Lawrence Shapiro

List of Publications by Year in Descending Order

161 papers	16,731 citations	58 h-index	128 g-index
175 ext. papers	20,904 ext. citations	17.3 avg, IF	6.58 L-index

#	Paper	IF	Citations
161	Cryo-EM structure of the SARS-CoV-2 Omicron spike.. *Cell Reports*, **2022**, 110428	10.6	12
160	Affinity requirements for control of synaptic targeting and neuronal cell survival by heterophilic IgSF cell adhesion molecules.. *Cell Reports*, **2022**, 39, 110618	10.6	0
159	An antibody class with a common CDRH3 motif broadly neutralizes sarbecoviruses.. *Science Translational Medicine*, **2022**, 14, eabn6859	17.5	3
158	Functional properties of the spike glycoprotein of the emerging SARS-CoV-2 variant B.1.1.529. *Cell Reports*, **2022**, 110924	10.6	1
157	Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. *Cell Reports*, **2021**, 37, 109922	10.6	1
156	Extended antibody-framework-to-antigen distance observed exclusively with broad HIV-1-neutralizing antibodies recognizing glycan-dense surfaces. *Nature Communications*, **2021**, 12, 6470	17.4	1
155	A monoclonal antibody that neutralizes SARS-CoV-2 variants, SARS-CoV, and other sarbecoviruses. *Emerging Microbes and Infections*, **2021**, 1-34	18.9	11
154	Neutralizing antibody 5-7 defines a distinct site of vulnerability in SARS-CoV-2 spike N-terminal domain. *Cell Reports*, **2021**, 37, 109928	10.6	21
153	A monoclonal antibody that neutralizes SARS-CoV-2 variants, SARS-CoV, and other sarbecoviruses **2021**,		2
152	Synaptogenic activity of the axon guidance molecule Robo2 underlies hippocampal circuit function. *Cell Reports*, **2021**, 37, 109828	10.6	1
151	Contributions of single-particle cryoelectron microscopy toward fighting COVID-19. *Trends in Biochemical Sciences*, **2021**,	10.3	1
150	Increased Resistance of SARS-CoV-2 Variant P.1 to Antibody Neutralization **2021**,		79
149	Antibody resistance of SARS-CoV-2 variants B.1.351 and B.1.1.7. *Nature*, **2021**, 593, 130-135	50.4	997
148	Modular basis for potent SARS-CoV-2 neutralization by a prevalent VH1-2-derived antibody class. *Cell Reports*, **2021**, 35, 108950	10.6	38
147	Increased resistance of SARS-CoV-2 variant P.1 to antibody neutralization. *Cell Host and Microbe*, **2021**, 29, 747-751.e4	23.4	277
146	Potent SARS-CoV-2 neutralizing antibodies directed against spike N-terminal domain target a single supersite. *Cell Host and Microbe*, **2021**, 29, 819-833.e7	23.4	215
145	Dimerization of Cadherin-11 involves multi-site coupled unfolding and strand swapping. *Structure*, **2021**, 29, 1105-1115.e6	5.2	0

144	Structural basis for accommodation of emerging B.1.351 and B.1.1.7 variants by two potent SARS-CoV-2 neutralizing antibodies. *Structure*, **2021**, 29, 655-663.e4	5.2	36
143	Visualizing cadherin intermembrane adhesion assemblies using cryo-electron tomography. *Microscopy and Microanalysis*, **2021**, 27, 284-287	0.5	
142	CIB2 and CIB3 are auxiliary subunits of the mechanotransduction channel of hair cells. *Neuron*, **2021** , 109, 2131-2149.e15	13.9	6
141	Sorting of cadherin-catenin-associated proteins into individual clusters. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
140	Antibody Resistance of SARS-CoV-2 Variants B.1.351 and B.1.1.7 **2021**,		154
139	Paired heavy and light chain signatures contribute to potent SARS-CoV-2 neutralization in public antibody responses **2021**,		14
138	Increased Resistance of SARS-CoV-2 Variants B.1.351 and B.1.1.7 to Antibody Neutralization **2021**,		32
137	Structural Basis for Accommodation of Emerging B.1.351 and B.1.1.7 Variants by Two Potent SARS-CoV-2 Neutralizing Antibodies **2021**,		8
136	Vaccination induces maturation in a mouse model of diverse unmutated VRC01-class precursors to HIV-neutralizing antibodies with >50% breadth. *Immunity*, **2021**, 54, 324-339.e8	32.3	15
135	Antibody screening at reduced pH enables preferential selection of potently neutralizing antibodies targeting SARS-CoV-2.. *AICHE Journal*, **2021**, 67, e17440	3.6	2
134	Paired heavy- and light-chain signatures contribute to potent SARS-CoV-2 neutralization in public antibody responses. *Cell Reports*, **2021**, 37, 109771	10.6	20
133	The covalent SNAP tag for protein display quantification and low-pH protein engineering. *Journal of Biotechnology*, **2020**, 320, 50-56	3.7	3
132	VRC34-Antibody Lineage Development Reveals How a Required Rare Mutation Shapes the Maturation of a Broad HIV-Neutralizing Lineage. *Cell Host and Microbe*, **2020**, 27, 531-543.e6	23.4	8
131	Sensing Actin Dynamics through Adherens Junctions. *Cell Reports*, **2020**, 30, 2820-2833.e3	10.6	13
130	Family-wide Structural and Biophysical Analysis of Binding Interactions among Non-clustered Protocadherins. *Cell Reports*, **2020**, 30, 2655-2671.e7	10.6	14
129	Adhesion Protein Structure, Molecular Affinities, and Principles of Cell-Cell Recognition. *Cell*, **2020**, 181, 520-535	56.2	41
128	Structure of Super-Potent Antibody CAP256-VRC26.25 in Complex with HIV-1 Envelope Reveals a Combined Mode of Trimer-Apex Recognition. *Cell Reports*, **2020**, 31, 107488	10.6	22
127	Lipocalin-2 is an anorexigenic signal in primates. *ELife*, **2020**, 9,	8.9	9

126	Ubiquitin-dependent regulation of a conserved DMRT protein controls sexually dimorphic synaptic connectivity and behavior. *ELife*, **2020**, 9,	8.9	4
125	Cryo-EM Structures Delineate a pH-Dependent Switch that Mediates Endosomal Positioning of SARS-CoV-2 Spike Receptor-Binding Domains **2020**,		28
124	Extensive dissemination and intraclonal maturation of HIV Env vaccine-induced B cell responses. *Journal of Experimental Medicine*, **2020**, 217,	16.6	11
123	Structure-Based Design with Tag-Based Purification and In-Process Biotinylation Enable Streamlined Development of SARS-CoV-2 Spike Molecular Probes. *Cell Reports*, **2020**, 33, 108322	10.6	35
122	DIP/Dpr interactions and the evolutionary design of specificity in protein families. *Nature Communications*, **2020**, 11, 2125	17.4	7
121	Cryo-EM Structures of SARS-CoV-2 Spike without and with ACE2 Reveal a pH-Dependent Switch to Mediate Endosomal Positioning of Receptor-Binding Domains. *Cell Host and Microbe*, **2020**, 28, 867-879.e5	23.4	168
120	Antibody Isotype Switching as a Mechanism to Counter HIV Neutralization Escape. *Cell Reports*, **2020**, 33, 108430	10.6	4
119	Potent neutralizing antibodies against multiple epitopes on SARS-CoV-2 spike. *Nature*, **2020**, 584, 450-456	50.4	848
118	Immune Monitoring Reveals Fusion Peptide Priming to Imprint Cross-Clade HIV-Neutralizing Responses with a Characteristic Early B Cell Signature. *Cell Reports*, **2020**, 32, 107981	10.6	7
117	Identification and Structure of a Multidonor Class of Head-Directed Influenza-Neutralizing Antibodies Reveal the Mechanism for Its Recurrent Elicitation. *Cell Reports*, **2020**, 32, 108088	10.6	4
116	VSV-Displayed HIV-1 Envelope Identifies Broadly Neutralizing Antibodies Class-Switched to IgG and IgA. *Cell Host and Microbe*, **2020**, 27, 963-975.e5	23.4	16
115	TOPAZ: A Positive-Unlabeled Convolutional Neural Network CryoEM Particle Picker that can Pick Any Size and Shape Particle. *Microscopy and Microanalysis*, **2019**, 25, 986-987	0.5	6
114	Isolation and Structure of an Antibody that Fully Neutralizes Isolate SIVmac239 Reveals Functional Similarity of SIV and HIV Glycan Shields. *Immunity*, **2019**, 51, 724-734.e4	32.3	5
113	Elasticity of individual protocadherin 15 molecules implicates tip links as the gating springs for hearing. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11048-11056	11.5	36
112	Consistent elicitation of cross-clade HIV-neutralizing responses achieved in guinea pigs after fusion peptide priming by repetitive envelope trimer boosting. *PLoS ONE*, **2019**, 14, e0215163	3.7	25
111	Prolonged evolution of the memory B cell response induced by a replicating adenovirus-influenza H5 vaccine. *Science Immunology*, **2019**, 4,	28	30
110	Visualization of clustered protocadherin neuronal self-recognition complexes. *Nature*, **2019**, 569, 280-283	50.4	46
109	-endocytosis elicited by nectins transfers cytoplasmic cargo, including infectious material, between cells. *Journal of Cell Science*, **2019**, 132,	5.3	15

108	Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. *Cell*, **2019**, 178, 567-584.e19	56.2	64
107	cAb-Rep: A Database of Curated Antibody Repertoires for Exploring Antibody Diversity and Predicting Antibody Prevalence. *Frontiers in Immunology*, **2019**, 10, 2365	8.4	31
106	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. *Nature Methods*, **2019**, 16, 1153-1160	21.6	172
105	Structural Survey of Broadly Neutralizing Antibodies Targeting the HIV-1 Env Trimer Delineates Epitope Categories and Characteristics of Recognition. *Structure*, **2019**, 27, 196-206.e6	5.2	48
104	Spatial and temporal organization of cadherin in punctate adherens junctions. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E4406-E4415	11.5	26
103	Surface-Matrix Screening Identifies Semi-specific Interactions that Improve Potency of a Near Pan-reactive HIV-1-Neutralizing Antibody. *Cell Reports*, **2018**, 22, 1798-1809	10.6	33
102	Pathogenic IgG4 autoantibodies from endemic pemphigus foliaceus recognize a desmoglein-1 conformational epitope. *Journal of Autoimmunity*, **2018**, 89, 171-185	15.5	12
101	A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. *Immunity*, **2018**, 48, 500-513.e6	32.3	51
100	Mechanotransduction by PCDH15 Relies on a Novel cis-Dimeric Architecture. *Neuron*, **2018**, 99, 480-492.e5	13.9	22
99	Epitope-based vaccine design yields fusion peptide-directed antibodies that neutralize diverse strains of HIV-1. *Nature Medicine*, **2018**, 24, 857-867	50.5	169
98	Homophilic and Heterophilic Interactions of Type II Cadherins Identify Specificity Groups Underlying Cell-Adhesive Behavior. *Cell Reports*, **2018**, 23, 1840-1852	10.6	30
97	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs **2018**, 10812, 245-247		12
96	Routine single particle CryoEM sample and grid characterization by tomography. *ELife*, **2018**, 7,	8.9	123
95	Neuron-Subtype-Specific Expression, Interaction Affinities, and Specificity Determinants of DIP/Dpr Cell Recognition Proteins. *Neuron*, **2018**, 100, 1385-1400.e6	13.9	34
94	Interactions between the Ig-Superfamily Proteins DIP- and Dpr6/10 Regulate Assembly of Neural Circuits. *Neuron*, **2018**, 100, 1369-1384.e6	13.9	37
93	V2-Directed Vaccine-like Antibodies from HIV-1 Infection Identify an Additional K169-Binding Light Chain Motif with Broad ADCC Activity. *Cell Reports*, **2018**, 25, 3123-3135.e6	10.6	17
92	Intrinsic DNA Shape Accounts for Affinity Differences between Hox-Cofactor Binding Sites. *Cell Reports*, **2018**, 24, 2221-2230	10.6	21
91	Antibodyomics: bioinformatics technologies for understanding B-cell immunity to HIV-1. *Immunological Reviews*, **2017**, 275, 108-128	11.3	26

90	Quantification of the Impact of the HIV-1-Glycan Shield on Antibody Elicitation. *Cell Reports*, **2017**, 19, 719-732	10.6	123
89	Mammalian -mannosylation of cadherins and plexins is independent of protein -mannosyltransferases 1 and 2. *Journal of Biological Chemistry*, **2017**, 292, 11586-11598	5.4	27
88	Free Energy Perturbation Calculation of Relative Binding Free Energy between Broadly Neutralizing Antibodies and the gp120 Glycoprotein of HIV-1. *Journal of Molecular Biology*, **2017**, 429, 930-947	6.5	47
87	Discovery of an O-mannosylation pathway selectively serving cadherins and protocadherins. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11163-11168	11.5	50
86	Protocadherin -dimer architecture and recognition unit diversity. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9829-E9837	11.5	33
85	Structural origins of clustered protocadherin-mediated neuronal barcoding. *Seminars in Cell and Developmental Biology*, **2017**, 69, 140-150	7.5	23
84	Gene-Specific Substitution Profiles Describe the Types and Frequencies of Amino Acid Changes during Antibody Somatic Hypermutation. *Frontiers in Immunology*, **2017**, 8, 537	8.4	57
83	Structure of the STRA6 receptor for retinol uptake. *Science*, **2016**, 353,	33.3	73
82	Vaccine-Induced Antibodies that Neutralize Group 1 and Group 2 Influenza A Viruses. *Cell*, **2016**, 166, 609-623	56.2	215
81	Identification of a CD4-Binding-Site Antibody to HIV that Evolved Near-Pan Neutralization Breadth. *Immunity*, **2016**, 45, 1108-1121	32.3	224
80	Structural basis of adhesive binding by desmocollins and desmogleins. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7160-5	11.5	95
79	Structure and Function of Cadherin Extracellular Regions **2016**, 71-91		0
78	Structure of the polyisoprenyl-phosphate glycosyltransferase GtrB and insights into the mechanism of catalysis. *Nature Communications*, **2016**, 7, 10175	17.4	23
77	Structures of aminoarabinose transferase ArnT suggest a molecular basis for lipid A glycosylation. *Science*, **2016**, 351, 608-12	33.3	70
76	Maturation Pathway from Germline to Broad HIV-1 Neutralizer of a CD4-Mimic Antibody. *Cell*, **2016**, 165, 449-63	56.2	209
75	New Member of the V1V2-Directed CAP256-VRC26 Lineage That Shows Increased Breadth and Exceptional Potency. *Journal of Virology*, **2016**, 90, 76-91	6.6	151
74	Molecular basis of sidekick-mediated cell-cell adhesion and specificity. *ELife*, **2016**, 5,	8.9	24
73	Protocadherin structural diversity and functional implications. *ELife*, **2016**, 5,	8.9	37

72	SONAR: A High-Throughput Pipeline for Inferring Antibody Ontogenies from Longitudinal Sequencing of B Cell Transcripts. *Frontiers in Immunology*, **2016**, 7, 372	8.4	39
71	Effects of Darwinian Selection and Mutability on Rate of Broadly Neutralizing Antibody Evolution during HIV-1 Infection. *PLoS Computational Biology*, **2016**, 12, e1004940	5	27
70	Targeted Isolation of Antibodies Directed against Major Sites of SIV Env Vulnerability. *PLoS Pathogens*, **2016**, 12, e1005537	7.6	39
69	Structural Basis of Diverse Homophilic Recognition by Clustered □and □Protocadherins. *Neuron*, **2016**, 90, 709-23	13.9	58
68	Induction of HIV Neutralizing Antibody Lineages in Mice with Diverse Precursor Repertoires. *Cell*, **2016**, 166, 1471-1484.e18	56.2	132
67	Quality and quantity of TFH cells are critical for broad antibody development in SHIVAD8 infection. *Science Translational Medicine*, **2015**, 7, 298ra120	17.5	89
66	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. *Nature Structural and Molecular Biology*, **2015**, 22, 522-31	17.6	254
65	Analysis of immunoglobulin transcripts and hypermutation following SHIV(AD8) infection and protein-plus-adjuvant immunization. *Nature Communications*, **2015**, 6, 6565	17.4	59
64	Maturation and Diversity of the VRC01-Antibody Lineage over 15 Years of Chronic HIV-1 Infection. *Cell*, **2015**, 161, 470-485	56.2	177
63	□Catenin-mediated cadherin clustering couples cadherin and actin dynamics. *Journal of Cell Biology* , **2015**, 210, 647-61	7.3	34
62	Molecular logic of neuronal self-recognition through protocadherin domain interactions. *Cell*, **2015**, 163, 629-42	56.2	94
61	Structural Repertoire of HIV-1-Neutralizing Antibodies Targeting the CD4 Supersite in 14 Donors. *Cell*, **2015**, 161, 1280-92	56.2	219
60	E-cadherin junction formation involves an active kinetic nucleation process. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10932-7	11.5	57
59	Structural basis for phosphatidylinositol-phosphate biosynthesis. *Nature Communications*, **2015**, 6, 8505	17.4	25
58	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. *Nature*, **2014**, 509, 55-62	50.4	537
57	Strain Specific Anti-HIV Antibody Evolution during Acute Infection and Viral Escape. *AIDS Research and Human Retroviruses*, **2014**, 30, A210-A210	1.6	1
56	Enhanced potency of a broadly neutralizing HIV-1 antibody in vitro improves protection against lentiviral infection in vivo. *Journal of Virology*, **2014**, 88, 12669-82	6.6	198
55	Structural and energetic determinants of adhesive binding specificity in type I cadherins. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4175-84	11.5	53

54	Single-cell identity generated by combinatorial homophilic interactions between □□, and □ protocadherins. *Cell*, **2014**, 158, 1045-1059	56.2	131
53	Structural basis for catalysis in a CDP-alcohol phosphotransferase. *Nature Communications*, **2014**, 5, 4068	7.4	27
52	Cadherin-11 in poor prognosis malignancies and rheumatoid arthritis: common target, common therapies. *Oncotarget*, **2014**, 5, 1458-74	3.3	42
51	Multidonor analysis reveals structural elements, genetic determinants, and maturation pathway for HIV-1 neutralization by VRC01-class antibodies. *Immunity*, **2013**, 39, 245-58	32.3	254
50	Co-evolution of a broadly neutralizing HIV-1 antibody and founder virus. *Nature*, **2013**, 496, 469-76	50.4	759
49	Delineating antibody recognition in polyclonal sera from patterns of HIV-1 isolate neutralization. *Science*, **2013**, 340, 751-6	33.3	172
48	De novo identification of VRC01 class HIV-1-neutralizing antibodies by next-generation sequencing of B-cell transcripts. *Proceedings of the National Academy of Sciences of the United States of America* , **2013**, 110, E4088-97	11.5	80
47	Thinking outside the cell: how cadherins drive adhesion. *Trends in Cell Biology*, **2012**, 22, 299-310	18.3	231
46	Complementary chimeric isoforms reveal Dscam1 binding specificity in vivo. *Neuron*, **2012**, 74, 261-8	13.9	21
45	Somatic Populations of PGT135-137 HIV-1-Neutralizing Antibodies Identified by 454 Pyrosequencing and Bioinformatics. *Frontiers in Microbiology*, **2012**, 3, 315	5.7	53
44	Structures from anomalous diffraction of native biological macromolecules. *Science*, **2012**, 336, 1033-7	33.3	142
43	Crystal structures of Drosophila N-cadherin ectodomain regions reveal a widely used class of Ca□+-free interdomain linkers. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E127-34	11.5	34
42	Nectin ectodomain structures reveal a canonical adhesive interface. *Nature Structural and Molecular Biology*, **2012**, 19, 906-15	17.6	83
41	Focused evolution of HIV-1 neutralizing antibodies revealed by structures and deep sequencing. *Science*, **2011**, 333, 1593-602	33.3	688
40	Structure and binding mechanism of vascular endothelial cadherin: a divergent classical cadherin. *Journal of Molecular Biology*, **2011**, 408, 57-73	6.5	58
39	Crystal structure of the ligand binding domain of netrin G2. *Journal of Molecular Biology*, **2011**, 414, 723-34	6.5	19
38	Molecular design principles underlying □-strand swapping in the adhesive dimerization of cadherins. *Nature Structural and Molecular Biology*, **2011**, 18, 693-700	17.6	80
37	The extracellular architecture of adherens junctions revealed by crystal structures of type I cadherins. *Structure*, **2011**, 19, 244-56	5.2	273

36	Transforming binding affinities from three dimensions to two with application to cadherin clustering. *Nature*, **2011**, 475, 510-3	50.4	174
35	T-cadherin structures reveal a novel adhesive binding mechanism. *Nature Structural and Molecular Biology*, **2010**, 17, 339-47	17.6	105
34	Two-step adhesive binding by classical cadherins. *Nature Structural and Molecular Biology*, **2010**, 17, 348-57	17.6	152
33	Cooperativity between trans and cis interactions in cadherin-mediated junction formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 17592-7	11.5	99
32	Structural basis for broad and potent neutralization of HIV-1 by antibody VRC01. *Science*, **2010**, 329, 811-7	33.3	871
31	Structure and biochemistry of cadherins and catenins. *Cold Spring Harbor Perspectives in Biology*, **2009**, 1, a003053	10.2	307
30	T-cadherin, an Adiponectin Receptor in the Cardiovascular System. *FASEB Journal*, **2009**, 23, 506.8	0.9	2
29	Dynamic properties of a type II cadherin adhesive domain: implications for the mechanism of strand-swapping of classical cadherins. *Structure*, **2008**, 16, 1195-205	5.2	44
28	Sequence and structural determinants of strand swapping in cadherin domains: do all cadherins bind through the same adhesive interface?. *Journal of Molecular Biology*, **2008**, 378, 954-68	6.5	48
27	Adhesion molecules in the nervous system: structural insights into function and diversity. *Annual Review of Neuroscience*, **2007**, 30, 451-74	17	157
26	Self-recognition at the atomic level: understanding the astonishing molecular diversity of homophilic Dscams. *Neuron*, **2007**, 56, 10-3	13.9	6
25	Adipose-Selective Overexpression of CGI-58 Does Not Alter Lipolysis or Protect Against Diet-Induced Obesity. *FASEB Journal*, **2007**, 21, A704	0.9	
24	Type II cadherin ectodomain structures: implications for classical cadherin specificity. *Cell*, **2006**, 124, 1255-68	56.2	225
23	ADAM and Eph: how Ephrin-signaling cells become detached. *Cell*, **2005**, 123, 185-7	56.2	16
22	Identification of a transiently exposed VE-cadherin epitope that allows for specific targeting of an antibody to the tumor neovasculature. *Blood*, **2005**, 105, 4337-44	2.2	87
21	Crystal structures of the tryptophan repressor binding protein WrbA and complexes with flavin mononucleotide. *Protein Science*, **2005**, 14, 3004-12	6.3	21
20	Specificity of cell-cell adhesion by classical cadherins: Critical role for low-affinity dimerization through beta-strand swapping. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 8531-6	11.5	119
19	Laura Mgrdichian National Synchrotron Light Source, Brookhaven National Laboratory. *Synchrotron Radiation News*, **2004**, 17, 13-29	0.6	

18	Cadherin-mediated cell-cell adhesion: sticking together as a family. *Current Opinion in Structural Biology*, **2003**, 13, 690-8	8.1	174
17	Practical aspects of membrane protein crystallography: From overexpression to crystallization. *Synchrotron Radiation News*, **2002**, 15, 17-18	0.6	1
16	C-cadherin ectodomain structure and implications for cell adhesion mechanisms. *Science*, **2002**, 296, 1308-13	33.3	546
15	Functional cis-heterodimers of N- and R-cadherins. *Journal of Cell Biology*, **2000**, 148, 579-90	7.3	163
14	Molecular modification of N-cadherin in response to synaptic activity. *Neuron*, **2000**, 25, 93-107	13.9	282
13	The adhesive binding site of cadherins revisited. *Biophysical Chemistry*, **1999**, 82, 157-63	3.5	34
12	The diversity of cadherins and implications for a synaptic adhesive code in the CNS. *Neuron*, **1999**, 23, 427-30	13.9	191
11	Structure-function analysis of cell adhesion by neural (N-) cadherin. *Neuron*, **1998**, 20, 1153-63	13.9	283
10	Crystal structure of the extracellular domain from P0, the major structural protein of peripheral nerve myelin. *Neuron*, **1996**, 17, 435-49	13.9	360
9	Structural basis of cell-cell adhesion by cadherins. *Nature*, **1995**, 374, 327-37	50.4	1017
8	DNA and RNA: NMR studies of conformations and dynamics in solution. *Quarterly Reviews of Biophysics*, **1987**, 20, 35-112	7	161
7	Sequence-dependent conformations of DNA duplexes: the TATA segment of the d(G-G-T-A-T-A-C-C) duplex in aqueous solution. *Biopolymers*, **1986**, 25, 693-706	2.2	18
6	Sequence-dependent recognition of DNA duplexes: netropsin complexation to the TATA site of the d(G-G-T-A-T-A-C-C) duplex in aqueous solution. *Biopolymers*, **1986**, 25, 707-27	2.2	30
5	Isolation and comparative analysis of antibodies that broadly neutralize sarbecoviruses		5
4	Structural basis for antibody resistance to SARS-CoV-2 omicron variant		3
3	Paired Heavy and Light Chain Signatures Contribute to Potent SARS-CoV-2 Neutralization in Public Antibody Responses. *SSRN Electronic Journal*,	1	1
2	Potent SARS-CoV-2 Neutralizing Antibodies Directed Against Spike N-Terminal Domain Target a Single Supersite		15
1	Modular basis for potent SARS-CoV-2 neutralization by a prevalent VH1-2-derived antibody class		4