_projects:GriDock</a>
92	ParaDockS	1282	3.4171	Designed to hold different optimization algorithms and objective functions and provides an accurate prediction of protein–DNA complexes	Subscription	<a href="https://doi.org/10.1021/ci900467x">https://doi.org/10.1021/ci900467x</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
93	EpiDOCK	1270	3.4131	The first structure-based server that predicts binding to the 23 most frequent MHC class II binding proteins	Free	<a href="http://www.ddg-pharmfac.net/epidock/">http://www.ddg-pharmfac.net/epidock/</a>
94	MacDOCK	1248	3.4055	Able to generate orientations consistent with the known covalent binding mode of these complexes	Subscription	DOI: 10.1007/s10822-004-5291-4
95	FIPSDock	1239	3.4023	Implements a variant of the Fully Informed Particle Swarm (FIPS) optimization method	Subscription	<a href="http://hub.hku.hk/handle/10722/189104">http://hub.hku.hk/handle/10722/189104</a>
96	Flexidock	1239	3.4023	Brings the convenience of a HDD docking station, with the performance of a HDD mobile rack	Subscription	<a href="http://scholar.dkyobobook.co.kr/searchDetail.laf?barcode=4010024416172">http://scholar.dkyobobook.co.kr/searchDetail.laf?barcode=4010024416172</a>
97	Smina	1230	3.3992	A general methodology for designing an empirical scoring function	Free	<a href="https://pypi.org/project/docking-py/">https://pypi.org/project/docking-py/</a>
98	BetaDock	1228	3.3985	A molecular docking simulation software based on the theory of Beta-complex	Free	DOI: 10.1080/07391102.2011.10507384
99	FLOG	1215	3.3938	Flexible Ligands Oriented on Grid that searches a database of 3D coordinates to explore molecules complementary to a macromolecular receptor of known 3D structure	Subscription	<a href="https://doi.org/10.1007/BF00119865">https://doi.org/10.1007/BF00119865</a>
100	Combibuild	1206	3.3906	Builds combinatorial libraries for CRISPR screening	Subscription	<a href="https://doi.org/10.1021/jm010338j">https://doi.org/10.1021/jm010338j</a>
101	MoDock	1174	3.3789	A main method of structure-based virtual screening	Subscription	<a href="https://doi.org/10.1186/s13015-015-0034-8">https://doi.org/10.1186/s13015-015-0034-8</a>
102	CRDOCK	1173	3.3786	Contains a search engine, several energy minimization algorithms, and different scorings	Free	DOI: 10.1021/ci300194a
103	FRDOCK	1154	3.3715	Fast rotational docking based on FRM (Fast Rotational Method) to perform protein-protein docking	Free	<a href="http://frodock.chaconlab.org/">http://frodock.chaconlab.org/</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
104	GalaxyDock GalaxyDock1 GalaxyDock2 GalaxyDock3 GalaxyDock BP2	1154	3.3715	Allows flexibility of pre-selected side-chains of ligand using Conformational Space Annealing	Free	<a href="http://galaxy.seoklab.org/software/galaxydock.html">http://galaxy.seoklab.org/software/galaxydock.html</a>
105	SANDOCK	1153	3.3711	Uses point complementary method that is based on shape and chemical complementarity between interacting molecules	Subscription	DOI: 10.1006/jmbi.1997.1608
106	VSDocker	1143	3.3673	Allows using autodock4 for optimized virtual ligand screening on computer clusters	Subscription	<a href="https://www.hsls.pitt.edu/obrc/index.php?page=URL1275058861">https://www.hsls.pitt.edu/obrc/index.php?page=URL1275058861</a>
107	EUDOC	1114	3.3561	A computer program for identification of drug interaction sites in macromolecules and drug leads from chemical databases	Subscription	<a href="https://doi.org/10.1002/jcc.1129">https://doi.org/10.1002/jcc.1129</a>
108	PyRX PyRX 0.5 PyRX 0.7 PyRX 0.8 PyRX 0.9.6 PyRX 0.9.8	1085	3.3447	A tool for Rational Drug Design	Free & Subscription	<a href="https://pyrx.sourceforge.io/">https://pyrx.sourceforge.io/</a>
109	CombDock	1078	3.3419	A combinatorial docking algorithm for the structural units-assembly problem	Subscription	<a href="http://bioinfo3d.cs.tau.ac.il/wk/index.php/Servers_%26_Software">http://bioinfo3d.cs.tau.ac.il/wk/index.php/Servers_%26_Software</a>
110	FastDock	1044	3.3280	Lamarckian genetic algorithm to estimate the binding affinities between the structures	Free	<a href="https://pypi.org/project/fastdock/">https://pypi.org/project/fastdock/</a>
111	Lead finder Leadfinder 2.3 Leadfinder 3.8	1029	3.3217	Provides a fast rate of calculations with unique scoring function that provides unsurpassed accuracy of calculations	Subscription	<a href="https://www.cresset-group.com/software/lead-finder/">https://www.cresset-group.com/software/lead-finder/</a>
112	pyDockTET	1009	3.3131	A tethered-docking program which uses rigid-body docking system to generate domain-domain poses	Subscription	DOI: 10.1186/1471-2105-9-441
113	MADAMM	1008	3.3127	Utilizes rotamer libraries to produce several combinations of conformers	Subscription	<a href="https://doi.org/10.1002/prot.22146">https://doi.org/10.1002/prot.22146</a>
114	pyDockRST	1003	3.3106	Uses the percentage of satisfied restrains	Subscription	DOI: 10.1016/j.jmb.2006.01.001

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
115	DOCKTITE	995	3.3071	Utilized for covalent docking in the Molecular Operating Environment (MOE)	Subscription	<a href="https://pubs.acs.org/doi/10.1021/ci500681r">https://pubs.acs.org/doi/10.1021/ci500681r</a>
116	pyDockCG	992	3.3058	A coarse-grained potential for protein-protein docking scoring and refinement, based on the known UNRES model for polypeptide chains	Subscription	<a href="https://doi.org/10.1021/jp112292b">https://doi.org/10.1021/jp112292b</a>
117	ASEDock	990	3.3049	Based on a shape similarity assessment between a concave portion and the ligand	Subscription	<a href="https://doi.org/10.1021/ci700352q">https://doi.org/10.1021/ci700352q</a>
118	IsoMIF	975	3.2983	Allows to identify binding site molecular interaction field (MIF) similarities between pairs of structures	Free	<a href="http://biophys.umontreal.ca/nrg/resources.html">http://biophys.umontreal.ca/nrg/resources.html</a>
119	LigDockCSA	975	3.2983	Combines a highly efficient search method with a scoring function based on the autodock energy function with a piecewise linear potential (PLP) torsional energy	Subscription	<a href="https://doi.org/10.1002/jcc.21905">https://doi.org/10.1002/jcc.21905</a>
120	GalaxyPepDock	946	3.2851	A web server for protein structure prediction, refinement, and related methods Protein-peptide docking based on interaction similarity	Free	<a href="http://galaxy.seoklab.org/pepdock">http://galaxy.seoklab.org/pepdock</a>
121	pyDockWEB	924	3.2749	A web server for the rigid- body docking forecast of protein-protein complex structures using an updated version of the pydock scoring algorithm	Free	<a href="https://life.bsc.es/pid/pydockweb">https://life.bsc.es/pid/pydockweb</a>
122	AnchorDock	912	3.2693	Automatically identifying anchoring spots on the protein surface	Subscription	<a href="https://doi.org/10.1016/j.str.2015.03.010">https://doi.org/10.1016/j.str.2015.03.010</a>
123	ArgusLab	883	3.2552	A molecular modelling graphics and drug design program for Windows OS	Free	<a href="http://www.arguslab.com/arguslab.com/ArgusLab.html">http://www.arguslab.com/arguslab.com/ArgusLab.html</a>
124	idock	882	3.2547	A multithreaded virtual screening tool for flexible ligand docking for computational drug discovery	Subscription	<a href="https://GitHub.com/HongjianLi/idock">https://GitHub.com/HongjianLi/idock</a>
125	HybridDock	854	3.2407	Significantly improves the performance in both binding affinity and binding mode predictions, compared to the sole mdock program	Subscription	<a href="https://doi.org/10.1021/acs.jcim.5b00275">https://doi.org/10.1021/acs.jcim.5b00275</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
126	ParaDock	840	3.2335	Rigid protein flexible DNA Docking	Free	<a href="http://bioinfo3d.cs.tau.ac.il/ParaDock/php.php">http://bioinfo3d.cs.tau.ac.il/ParaDock/php.php</a>
127	WinDock	810	3.2177	Designed to help researchers perform structure-based drug discovery tasks	Subscription	<a href="https://doi.org/10.1002/jcc.20756">https://doi.org/10.1002/jcc.20756</a>
128	OptiDock	787	3.2052	Involves choosing a representative subset of compounds	Subscription	<a href="https://doi.org/10.1021/cc034068x">https://doi.org/10.1021/cc034068x</a>
129	BiGGER	765	3.1929	Predicts the mode of binding between two proteins	Free	<a href="https://doi.org/10.1002/(SICI)1097-0134(20000601)39:4&lt;372::AID-PROT100&gt;3.0.CO;2-Q">https://doi.org/10.1002/(SICI)1097-0134(20000601)39:4&lt;372::AID-PROT100&gt;3.0.CO;2-Q</a>
130	MTiOpenScreen	759	3.1895	Automated ligand docking into entire protein surface for up to 10 ligands allowing to detect druggable cavities using autodock 4.2	Free	<a href="http://bioserv.rpbs.univ-paris-diderot.fr/services/MTiOpenScreen/">http://bioserv.rpbs.univ-paris-diderot.fr/services/MTiOpenScreen/</a>
131	HomDock	752	3.1855	Improves docking accuracy and efficiency	Subscription	<a href="http://www.chil2.de/HomDock.html">http://www.chil2.de/HomDock.html</a>
132	BDOCK	745	3.1814	An enzyme-inhibitor docking algorithm based on the degree of burial and conservation of surface residues	Free	<a href="http://www.biotec.tu-dresden.de/~approximatively_bhuang/bdock">www.biotec.tu-dresden.de /approximatively bhuang/bdock</a>
133	LiGendock	730	3.1726	Based on pharmacophore models of binding sites, including a non-enumerative docking calculation	Subscription	<a href="https://doi.org/10.1021/ci400079k">https://doi.org/10.1021/ci400079k</a>
134	DockBench	726	3.1702	Handles seven docking software packages and offers the possibility to test up to seventeen different protocols	Free	<a href="https://doi.org/10.3390/molecules20069977">doi: 10.3390/molecules20069977</a>
135	AUDocker LE	673	3.1373	Designed to develop a software tool as a front-end graphical interface	Free	<a href="https://doi.org/10.1186/1756-0500-4-445">DOI: 10.1186/1756-0500-4-445</a>
136	3dRPC	667	3.1334	Developed as an automated method for predicting 3D structures of RNA-protein	Free	<a href="http://biophy.hust.edu.cn/3dRPC.html">http://biophy.hust.edu.cn/3dRPC.html</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
137	DarwinDock	665	3.1321	Isolates posing and scoring into separate stages to allow complete binding site sampling	Subscription	<a href="https://resolver.caltech.edu/CaltechTHESIS:06122017-230026717">https://resolver.caltech.edu/CaltechTHESIS:06122017-230026717</a>
138	VLifeMDS	648	3.1208	An integrated platform for Computer Aided Drug Design (CADD) and molecular discovery	Subscription	<a href="https://www.vlifesciences.com/products/VLifeMDS/Product_VLifeMDS.php">https://www.vlifesciences.com/products/VLifeMDS/Product_VLifeMDS.php</a>
139	pDOCK	630	3.1086	An experimental pygtk docking implementation	Free	<a href="https://pypi.org/project/pdock/">https://pypi.org/project/pdock/</a>
140	CovalentDock Cloud	621	3.1023	Provides a simple user-friendly web interface to perform covalent docking	Free	<a href="http://docking.sce.ntu.edu.sg/">http://docking.sce.ntu.edu.sg/</a>
141	SLIM (BSP-SLIM) SLIM21	613	3.0967	A blind molecular docking method on low-resolution protein structures	Free	<a href="https://zhanglab.ccmb.med.umich.edu/BSP-SLIM/">https://zhanglab.ccmb.med.umich.edu/BSP-SLIM/</a>
142	3dRNAscore	590	3.0801	Developed as an automated method for predicting 3D structures of noncoding RNAs	Free	<a href="http://biophy.hust.edu.cn/3dRNAscore.html">http://biophy.hust.edu.cn/3dRNAscore.html</a>
143	FlexAID	588	3.0786	Can use small-molecules and peptides as ligands while uses proteins/nucleic acids as targets	Free	<a href="http://biophys.umontreal.ca/nrg/resources.html">http://biophys.umontreal.ca/nrg/resources.html</a>
144	LeDock	588	3.0786	Can be used for docking of ligands with protein target	Free	<a href="http://www.lephar.com/download.htm">http://www.lephar.com/download.htm</a>
145	MemDock	585	3.0764	Membrane protein docking algorithm	Free	<a href="http://bioinfo3d.cs.tau.ac.il/Memdock/php.php">http://bioinfo3d.cs.tau.ac.il/Memdock/php.php</a>
146	TagDock	584	3.0757	Generates 3D models of oligomeric biomolecular complexes	Subscription	<a href="https://doi.org/10.1021/bi400158k">https://doi.org/10.1021/bi400158k</a>
147	MDockPeP	580	3.0727	Docks the all-atom, flexible peptide onto the whole protein	Free	<a href="http://zougrouptoolkit.missouri.edu/mdockpep/">http://zougrouptoolkit.missouri.edu/mdockpep/</a>
148	ASPDock	578	3.0712	Atomic Solvation Parameters (ASP) model which is used for calculating the	Subscription	<a href="http://biophy.hust.edu.cn/ASPDock.html">http://biophy.hust.edu.cn/ASPDock.html</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
				binding free energy of protein complexes		
149	PythDock	566	3.0621	Uses Python programming language with a simple scoring function and a population-based search engine	Subscription	<a href="https://doi.org/10.1007/s12272-011-0906-5">https://doi.org/10.1007/s12272-011-0906-5</a>
150	HDOCK	541	3.0425	Predicts the binding complexes between two molecules like proteins and nucleic acids by using a hybrid docking strategy	Free	<a href="http://hdock.phys.hust.edu.cn/">http://hdock.phys.hust.edu.cn/</a>
151	iGEMDOCK	536	3.0384	Can enrich the hit rate and provide biological insights by deriving the pharmacological interactions from screening compounds	Free	<a href="http://gemdock.life.nctu.edu.tw/dock/igemdock.php">http://gemdock.life.nctu.edu.tw/dock/igemdock.php</a>
152	DockRank	528	3.0319	Improves the scoring of docked poses, outperforms several energy-based scoring functions, and prioritizing ligands according to their affinity	Subscription	<a href="https://pubmed.ncbi.nlm.nih.gov/23873600/">https://pubmed.ncbi.nlm.nih.gov/23873600/</a>
153	ROSIE (Rosetta Online)	524	3.0286	Provides the 3D structure prediction and high-resolution design of natural and non-natural polymers	Free	<a href="https://rosie.rosettacommons.org/">https://rosie.rosettacommons.org/</a>
154	ISE-Dock	492	3.0012	Eliminates values that consistently lead to the worst results, thus optimizing the search for docking poses	Subscription	<a href="https://pubmed.ncbi.nlm.nih.gov/18058908/">https://pubmed.ncbi.nlm.nih.gov/18058908/</a>
155	NRGsuite	490	2.9995	Gives access to powerful docking simulations that can be used in structure-guided drug design as well as an educational tool	Free	<a href="http://biophys.umontreal.ca/nrg/resources.html">http://biophys.umontreal.ca/nrg/resources.html</a>
156	evERdock	488	2.9977	Calculates binding free energy relaying on molecular dynamics (MD) simulations	Subscription	<a href="https://doi.org/10.1063/1.5019864">https://doi.org/10.1063/1.5019864</a>
157	LeWater	474	2.9850	Filter docking poses and/or integrated into a scoring function to improve the accuracy of predicted binding affinity	Free	<a href="http://www.lephar.com/download.htm">http://www.lephar.com/download.htm</a>
158	LibDock	472	2.9832	Enable a safe and efficient loading and unloading while reducing downtime to a minimum	Free	<a href="https://www.bioz.com/result/libdock/product/Accelrys">https://www.bioz.com/result/libdock/product/Accelrys</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
159	bhDock	463	2.9748	Uses two-step algorithm. First, low-resolution binding sites. Second, molecular dynamics	Free	DOI: 10.1002/jcc.21394
160	PLANTS	462	2.9739	PLANTS (Protein-Ligand ANT System), which is based on ant colony optimization	Subscription	<a href="https://doi.org/10.1021/ci800298z">https://doi.org/10.1021/ci800298z</a>
161	VLifeDock	460	2.9720	Explores binding mode of ligand over a grid	Subscription	<a href="https://www.vlifesciences.com/products/Functional_products/VLifeDock.php">https://www.vlifesciences.com/products/Functional_products/VLifeDock.php</a>
162	HiPCDock	432	2.9447	High-performance computing-based molecular docking scheme which is termed hipcdock	Subscription	<a href="https://pubmed.ncbi.nlm.nih.gov/19525200/">https://pubmed.ncbi.nlm.nih.gov/19525200/</a>
163	eSimDock	431	2.9437	Employs non-linear machine learning-based scoring functions to improve the accuracy of ligand ranking	Subscription	<a href="https://pubmed.ncbi.nlm.nih.gov/24171431/">https://pubmed.ncbi.nlm.nih.gov/24171431/</a>
164	DockingApp	400	2.9113	Explores the behavior of small molecules in the binding site of a target protein	Free	<a href="https://doi.org/10.1007/s10822-016-0006-1">https://doi.org/10.1007/s10822-016-0006-1</a>
165	DockDE	387	2.8970	Showed remarkable performance in terms of convergence speed and robustness regarding the found solution	Subscription	<a href="https://link.springer.com/article/10.1023/A:1008202821328">https://link.springer.com/article/10.1023/A:1008202821328</a>
166	YUCCA	352	2.8558	A new algorithm for rigid protein–small-molecule docking	Subscription	<a href="https://doi.org/10.1002/cbdv.200590123">https://doi.org/10.1002/cbdv.200590123</a>
167	RPDOCK	348	2.8508	A docking procedure specific to RNA-protein complexes	Subscription	<a href="https://www.nature.com/articles/srep01887">https://www.nature.com/articles/srep01887</a>
168	ADAM	348	2.8508	Predicts a stable binding mode to target flexible ligand molecule macromolecule	Subscription	<a href="http://adam.vbi.vt.edu">http://adam.vbi.vt.edu</a>
169	QSAR-Co	346	2.8483	Setup classification-based QSAR models that allow mining the response data coming from multiple conditions	Free	<a href="https://sites.google.com/view/qsar-co">https://sites.google.com/view/qsar-co</a>
170	SymmRef	315	2.8076	Flexible backbone and side-chain refinement and re-scoring of symmetric rigid-body	Free	<a href="http://bioinfo3d.cs.tau.ac.il/SymmRef/php.php">http://bioinfo3d.cs.tau.ac.il/SymmRef/php.php</a>



No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
171	DockQ	310	2.8006	A continuous protein-protein docking model quality measure	Free	<a href="http://github.com/bjornwallner/DockQ/">http://github.com/bjornwallner/DockQ/</a>
172	HSYMDOCK	280	2.7564	Symmetric protein docking for oligomers with Cn or Dn symmetry from the structure or sequence of a subunit molecule	Free	<a href="http://huanglab.phys.hust.edu.cn/hsymdock/">http://huanglab.phys.hust.edu.cn/hsymdock/</a>
173	MEGADOCK	256	2.7175	A structural bioinformatics software for FFT-grid-based protein-protein docking that takes advantage of CUDA architecture of NVIDIA graphics processing units (GPUs) and multiple computation nodes	Free	<a href="http://www.bi.cs.titech.ac.jp/megadock">http://www.bi.cs.titech.ac.jp/megadock</a>
174	Molegro	242	2.6931	Shown to outperform other docking programs with regard to identification of correct binding modes	Free	<a href="http://molexus.io/molegro-molecular-viewer/">http://molexus.io/molegro-molecular-viewer/</a>
175	LightDock	240	2.6895	Optimizes the generated docking poses towards those energetically more favourable at every simulation step	Free	<a href="https://github.com/brianjimenez/lightdock">https://github.com/brianjimenez/lightdock</a>
176	MEGADOCK-GPU	232	2.6747	A fast, improved, protein-protein docking prediction by introducing a simple hydrophobic interaction model	Free	<a href="http://www.bi.cs.titech.ac.jp/megadock/gpu/">http://www.bi.cs.titech.ac.jp/megadock/gpu/</a>
177	GetCleft	228	2.6672	Built-in and gives the possibility to refine and measure the volume of cavities	Free	<a href="http://biophys.umontreal.ca/nrg/resources.html">http://biophys.umontreal.ca/nrg/resources.html</a>
178	Snapdock	224	2.6595	Employs a Geometric Hashing-based structural alignment scheme to align the target proteins to the interfaces of non-redundant protein-protein interface libraries	Subscription	<a href="https://doi.org/10.1093/bioinformatics/btx233">https://doi.org/10.1093/bioinformatics/btx233</a>
179	ProQDock	219	2.6497	Uses support vector machines trained to predict the quality of protein docking models using features that can be calculated from the docking model itself	Free	<a href="http://bioinfo.ifm.liu.se/ProQDock">http://bioinfo.ifm.liu.se/ProQDock</a>
180	Ligin	193	2.5948	Uses surface complementarity approach for predicting the structure of ligand-receptor complex	Subscription	<a href="https://doi.org/10.1002/(SICI)1097-0134(1997)1+&lt;210::AID-PROT28&gt;3.0.CO;2-Q">https://doi.org/10.1002/(SICI)1097-0134(1997)1+&lt;210::AID-PROT28&gt;3.0.CO;2-Q</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
181	2dRNA	182	2.5693	Predicts RNA secondary structure	Free	<a href="http://biophy.hust.edu.cn/2dRNA/download">http://biophy.hust.edu.cn/2dRNA/download</a>
182	DockTrina	177	2.5572	A protein docking technique for demonstrating the 3D structures of nonsymmetrical triangular trimers	Free	<a href="https://team.inria.fr/nano-d/software/docktrina/">https://team.inria.fr/nano-d/software/docktrina/</a>
183	FITTED	175	2.5523	Can deal with both the flexibility of macromolecules (side chains and main chains) and the presence of bridging water molecules	Free	<a href="http://mgltools.scripps.edu/documentation/links/fitted">http://mgltools.scripps.edu/documentation/links/fitted</a>
184	DockThor	158	2.5079	Performs pose prediction on redocking studies	Free	<a href="https://www.dockthor.lncc.br/">https://www.dockthor.lncc.br/</a>
185	HYBRID	156	2.5024	The HYBRID program uses a modified version of FRED's algorithm that uses both ligand- and structure-based information to dock molecules	Subscription	<a href="https://www.eyesopen.com/oedocking-tk">https://www.eyesopen.com/oedocking-tk</a>
186	PATIDOCK	154	2.4968	Relies solely on the 3D structure of the individual components and the experimentally derived Residual Dipolar Couplings (RDCs) for the complex	Subscription	<a href="https://doi.org/10.1021/ja100447p">https://doi.org/10.1021/ja100447p</a>
187	TCRFlexDock	147	2.4766	Produces relatively accurate docking models (average interface RMSDs less than 2 Å from bound)	Free	<a href="http://www.cbs.dtu.dk/services/TCRpMHCmodels/index.php">http://www.cbs.dtu.dk/services/TCRpMHCmodels/index.php</a>
188	mtsslDock mtsslSuite mtsslTrilaterate mtsslWizard	138	2.4491	Enables the user to dock two macromolecules based on a set of experimental PELDOR distances	Subscription	<a href="http://www.mtsslsuite.isb.ukbonn.de/">http://www.mtsslsuite.isb.ukbonn.de/</a>
189	Schrödinger	133	2.4331	Delivers actual creditable and high achievement computational dependent technology to solution in life science and other applied science research	Free	<a href="https://www.schrodinger.com/freemaestro">https://www.schrodinger.com/freemaestro</a>
190	SnugDock	95	2.2870	Predicts antibody-antigen complexes through optimization of antibody degrees of freedom relevant to binding	Subscription	<a href="https://www.rosettacommons.org/docs/latest/application_documentation/antibody/snugdock">https://www.rosettacommons.org/docs/latest/application_documentation/antibody/snugdock</a>
191	ScoreDock	82	2.2231	Improves the docking accuracy and was shown to be reliable in docking quality assessment	Subscription	DOI: 10.1023/a:1011188704521

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
192	DockAFM	70	2.1544	Establishes a link between topographic images from AFM and molecular dynamics of single proteins	Free	<a href="http://biodev.cea.fr/dockafm/">http://biodev.cea.fr/dockafm/</a>
193	hint!	61	2.0946	An empirical molecular modelling system with new methods for de novo drug design and protein or nucleic acid structural analysis	Subscription	<a href="https://doi.org/10.1007/BF00135313">https://doi.org/10.1007/BF00135313</a>
194	S3DB	44	1.9527	A database of manually curated target and ligand structures	Free	<a href="http://www.swissdock.ch/">http://www.swissdock.ch/</a>
195	SCIGRESS	41	1.9220	Computational chemistry integrated platform SCIGRESS	Subscription	<a href="https://doi.org/10.11546/cicsj.26.122">https://doi.org/10.11546/cicsj.26.122</a>
196	LeFrag	39	1.9003	Automatically decompose all small molecules in a library into fragments	Free	<a href="http://www.lephar.com/download.htm">http://www.lephar.com/download.htm</a>
197	IMOLSDOCK	36	1.8656	Uses mutually orthogonal Latin squares (MOLS) to sample the conformation and the docking pose of the ligand and also the flexible residues of the receptor protein	Subscription	<a href="https://doi.org/10.1016/j.jmgm.2017.03.008">https://doi.org/10.1016/j.jmgm.2017.03.008</a>
198	molecularforecaster	35	1.8533	Used for drug discovery, metabolism prediction, combinatorial chemistry, and asymmetric catalyst design	Free	<a href="https://www.molecularforecaster.com/">https://www.molecularforecaster.com/</a>
199	MpSDock MpSDockZn	35	1.8533	A metalloprotein-specific docking program, which runs on a scheme similar to consensus scoring consisting	Subscription	<a href="http://www.lilab-ecust.cn/home/resource/14.html">http://www.lilab-ecust.cn/home/resource/14.html</a>
200	Hammerhead	31	1.8006	Fast, fully automated docking of flexible ligands to protein binding sites	Subscription	<a href="https://doi.org/10.1016/s1074-5521(96)90093-9">doi:10.1016/s1074-5521(96)90093-9</a>
201	UDock	31	1.8006	Interactive protein docking system, intended for both naive and experienced users	Free	<a href="http://udock.fr">http://udock.fr</a>
202	MEGADOCK-Web	29	1.7717	A database of protein-protein interactions (ppis) predicted by an FFT-grid-based protein-protein docking software, MEGADOCK	Free	<a href="http://www.bi.cs.titech.ac.jp/megadock-web/">http://www.bi.cs.titech.ac.jp/megadock-web/</a>

No.	Software	No. of citations to published studies	Score	Features	Accessibility	Website
203	DockScore	18	1.5645	Can be utilized to rank protein-protein docked poses	Free	<a href="http://caps.ncbs.res.in/dockscore/">http://caps.ncbs.res.in/dockscore/</a>
204	DockAnalyse	18	1.5645	Analysis of protein-protein interactions	Free	<a href="http://bioinf.uab.es/rker/DockAnalyse/DockAnalyse.zip">http://bioinf.uab.es/rker/DockAnalyse/DockAnalyse.zip</a>
205	mApfDock	13	1.4232	The docking of candidates to atomic property fields derived by co-crystallized ligands	Subscription	<a href="https://doi.org/10.4155/fmc.14.113">https://doi.org/10.4155/fmc.14.113</a>
206	mPockDock	13	1.4232	Reduces the rate of false-negatives in activity prediction by docking flexible 3D models of compounds include multi-conformational docking	Subscription	<a href="https://doi.org/10.4155/fmc.14.113">https://doi.org/10.4155/fmc.14.113</a>
207	FlexGAsDock	13	1.4232	Based on the hierarchical docking strategy	Subscription	<a href="http://en.cnki.com.cn/Article_en/CJFDTOTAL-DLLG200802024.htm">http://en.cnki.com.cn/Article_en/CJFDTOTAL-DLLG200802024.htm</a>
208	ELMDOCK ELMPATIDOCK	12	1.3884	Relies solely on the 3D structure of the individual components and the overall rotational diffusion tensor of the complex	Subscription	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/prot.23053">https://onlinelibrary.wiley.com/doi/abs/10.1002/prot.23053</a>
209	BDT-AutoDock	3	0.7864	Using receptor flexibility during docking using a large library of ligands onto one or more receptors without defining one a priori ligand-binding site on them	Free	<a href="http://www.quimica.urv.cat/~pujadas/BDT/">http://www.quimica.urv.cat/~pujadas/BDT/</a>
210	Discovery Studio	0	0.0000	An interactive package with a broad variety of features for modelling and simulation	Subscription	<a href="https://www.bu.edu/tech/support/research/software-and-programming/software-and-applications/rcs-software-packages/discovery-studio/">https://www.bu.edu/tech/support/research/software-and-programming/software-and-applications/rcs-software-packages/discovery-studio/</a>
211	3dRNA-RFSP	0	0.0000	Constructs a statistical potential for 3D RNA structure evaluation by using an iterative method that circumvents the reference state problem	Free	<a href="http://biophy.hust.edu.cn/3dRNA-RFSP.html">http://biophy.hust.edu.cn/3dRNA-RFSP.html</a>