John E Bowen

List of Publications by Citations

47 papers	4,607 citations	25 h-index	49 g-index
49 ext. papers	8,595 ext. citations	39.2 avg, IF	5.74 L-index

#	Paper	IF	Citations
47	Deep Mutational Scanning of SARS-CoV-2 Receptor Binding Domain Reveals Constraints on Folding and ACE2 Binding. *Cell*, **2020**, 182, 1295-1310.e20	56.2	935
46	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	56.2	601
45	N-terminal domain antigenic mapping reveals a site of vulnerability for SARS-CoV-2. *Cell*, **2021**, 184, 2332-2347.e16	56.2	396
44	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. *Nature*, **2021**, 593, 136-141	50.4	376
43	Ultrapotent human antibodies protect against SARS-CoV-2 challenge via multiple mechanisms. *Science*, **2020**, 370, 950-957	33.3	314
42	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift.. *Nature*, **2021**,	50.4	204
41	SARS-CoV-2 immune evasion by the B.1.427/B.1.429 variant of concern. *Science*, **2021**, 373, 648-654	33.3	197
40	Spread of a SARS-CoV-2 variant through Europe in the summer of 2020. *Nature*, **2021**, 595, 707-712	50.4	168
39	Emergence and spread of a SARS-CoV-2 variant through Europe in the summer of 2020 **2021**,		142
38	SARS-CoV-2 RBD antibodies that maximize breadth and resistance to escape. *Nature*, **2021**, 597, 97-102	50.4	118
37	Altered TMPRSS2 usage by SARS-CoV-2 Omicron impacts tropism and fusogenicity.. *Nature*, **2022**,	50.4	95
36	Broad sarbecovirus neutralization by a human monoclonal antibody. *Nature*, **2021**, 597, 103-108	50.4	94
35	Structure-guided covalent stabilization of coronavirus spike glycoprotein trimers in the closed conformation. *Nature Structural and Molecular Biology*, **2020**, 27, 942-949	17.6	89
34	Broad betacoronavirus neutralization by a stem helix-specific human antibody. *Science*, **2021**, 373, 1109-1116	33.3	80
33	Structural basis of SARS-CoV-2 Omicron immune evasion and receptor engagement.. *Science*, **2022**, 375, eabn8652	33.3	71
32	SARS-CoV-2 B.1.1.7 sensitivity to mRNA vaccine-elicited, convalescent and monoclonal antibodies **2021**,		69
31	Molecular basis of immune evasion by the Delta and Kappa SARS-CoV-2 variants. *Science*, **2021**, eabl8506	33.3	65

30	Structural basis for broad coronavirus neutralization. *Nature Structural and Molecular Biology*, **2021**, 28, 478-486	17.6	65
29	Lectins enhance SARS-CoV-2 infection and influence neutralizing antibodies. *Nature*, **2021**, 598, 342-347	50.4	63
28	SARS-CoV-2 immune evasion by variant B.1.427/B.1.429 **2021**,		62
27	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. *Nature*,	50.4	44
26	N-terminal domain antigenic mapping reveals a site of vulnerability for SARS-CoV-2 **2021**,		34
25	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. *Cell*, **2021**, 184, 5432-5447.e16	56.2	34
24	Deep mutational scanning of SARS-CoV-2 receptor binding domain reveals constraints on folding and ACE2 binding **2020**,		33
23	Molecular basis of immune evasion by the delta and kappa SARS-CoV-2 variants **2021**,		31
22	Antibody-mediated broad sarbecovirus neutralization through ACE2 molecular mimicry.. *Science*, **2022**, 375, eabm8143	33.3	23
21	SARS-CoV-2 Omicron spike mediated immune escape and tropism shift		23
20	SARS-CoV-2 breakthrough infections elicit potent, broad, and durable neutralizing antibody responses.. *Cell*, **2022**,	56.2	21
19	Membrane lectins enhance SARS-CoV-2 infection and influence the neutralizing activity of different classes of antibodies		18
18	Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. **2021**,		16
17	Structural basis for broad coronavirus neutralization **2021**,		14
16	Structural basis for broad sarbecovirus neutralization by a human monoclonal antibody **2021**,		14
15	A human antibody that broadly neutralizes betacoronaviruses protects against SARS-CoV-2 by blocking the fusion machinery		13
14	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines **2021**,		12
13	Antibodies to the SARS-CoV-2 receptor-binding domain that maximize breadth and resistance to viral escape **2021**,		12

12	Structural basis of SARS-CoV-2 Omicron immune evasion and receptor engagement		11
11	A SARS-CoV-2 variant elicits an antibody response with a shifted immunodominance hierarchy.. *PLoS Pathogens*, **2022**, 18, e1010248	7.6	7
10	Antibody-mediated broad sarbecovirus neutralization through ACE2 molecular mimicry **2021**,		7
9	SARS-CoV-2 spike conformation determines plasma neutralizing activity. **2021**,		6
8	A SARS-CoV-2 variant elicits an antibody response with a shifted immunodominance hierarchy **2021** ,		5
7	Imprinted antibody responses against SARS-CoV-2 Omicron sublineages		5
6	Multivalent designed proteins protect against SARS-CoV-2 variants of concern **2021**,		4
5	Omicron BA.1 and BA.2 neutralizing activity elicited by a comprehensive panel of human vaccines. **2022**,		3
4	ACE2 engagement exposes the fusion peptide to pan-coronavirus neutralizing antibodies		3
3	Delta breakthrough infections elicit potent, broad and durable neutralizing antibody responses. **2021**,		3
2	Multivalent designed proteins neutralize SARS-CoV-2 variants of concern and confer protection against infection in mice.. *Science Translational Medicine*, **2022**, 14, eabn1252	17.5	3
1	Structural changes in the SARS-CoV-2 spike E406W mutant escaping a clinical monoclonal antibody cocktail. **2022**,		2