Lawrence Shapiro

List of Publications by Year
in descending order

152 papers	23,533 citations	16451 64 h-index	9861 141 g-index
175 all docs	175 docs citations	175 times ranked	22623 citing authors

#	Article	IF	Citations
1	Antibody resistance of SARS-CoV-2 variants B.1.351 and B.1.1.7. Nature, 2021, 593, 130-135.	27.8	1,904
2	Potent neutralizing antibodies against multiple epitopes on SARS-CoV-2 spike. Nature, 2020, 584, 450-456.	27.8	1,337
3	Structural basis of cell-cell adhesion by cadherins. Nature, 1995, 374, 327-337.	27.8	1,124
4	Structural Basis for Broad and Potent Neutralization of HIV-1 by Antibody VRC01. Science, 2010, 329, 811-817.	12.6	1,050
5	Co-evolution of a broadly neutralizing HIV-1 antibody and founder virus. Nature, 2013, 496, 469-476.	27.8	961
6	Focused Evolution of HIV-1 Neutralizing Antibodies Revealed by Structures and Deep Sequencing. Science, 2011, 333, 1593-1602.	12.6	788
7	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. Nature Methods, 2019, 16, 1153-1160.	19.0	693
8	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. Nature, 2014, 509, 55-62.	27.8	681
9	C-Cadherin Ectodomain Structure and Implications for Cell Adhesion Mechanisms. Science, 2002, 296, 1308-1313.	12.6	616
10	Increased resistance of SARS-CoV-2 variant P.1 to antibody neutralization. Cell Host and Microbe, 2021, 29, 747-751.e4.	11.0	504
11	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.	11.0	444
12	Crystal Structure of the Extracellular Domain from P0, the Major Structural Protein of Peripheral Nerve Myelin. Neuron, 1996, 17, 435-449.	8.1	404
13	Structure and Biochemistry of Cadherins and Catenins. Cold Spring Harbor Perspectives in Biology, 2009, 1, a003053-a003053.	5.5	373
14	The Extracellular Architecture of Adherens Junctions Revealed by Crystal Structures of Type I Cadherins. Structure, 2011, 19, 244-256.	3.3	347
15	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. Nature Structural and Molecular Biology, 2015, 22, 522-531.	8.2	333
16	Multidonor Analysis Reveals Structural Elements, Genetic Determinants, and Maturation Pathway for HIV-1 Neutralization by VRC01-Class Antibodies. Immunity, 2013, 39, 245-258.	14.3	332
17	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.	11.0	316
18	Structure-Function Analysis of Cell Adhesion by Neural (N-) Cadherin. Neuron, 1998, 20, 1153-1163.	8.1	312

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19	Structural Repertoire of HIV-1-Neutralizing Antibodies Targeting the CD4 Supersite in 14 Donors. Cell, 2015, 161, 1280-1292.	28.9	305
20	Maturation Pathway from Germline to Broad HIV-1 Neutralizer of a CD4-Mimic Antibody. Cell, 2016, 165, 449-463.	28.9	305
21	Identification of a CD4-Binding-Site Antibody to HIV that Evolved Near-Pan Neutralization Breadth. Immunity, 2016, 45, 1108-1121.	14.3	304
22	Molecular Modification of N-Cadherin in Response to Synaptic Activity. Neuron, 2000, 25, 93-107.	8.1	301
23	Thinking outside the cell: how cadherins drive adhesion. Trends in Cell Biology, 2012, 22, 299-310.	7.9	296
24	Vaccine-Induced Antibodies that Neutralize Group 1 and Group 2 Influenza A Viruses. Cell, 2016, 166, 609-623.	28.9	270
25	Epitope-based vaccine design yields fusion peptide-directed antibodies that neutralize diverse strains of HIV-1. Nature Medicine, 2018, 24, 857-867.	30.7	256
26	Type II Cadherin Ectodomain Structures: Implications for Classical Cadherin Specificity. Cell, 2006, 124, 1255-1268.	28.9	252
27	Enhanced Potency of a Broadly Neutralizing HIV-1 Antibody <i>In Vitro</i> Improves Protection against Lentiviral Infection <i>In Vivo</i>. Journal of Virology, 2014, 88, 12669-12682.	3.4	248
28	Maturation and Diversity of the VRC01-Antibody Lineage over 15 Years of Chronic HIV-1 Infection. Cell, 2015, 161, 470-485.	28.9	226
29	Routine single particle CryoEM sample and grid characterization by tomography. ELife, 2018, 7, .	6.0	216
30	Delineating Antibody Recognition in Polyclonal Sera from Patterns of HIV-1 Isolate Neutralization. Science, 2013, 340, 751-756.	12.6	213
31	The Diversity of Cadherins and Implications for a Synaptic Adhesive Code in the CNS. Neuron, 1999, 23, 427-430.	8.1	206
32	New Member of the V1V2-Directed CAP256-VRC26 Lineage That Shows Increased Breadth and Exceptional Potency. Journal of Virology, 2016, 90, 76-91.	3.4	205
33	Transforming binding affinities from three dimensions to two with application to cadherin clustering. Nature, 2011, 475, 510-513.	27.8	204
34	Induction of HIV Neutralizing Antibody Lineages in Mice with Diverse Precursor Repertoires. Cell, 2016, 166, 1471-1484.e18.	28.9	198
35	Cadherin-mediated cellâ€“cell adhesion: sticking together as a family. Current Opinion in Structural Biology, 2003, 13, 690-698.	5.7	195
36	Single-Cell Identity Generated by Combinatorial Homophilic Interactions between Î±, Î², and Î³ Protocadherins. Cell, 2014, 158, 1045-1059.	28.9	190

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37	Two-step adhesive binding by classical cadherins. Nature Structural and Molecular Biology, 2010, 17, 348-357.	8.2	184
38	Functional Cis-Heterodimers of N- and R-Cadherins. Journal of Cell Biology, 2000, 148, 579-590.	5.2	178
39	DNA and RNA: NMR studies of conformations and dynamics in solution. Quarterly Reviews of Biophysics, 1987, 20, 35-112.	5.7	177
40	Adhesion Molecules in the Nervous System: Structural Insights into Function and Diversity. Annual Review of Neuroscience, 2007, 30, 451-474.	10.7	175
41	Quantification of the Impact of the HIV-1-Glycan Shield on Antibody Elicitation. Cell Reports, 2017, 19, 719-732.	6.4	160
42	Structures from Anomalous Diffraction of Native Biological Macromolecules. Science, 2012, 336, 1033-1037.	12.6	154
43	Molecular Logic of Neuronal Self-Recognition through Protocadherin Domain Interactions. Cell, 2015, 163, 629-642.	28.9	141
44	Structural basis of adhesive binding by desmocollins and desmogleins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7160-7165.	7.1	137
45	Cooperativity between <i>trans</i> and <i>cis</i> interactions in cadherin-mediated junction formation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17592-17597.	7.1	128
46	Specificity of cellâ€“cell adhesion by classical cadherins: Critical role for low-affinity dimerization through Î²-strand swapping. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8531-8536.	7.1	126
47	Quality and quantity of T _{FH} cells are critical for broad antibody development in SHIV _{AD8} infection. Science Translational Medicine, 2015, 7, 298ra120.	12.4	119
48	T-cadherin structures reveal a novel adhesive binding mechanism. Nature Structural and Molecular Biology, 2010, 17, 339-347.	8.2	118
49	Adhesion Protein Structure, Molecular Affinities, and Principles of Cell-Cell Recognition. Cell, 2020, 181, 520-535.	28.9	108
50	Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. Cell, 2019, 178, 567-584.e19.	28.9	106
51	De novo identification of VRC01 class HIV-1â€“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.	7.1	105
52	Nectin ectodomain structures reveal a canonical adhesive interface. Nature Structural and Molecular Biology, 2012, 19, 906-915.	8.2	104
53	Structure of the STRA6 receptor for retinol uptake. Science, 2016, 353, .	12.6	103
54	Molecular design principles underlying Î²-strand swapping in the adhesive dimerization of cadherins. Nature Structural and Molecular Biology, 2011, 18, 693-700.	8.2	101

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55	Structures of aminoarabinose transferase ArnT suggest a molecular basis for lipid A glycosylation. Science, 2016, 351, 608-612.	12.6	94
56	Identification of a transiently exposed VE-cadherin epitope that allows for specific targeting of an antibody to the tumor neovasculature. Blood, 2005, 105, 4337-4344.	1.4	91
57	Structural Basis of Diverse Homophilic Recognition by Clustered Î±- and Î²-Protocadherins. Neuron, 2016, 90, 709-723.	8.1	87
58	Visualization of clustered protocadherin neuronal self-recognition complexes. Nature, 2019, 569, 280-283.	27.8	86
59	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, 10932-10937.	7.1	84
60	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.	7.1	83
61	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.	4.2	82
62	Gene-Specific Substitution Profiles Describe the Types and Frequencies of Amino Acid Changes during Antibody Somatic Hypermutation. Frontiers in Immunology, 2017, 8, 537.	4.8	82
63	Cryo-EM structure of the SARS-CoV-2 Omicron spike. Cell Reports, 2022, 38, 110428.	6.4	82
64	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.	7.1	78
65	Analysis of immunoglobulin transcripts and hypermutation following SHIVAD8 infection and protein-plus-adjuvant immunization. Nature Communications, 2015, 6, 6565.	12.8	77
66	Structure and Binding Mechanism of Vascular Endothelial Cadherin: A Divergent Classical Cadherin. Journal of Molecular Biology, 2011, 408, 57-73.	4.2	76
67	Somatic populations of PGT135â€“137 HIV-1-neutralizing antibodies identified by 454 pyrosequencing and bioinformatic. Frontiers in Microbiology, 2012, 3, 315.	3.5	70
68	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.	3.3	69
69	SONAR: A High-Throughput Pipeline for Inferring Antibody Ontogenies from Longitudinal Sequencing of B Cell Transcripts. Frontiers in Immunology, 2016, 7, 372.	4.8	67
70	cAb-Rep: A Database of Curated Antibody Repertoires for Exploring Antibody Diversity and Predicting Antibody Prevalence. Frontiers in Immunology, 2019, 10, 2365.	4.8	67
71	A Neutralizing Antibody Recognizing Primarily N-Linked Glycan Targets the Silent Face of the HIV Envelope. Immunity, 2018, 48, 500-513.e6.	14.3	66
72	Neuron-Subtype-Specific Expression, Interaction Affinities, and Specificity Determinants of DIP/Dpr Cell Recognition Proteins. Neuron, 2018, 100, 1385-1400.e6.	8.1	65

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73	Interactions between the Ig-Superfamily Proteins DIP-Î± and Dpr6/10 Regulate Assembly of Neural Circuits. Neuron, 2018, 100, 1369-1384.e6.	8.1	64
74	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.	6.4	59
75	Dynamic Properties of a Type II Cadherin Adhesive Domain: Implications for the Mechanism of Strand-Swapping of Classical Cadherins. Structure, 2008, 16, 1195-1205.	3.3	55
76	Protocadherin <i>cis</i> -dimer architecture and recognition unit diversity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9829-E9837.	7.1	55
77	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.	7.1	55
78	Homophilic and Heterophilic Interactions of Type II Cadherins Identify Specificity Groups Underlying Cell-Adhesive Behavior. Cell Reports, 2018, 23, 1840-1852.	6.4	54
79	Modular basis for potent SARS-CoV-2 neutralization by a prevalent VH1-2-derived antibody class. Cell Reports, 2021, 35, 108950.	6.4	54
80	Î³-Protocadherin structural diversity and functional implications. ELife, 2016, 5, .	6.0	54
81	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.	6.4	53
82	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, 954-968.	4.2	52
83	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.	6.4	52
84	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.	3.3	52
85	Cadherin-11 in poor prognosis malignancies and rheumatoid arthritis: common target, common therapies. Oncotarget, 2014, 5, 1458-1474.	1.8	52
86	Neutralizing antibody 5-7 defines a distinct site of vulnerability in SARS-CoV-2 spike N-terminal domain. Cell Reports, 2021, 37, 109928.	6.4	52
87	Targeted Isolation of Antibodies Directed against Major Sites of SIV Env Vulnerability. PLoS Pathogens, 2016, 12, e1005537.	4.7	51
88	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.	7.1	46
89	Structural basis for phosphatidylinositol-phosphate biosynthesis. Nature Communications, 2015, 6, 8505.	12.8	43
90	Mechanotransduction by PCDH15 Relies on a Novel cis-Dimeric Architecture. Neuron, 2018, 99, 480-492.e5.	8.1	43

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91	Structural basis for catalysis in a CDP-alcohol phosphotransferase. Nature Communications, 2014, 5, 4068.	12.8	42
92	Î±-Cateninâ€“mediated cadherin clustering couples cadherin and actin dynamics. Journal of Cell Biology, 2015, 210, 647-661.	5.2	42
93	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.	2.5	41
94	Crystal structures of <i>Drosophila</i> N-cadherin ectodomain regions reveal a widely used class of Ca ²⁺ -free interdomain linkers. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E127-34.	7.1	40
95	Prolonged evolution of the memory B cell response induced by a replicating adenovirus-influenza H5 vaccine. Science Immunology, 2019, 4, .	11.9	40
96	Mammalian O-mannosylation of cadherins and plexins is independent of protein O-mannosyltransferases 1 and 2. Journal of Biological Chemistry, 2017, 292, 11586-11598.	3.4	39
97	Paired heavy- and light-chain signatures contribute to potent SARS-CoV-2 neutralization in public antibody responses. Cell Reports, 2021, 37, 109771.	6.4	38
98	The adhesive binding site of cadherins revisited. Biophysical Chemistry, 1999, 82, 157-163.	2.8	36
99	Structural origins of clustered protocadherin-mediated neuronal barcoding. Seminars in Cell and Developmental Biology, 2017, 69, 140-150.	5.0	36
100	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.	14.3	36
101	Molecular basis of sidekick-mediated cell-cell adhesion and specificity. ELife, 2016, 5, .	6.0	36
102	Effects of Darwinian Selection and Mutability on Rate of Broadly Neutralizing Antibody Evolution during HIV-1 Infection. PLoS Computational Biology, 2016, 12, e1004940.	3.2	35
103	Family-wide Structural and Biophysical Analysis of Binding Interactions among Non-clustered Î´-Protocadherins. Cell Reports, 2020, 30, 2655-2671.e7.	6.4	35
104	CIB2 and CIB3 are auxiliary subunits of the mechanotransduction channel of hair cells. Neuron, 2021, 109, 2131-2149.e15.	8.1	35
105	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, 707-727.	2.4	34
106	Structure of the polyisoprenyl-phosphate glycosyltransferase GtrB and insights into the mechanism of catalysis. Nature Communications, 2016, 7, 10175.	12.8	33
107	Complementary Chimeric Isoforms Reveal Dscam1 Binding Specificity InÂVivo. Neuron, 2012, 74, 261-268.	8.1	32
108	Antibodyomics: bioinformatics technologies for understanding Bâ€cell immunity to <scp>HIV</scp>â€1. Immunological Reviews, 2017, 275, 108-128.	6.0	32

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109	Intrinsic DNA Shape Accounts for Affinity Differences between Hox-Cofactor Binding Sites. Cell Reports, 2018, 24, 2221-2230.	6.4	31
110	An antibody class with a common CDRH3 motif broadly neutralizes sarbecoviruses. Science Translational Medicine, 2022, 14, eabn6859.	12.4	31
111	Lipocalin-2 is an anorexigenic signal in primates. ELife, 2020, 9, .	6.0	27
112	DIP/Dpr interactions and the evolutionary design of specificity in protein families. Nature Communications, 2020, 11, 2125.	12.8	26
113	Trans-endocytosis elicited by nectins transfers cytoplasmic cargo including infectious material between cells. Journal of Cell Science, 2019, 132, .	2.0	25
114	A monoclonal antibody that neutralizes SARS-CoV-2 variants, SARS-CoV, and other sarbecoviruses. Emerging Microbes and Infections, 2022, 11, 147-157.	6.5	25
115	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.	2.4	24
116	Crystal structures of the tryptophan repressor binding protein WrbA and complexes with flavin mononucleotide. Protein Science, 2005, 14, 3004-3012.	7.6	23
117	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.	6.4	23
118	Extensive dissemination and intraclonal maturation of HIV Env vaccine-induced B cell responses. Journal of Experimental Medicine, 2020, 217, .	8.5	23
119	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.	11.0	23
120	VSV-Displayed HIV-1 Envelope Identifies Broadly Neutralizing Antibodies Class-Switched to IgG and IgA. Cell Host and Microbe, 2020, 27, 963-975.e5.	11.0	23
121	Sensing Actin Dynamics through Adherens Junctions. Cell Reports, 2020, 30, 2820-2833.e3.	6.4	22
122	Ubiquitin-dependent regulation of a conserved DMRT protein controls sexually dimorphic synaptic connectivity and behavior. ELife, 2020, 9, .	6.0	21
123	Functional properties of the spike glycoprotein of the emerging SARS-CoV-2 variant B.1.1.529. Cell Reports, 2022, 39, 110924.	6.4	20
124	Crystal Structure of the Ligand Binding Domain of Netrin G2. Journal of Molecular Biology, 2011, 414, 723-734.	4.2	19
125	Pathogenic IgG4 autoantibodies from endemic pemphigus foliaceus recognize a desmoglein-1 conformational epitope. Journal of Autoimmunity, 2018, 89, 171-185.	6.5	19
126	ADAM and Eph: How Ephrin-Signaling Cells Become Detached. Cell, 2005, 123, 185-187.	28.9	18

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127	Synaptogenic activity of the axon guidance molecule Robo2 underlies hippocampal circuit function. Cell Reports, 2021, 37, 109828.	6.4	18
128	How clustered protocadherin binding specificity is tuned for neuronal self-/nonself-recognition. ELife, 2022, 11, .	6.0	18
129	Antibody Isotype Switching as a Mechanism to Counter HIV Neutralization Escape. Cell Reports, 2020, 33, 108430.	6.4	16
130	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.	6.4	15
131	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.	0.4	14
132	Sorting of cadherinâ€"catenin-associated proteins into individual clusters. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
133	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.	14.3	13
134	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.	6.4	13
135	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. , 2018, 10812, 245-247.		12
136	Affinity requirements for control of synaptic targeting and neuronal cell survival by heterophilic IgSF cell adhesion molecules. Cell Reports, 2022, 39, 110618.	6.4	9
137	Self-Recognition at the Atomic Level: Understanding the Astonishing Molecular Diversity of Homophilic Dscams. Neuron, 2007, 56, 10-13.	8.1	8
138	Contributions of single-particle cryoelectron microscopy toward fighting COVID-19. Trends in Biochemical Sciences, 2022, 47, 117-123.	7.5	6
139	Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. Cell Reports, 2021, 37, 109922.	6.4	5
140	The covalent SNAP tag for protein display quantification and low-pH protein engineering. Journal of Biotechnology, 2020, 320, 50-56.	3.8	4
141	Antibody screening at reduced <scp>pH</scp> enables preferential selection of potently neutralizing antibodies targeting <scp>SARSâ€CoV</scp>â€2. AIChE Journal, 2021, 67, e17440.	3.6	4
142	Structural basis for llama nanobody recognition and neutralization of HIV-1 at the CD4-binding site. Structure, 2022, 30, 862-875.e4.	3.3	4
143	Dimerization of Cadherin-11 involves multi-site coupled unfolding and strand swapping. Structure, 2021, 29, 1105-1115.e6.	3.3	3
144	Extended antibody-framework-to-antigen distance observed exclusively with broad HIV-1-neutralizing antibodies recognizing glycan-dense surfaces. Nature Communications, 2021, 12, 6470.	12.8	3

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145	Practical aspects of membrane protein crystallography: From overexpression to crystallization. Synchrotron Radiation News, 2002, 15, 17-18.	0.8	2
146	Structure and Function of Cadherin Extracellular Regions. , 2016, , 71-91.		2
147	Tâ€cadherin, an Adiponectin Receptor in the Cardiovascular System. FASEB Journal, 2009, 23, 506.8.	0.5	2
148	Strain Specific Anti-HIV Antibody Evolution during Acute Infection and Viral Escape. AIDS Research and Human Retroviruses, 2014, 30, A210-A210.	1.1	1
149	Paired Heavy and Light Chain Signatures Contribute to Potent SARS-CoV-2 Neutralization in Public Antibody Responses. SSRN Electronic Journal, 0, , .	0.4	1
150	Laura Mgrdichian National Synchrotron Light Source, Brookhaven National Laboratory. Synchrotron Radiation News, 2004, 17, 13-29.	0.8	0
151	Visualizing cadherin intermembrane adhesion assemblies using cryo-electron tomography. Microscopy and Microanalysis, 2021, 27, 284-287.	0.4	0
152	Adiposeâ€Selective Overexpression of CGIâ€58 Does Not Alter Lipolysis or Protect Against Dietâ€Induced Obesity. FASEB Journal, 2007, 21, A704.	0.5	0