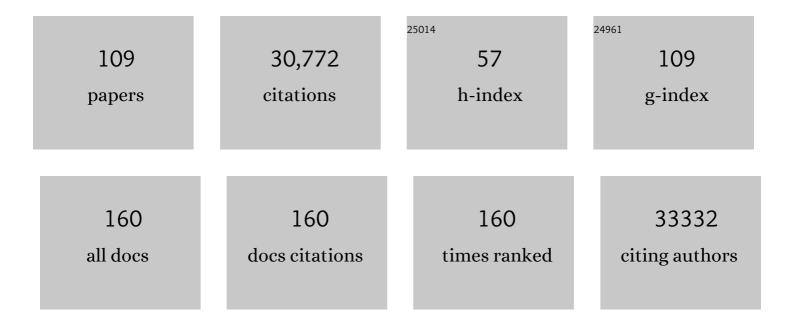
## David Veesler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structure, Function, and Antigenicity of the SARS-CoV-2 Spike Glycoprotein. Cell, 2020, 181, 281-292.e6.	13.5	6,979
2	Deep Mutational Scanning of SARS-CoV-2 Receptor Binding Domain Reveals Constraints on Folding and ACE2 Binding. Cell, 2020, 182, 1295-1310.e20.	13.5	1,726
3	Cross-neutralization of SARS-CoV-2 by a human monoclonal SARS-CoV antibody. Nature, 2020, 583, 290-295.	13.7	1,695
4	Mapping Neutralizing and Immunodominant Sites on the SARS-CoV-2 Spike Receptor-Binding Domain by Structure-Guided High-Resolution Serology. Cell, 2020, 183, 1024-1042.e21.	13.5	1,195
5	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. Nature, 2022, 602, 664-670.	13.7	917
6	N-terminal domain antigenic mapping reveals a site of vulnerability for SARS-CoV-2. Cell, 2021, 184, 2332-2347.e16.	13.5	784
7	Altered TMPRSS2 usage by SARS-CoV-2 Omicron impacts infectivity and fusogenicity. Nature, 2022, 603, 706-714.	13.7	756
8	Structural insights into coronavirus entry. Advances in Virus Research, 2019, 105, 93-116.	0.9	669
9	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. Nature, 2021, 593, 136-141.	13.7	648
10	Protocol and Reagents for Pseudotyping Lentiviral Particles with SARS-CoV-2 Spike Protein for Neutralization Assays. Viruses, 2020, 12, 513.	1.5	641
11	Unexpected Receptor Functional Mimicry Elucidates Activation of Coronavirus Fusion. Cell, 2019, 176, 1026-1039.e15.	13.5	558
12	Ultrapotent human antibodies protect against SARS-CoV-2 challenge via multiple mechanisms. Science, 2020, 370, 950-957.	6.0	504
13	Tectonic conformational changes of a coronavirus spike glycoprotein promote membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11157-11162.	3.3	501
14	Structural basis for human coronavirus attachment to sialic acid receptors. Nature Structural and Molecular Biology, 2019, 26, 481-489.	3.6	475
15	De novo design of picomolar SARS-CoV-2 miniprotein inhibitors. Science, 2020, 370, 426-431.	6.0	464
16	Cryo-electron microscopy structure of a coronavirus spike glycoprotein trimer. Nature, 2016, 531, 114-117.	13.7	453
17	Elicitation of Potent Neutralizing Antibody Responses by Designed Protein Nanoparticle Vaccines for SARS-CoV-2. Cell, 2020, 183, 1367-1382.e17.	13.5	420
18	Structural basis of SARS-CoV-2 Omicron immune evasion and receptor engagement. Science, 2022, 375, 864-868.	6.0	394

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19	SARS-CoV-2 immune evasion by the B.1.427/B.1.429 variant of concern. Science, 2021, 373, 648-654.	6.0	385
20	SARS-CoV-2 RBD antibodies that maximize breadth and resistance to escape. Nature, 2021, 597, 97-102.	13.7	385
21	Glycan shield and epitope masking of a coronavirus spike protein observed by cryo-electron microscopy. Nature Structural and Molecular Biology, 2016, 23, 899-905.	3.6	366
22	Spread of a SARS-CoV-2 variant through Europe in the summer of 2020. Nature, 2021, 595, 707-712.	13.7	363
23	Induction of Potent Neutralizing Antibody Responses by a Designed Protein Nanoparticle Vaccine for Respiratory Syncytial Virus. Cell, 2019, 176, 1420-1431.e17.	13.5	339
24	Tackling COVID-19 with neutralizing monoclonal antibodies. Cell, 2021, 184, 3086-3108.	13.5	309
25	Movies of Ice-Embedded Particles Enhance Resolution in Electron Cryo-Microscopy. Structure, 2012, 20, 1823-1828.	1.6	277
26	Broad betacoronavirus neutralization by a stem helix–specific human antibody. Science, 2021, 373, 1109-1116.	6.0	262
27	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. Nature, 2021, 594, 253-258.	13.7	253
28	A Common Evolutionary Origin for Tailed-Bacteriophage Functional Modules and Bacterial Machineries. Microbiology and Molecular Biology Reviews, 2011, 75, 423-433.	2.9	234
29	Molecular basis of immune evasion by the Delta and Kappa SARS-CoV-2 variants. Science, 2021, 374, 1621-1626.	6.0	232
30	Lectins enhance SARS-CoV-2 infection and influence neutralizing antibodies. Nature, 2021, 598, 342-347.	13.7	230
31	Broad sarbecovirus neutralization by a human monoclonal antibody. Nature, 2021, 597, 103-108.	13.7	220
32	Structures of MERS-CoV spike glycoprotein in complex with sialoside attachment receptors. Nature Structural and Molecular Biology, 2019, 26, 1151-1157.	3.6	218
33	An <i>Alphavirus</i> -derived replicon RNA vaccine induces SARS-CoV-2 neutralizing antibody and T cell responses in mice and nonhuman primates. Science Translational Medicine, 2020, 12, .	5.8	181
34	Quadrivalent influenza nanoparticle vaccines induce broad protection. Nature, 2021, 592, 623-628.	13.7	180
35	Local protein kinase A action proceeds through intact holoenzymes. Science, 2017, 356, 1288-1293.	6.0	165
36	SARS-CoV-2 breakthrough infections elicit potent, broad, and durable neutralizing antibody responses. Cell, 2022, 185, 872-880.e3.	13.5	165

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37	Studying 18â€MDa Virus Assemblies with Native Mass Spectrometry. Angewandte Chemie - International Edition, 2013, 52, 4020-4023.	7.2	164
38	2.8 Ã resolution reconstruction of the Thermoplasma acidophilum 20S proteasome using cryo-electron microscopy. ELife, 2015, 4, .	2.8	156
39	Structure-guided covalent stabilization of coronavirus spike glycoprotein trimers in the closed conformation. Nature Structural and Molecular Biology, 2020, 27, 942-949.	3.6	153
40	Structural basis for broad coronavirus neutralization. Nature Structural and Molecular Biology, 2021, 28, 478-486.	3.6	152
41	Shifting mutational constraints in the SARS-CoV-2 receptor-binding domain during viral evolution. Science, 2022, 377, 420-424.	6.0	140
42	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. Cell, 2021, 184, 5432-5447.e16.	13.5	131
43	Glycan Shield and Fusion Activation of a Deltacoronavirus Spike Glycoprotein Fine-Tuned for Enteric Infections. Journal of Virology, 2018, 92, .	1.5	124
44	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. ELife, 2020, 9, .	2.8	123
45	Structure of the phage TP901-1 1.8ÂMDa baseplate suggests an alternative host adhesion mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8954-8958.	3.3	121
46	RosettaES: a sampling strategy enabling automated interpretation of difficult cryo-EM maps. Nature Methods, 2017, 14, 797-800.	9.0	118
47	ACE2 binding is an ancestral and evolvable trait of sarbecoviruses. Nature, 2022, 603, 913-918.	13.7	109
48	Antibody-mediated broad sarbecovirus neutralization through ACE2 molecular mimicry. Science, 2022, 375, 449-454.	6.0	108
49	An Antibody Targeting the Fusion Machinery Neutralizes Dual-Tropic Infection and Defines a Site of Vulnerability on Epstein-Barr Virus. Immunity, 2018, 48, 799-811.e9.	6.6	104
50	Designed proteins assemble antibodies into modular nanocages. Science, 2021, 372, .	6.0	104
51	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. Nature, 0, , .	13.7	101
52	Automatically Fixing Errors in Glycoprotein Structures with Rosetta. Structure, 2019, 27, 134-139.e3.	1.6	93
53	Structure, Adsorption to Host, and Infection Mechanism of Virulent Lactococcal Phage p2. Journal of Virology, 2013, 87, 12302-12312.	1.5	85
54	ACE2-binding exposes the SARS-CoV-2 fusion peptide to broadly neutralizing coronavirus antibodies. Science, 2022, 377, 735-742.	6.0	85

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55	Virus Maturation. Annual Review of Biophysics, 2012, 41, 473-496.	4.5	80
56	Atomic structure of the 75 MDa extremophile <i>Sulfolobus</i> turreted icosahedral virus determined by CryoEM and X-ray crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5504-5509.	3.3	77
57	Crystal Structure of Bacteriophage SPP1 Distal Tail Protein (gp19.1). Journal of Biological Chemistry, 2010, 285, 36666-36673.	1.6	70
58	An antibody against the F glycoprotein inhibits Nipah and Hendra virus infections. Nature Structural and Molecular Biology, 2019, 26, 980-987.	3.6	69
59	Secreted Effectors Encoded within and outside of the Francisella Pathogenicity Island Promote Intramacrophage Growth. Cell Host and Microbe, 2016, 20, 573-583.	5.1	68
60	Vitrification after multiple rounds of sample application and blotting improves particle density on cryo-electron microscopy grids. Journal of Structural Biology, 2017, 198, 38-42.	1.3	68
61	Multivalent designed proteins neutralize SARS-CoV-2 variants of concern and confer protection against infection in mice. Science Translational Medicine, 2022, 14, eabn1252.	5.8	68
62	Cryo-EM structure of human adenovirus D26 reveals the conservation of structural organization among human adenoviruses. Science Advances, 2017, 3, e1602670.	4.7	64
63	Structures and host-adhesion mechanisms of lactococcal siphophages. Frontiers in Microbiology, 2014, 5, 3.	1.5	63
64	Role of bacteriophage T4 baseplate in regulating assembly and infection. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2654-2659.	3.3	63
65	Serological identification of SARS-CoV-2 infections among children visiting a hospital during the initial Seattle outbreak. Nature Communications, 2020, 11, 4378.	5.8	63
66	Discovery and Characterization of Spike Nâ€Terminal Domainâ€Binding Aptamers for Rapid SARSâ€CoVâ€2 Detection. Angewandte Chemie - International Edition, 2021, 60, 21211-21215.	7.2	62
67	Crystal Structure and Function of a DARPin Neutralizing Inhibitor of Lactococcal Phage TP901-1. Journal of Biological Chemistry, 2009, 284, 30718-30726.	1.6	55
68	Structure and Molecular Assignment of Lactococcal Phage TP901-1 Baseplate. Journal of Biological Chemistry, 2010, 285, 39079-39086.	1.6	55
69	Visualizing a Complete Siphoviridae Member by Single-Particle Electron Microscopy: the Structure of Lactococcal Phage TP901-1. Journal of Virology, 2013, 87, 1061-1068.	1.5	55
70	CryoEM structure of a prokaryotic cyclic nucleotide-gated ion channel. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4430-4435.	3.3	51
71	Design of multi-scale protein complexes by hierarchical building block fusion. Nature Communications, 2021, 12, 2294.	5.8	48
72	A SARS-CoV-2 variant elicits an antibody response with a shifted immunodominance hierarchy. PLoS Pathogens, 2022, 18, e1010248.	2.1	48

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73	Structure and Functional Analysis of the Host Recognition Device of Lactococcal Phage Tuc2009. Journal of Virology, 2013, 87, 8429-8440.	1.5	46
74	Viral infection modulation and neutralization by camelid nanobodies. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1371-9.	3.3	45
75	The Opening of the SPP1 Bacteriophage Tail, a Prevalent Mechanism in Gram-positive-infecting Siphophages. Journal of Biological Chemistry, 2011, 286, 25397-25405.	1.6	40
76	A Cross-Reactive Humanized Monoclonal Antibody Targeting Fusion Glycoprotein Function Protects Ferrets Against Lethal Nipah Virus and Hendra Virus Infection. Journal of Infectious Diseases, 2020, 221, S471-S479.	1.9	39
77	Structure of the type VI secretion system TssK–TssF–TssG baseplate subcomplex revealed by cryo-electron microscopy. Nature Communications, 2018, 9, 5385.	5.8	37
78	Architecture of a dsDNA Viral Capsid in Complex with Its Maturation Protease. Structure, 2014, 22, 230-237.	1.6	34
79	Single-particle EM reveals plasticity of interactions between the adenovirus penton base and integrin α <sub>V</sub> β <sub>3</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8815-8819.	3.3	33
80	Broadly neutralizing antibody cocktails targeting Nipah virus and Hendra virus fusion glycoproteins. Nature Structural and Molecular Biology, 2021, 28, 426-434.	3.6	33
81	Architecture and antigenicity of the Nipah virus attachment glycoprotein. Science, 2022, 375, 1373-1378.	6.0	33
82	Computational design of mechanically coupled axle-rotor protein assemblies. Science, 2022, 376, 383-390.	6.0	33
83	Stabilization of the SARS-CoV-2 Spike Receptor-Binding Domain Using Deep Mutational Scanning and Structure-Based Design. Frontiers in Immunology, 2021, 12, 710263.	2.2	32
84	Germline VRC01 antibody recognition of a modified clade C HIV-1 envelope trimer and a glycosylated HIV-1 gp120 core. ELife, 2018, 7, .	2.8	32
85	Adjuvanting a subunit SARS-CoV-2 vaccine with clinically relevant adjuvants induces durable protection in mice. Npj Vaccines, 2022, 7, .	2.9	32
86	Crucial steps in the structure determination of a coronavirus spike glycoprotein using cryoâ€electron microscopy. Protein Science, 2017, 26, 113-121.	3.1	31
87	Maximizing the potential of electron cryomicroscopy data collected using direct detectors. Journal of Structural Biology, 2013, 184, 193-202.	1.3	30
88	HIV-1 VRC01 Germline-Targeting Immunogens Select Distinct Epitope-Specific B Cell Receptors. Immunity, 2020, 53, 840-851.e6.	6.6	27
89	Overcoming Steric Restrictions of VRC01 HIV-1 Neutralizing Antibodies through Immunization. Cell Reports, 2019, 29, 3060-3072.e7.	2.9	26
90	Generation of ordered protein assemblies using rigid three-body fusion. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25

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91	Structure, receptor recognition, and antigenicity of the human coronavirus CCoV-HuPn-2018 spike glycoprotein. Cell, 2022, 185, 2279-2291.e17.	13.5	25
92	The Therapeutic Antibody LM609 Selectively Inhibits Ligand Binding to Human αVβ3 Integrin via Steric Hindrance. Structure, 2017, 25, 1732-1739.e5.	1.6	24
93	Thermodynamically coupled biosensors for detecting neutralizing antibodies against SARS-CoV-2 variants. Nature Biotechnology, 2022, 40, 1336-1340.	9.4	23
94	In silico detection of SARS-CoV-2 specific B-cell epitopes and validation in ELISA for serological diagnosis of COVID-19. Scientific Reports, 2021, 11, 4290.	1.6	22
95	Intrinsic disorder within AKAP79 fine-tunes anchored phosphatase activity toward substrates and drug sensitivity. ELife, 2017, 6, .	2.8	22
96	Structure-based design of stabilized recombinant influenza neuraminidase tetramers. Nature Communications, 2022, 13, 1825.	5.8	21
97	Maturation in Action: CryoEM Study of a Viral Capsid Caught during Expansion. Structure, 2012, 20, 1384-1390.	1.6	20
98	Production and biophysical characterization of the CorA transporter from Methanosarcina mazei. Analytical Biochemistry, 2009, 388, 115-121.	1.1	18
99	Functional Analysis of the Fusion and Attachment Glycoproteins of Mojiang Henipavirus. Viruses, 2021, 13, 517.	1.5	15
100	Discovery and Characterization of Spike Nâ€Terminal Domainâ€Binding Aptamers for Rapid SARSâ€CoVâ€2 Detection. Angewandte Chemie, 2021, 133, 21381-21385.	1.6	14
101	Crystal structure of <i>Bacillus subtilis</i> SPP1 phage gp22 shares fold similarity with a domain of lactococcal phage p2 RBP. Protein Science, 2010, 19, 1439-1443.	3.1	12
102	Immunization with a self-assembling nanoparticle vaccine displaying EBV gH/gL protects humanized mice against lethal viral challenge. Cell Reports Medicine, 2022, 3, 100658.	3.3	12
103	Potent monoclonal antibody–mediated neutralization of a divergent Hendra virus variant. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11
104	Effect of the viral protease on the dynamics of bacteriophage HK97 maturation intermediates characterized by variance analysis of cryo EM particle ensembles. Journal of Structural Biology, 2016, 193, 188-195.	1.3	7
105	Allosteric effects in bacteriophage HK97 procapsids revealed directly from covariance analysis of cryo EM data. Journal of Structural Biology, 2018, 202, 129-141.	1.3	5
106	Structural Studies of Coronavirus Fusion Proteins. Microscopy and Microanalysis, 2019, 25, 1300-1301.	0.2	4
107	Cystovirus Maturation at Atomic Resolution. Structure, 2013, 21, 1266-1268.	1.6	3
108	Integration of X-ray crystallography and electron cryo-microscopy in the analysis of virus structure and function. Crystallography Reviews, 2016, 22, 102-127.	0.4	3

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109	Cryo-EM Structure of Nipah Virus Fusion Glycoprotein in Complex with a Monoclonal Antibody Reveals Mechanism of Neutralization. Microscopy and Microanalysis, 2019, 25, 1328-1329.	0.2	Ο