

# Neil P King

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	4,769 citations	26 h-index	69 g-index
80 ext. papers	7,034 ext. citations	23.3 avg, IF	5.8 L-index

#	Paper	IF	Citations
67	Mannose-binding lectin and complement mediate follicular localization and enhanced immunogenicity of diverse protein nanoparticle immunogens.. <i>Cell Reports</i> , <b>2022</b> , 38, 110217	10.6	1
66	Structure-based design of stabilized recombinant influenza neuraminidase tetramers.. <i>Nature Communications</i> , <b>2022</b> , 13, 1825	17.4	0
65	Computational design of mechanically coupled axle-rotor protein assemblies.. <i>Science</i> , <b>2022</b> , 376, 383-390.	39.3	2
64	Epitope-focused immunogen design based on the ebolavirus glycoprotein HR2-MPER region.. <i>PLoS Pathogens</i> , <b>2022</b> , 18, e1010518	7.6	
63	Airway antibodies emerge according to COVID-19 severity and wane rapidly but reappear after SARS-CoV-2 vaccination. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9	3
62	Aldehyde Oxidase Contributes to All-Trans Retinoic Acid Biosynthesis in Human Liver. <i>Drug Metabolism and Disposition</i> , <b>2021</b> , 49, 202-211	4	3
61	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines <b>2021</b> ,		12
60	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. <i>Cell</i> , <b>2021</b> , 184, 1188-1200.e19	56.2	68
59	Multimeric antibodies from antigen-specific human IgM+ memory B cells restrict Plasmodium parasites. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	5
58	Quadrivalent influenza nanoparticle vaccines induce broad protection. <i>Nature</i> , <b>2021</b> , 592, 623-628	50.4	40
57	Engineered SARS-CoV-2 receptor binding domain improves immunogenicity in mice and elicits protective immunity in hamsters <b>2021</b> ,		10
56	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , <b>2021</b> , 594, 253-258	50.4	92
55	Designed proteins assemble antibodies into modular nanocages. <i>Science</i> , <b>2021</b> , 372,	33.3	35
54	Stabilization of the SARS-CoV-2 Spike Receptor-Binding Domain Using Deep Mutational Scanning and Structure-Based Design. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 710263	8.4	7
53	Structure-based design of novel polyhedral protein nanomaterials. <i>Current Opinion in Microbiology</i> , <b>2021</b> , 61, 51-57	7.9	3
52	Qualification of ELISA and neutralization methodologies to measure SARS-CoV-2 humoral immunity using human clinical samples <b>2021</b> ,		1
51	Dynamics of Neutralizing Antibody Titers in the Months After Severe Acute Respiratory Syndrome Coronavirus 2 Infection. <i>Journal of Infectious Diseases</i> , <b>2021</b> , 223, 197-205	7	119

50	Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19. <i>Cell</i> , <b>2021</b> , 184, 169-183.e16	36.2	327
49	Immunofocusing and enhancing autologous Tier-2 HIV-1 neutralization by displaying Env trimers on two-component protein nanoparticles. <i>Npj Vaccines</i> , <b>2021</b> , 6, 24	9.5	8
48	Complete and cooperative in vitro assembly of computationally designed self-assembling protein nanomaterials. <i>Nature Communications</i> , <b>2021</b> , 12, 883	17.4	7
47	Adjuvanting a subunit SARS-CoV-2 nanoparticle vaccine to induce protective immunity in non-human primates <b>2021</b> ,		7
46	In silico detection of SARS-CoV-2 specific B-cell epitopes and validation in ELISA for serological diagnosis of COVID-19. <i>Scientific Reports</i> , <b>2021</b> , 11, 4290	4.9	9
45	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. <i>Nature Communications</i> , <b>2021</b> , 12, 4817	17.4	8
44	Hallmarks of icosahedral virus capsids emerged during laboratory evolution of a bacterial enzyme. <i>Trends in Biochemical Sciences</i> , <b>2021</b> , 46, 863-865	10.3	
43	Limited access to antigen drives generation of early B cell memory while restraining the plasmablast response. <i>Immunity</i> , <b>2021</b> , 54, 2005-2023.e10	32.3	12
42	Qualification of ELISA and neutralization methodologies to measure SARS-CoV-2 humoral immunity using human clinical samples. <i>Journal of Immunological Methods</i> , <b>2021</b> , 499, 113160	2.5	2
41	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , <b>2021</b> , 184, 5432-5447.e16	56.2	34
40	Engineered SARS-CoV-2 receptor binding domain improves manufacturability in yeast and immunogenicity in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	13
39	Protocol and Reagents for Pseudotyping Lentiviral Particles with SARS-CoV-2 Spike Protein for Neutralization Assays. <i>Viruses</i> , <b>2020</b> , 12,	6.2	360
38	Functional SARS-CoV-2-specific immune memory persists after mild COVID-19 <b>2020</b> ,		7
37	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. <i>ELife</i> , <b>2020</b> , 9,	8.9	51
36	Serological identification of SARS-CoV-2 infections among children visiting a hospital during the initial Seattle outbreak <b>2020</b> ,		9
35	Elicitation of potent neutralizing antibody responses by designed protein nanoparticle vaccines for SARS-CoV-2 <b>2020</b> ,		10
34	Designed proteins assemble antibodies into modular nanocages <b>2020</b> ,		5
33	Design and structure of two new protein cages illustrate successes and ongoing challenges in protein engineering. <i>Protein Science</i> , <b>2020</b> , 29, 919-929	6.3	9

32	A Potent Anti-Malarial Human Monoclonal Antibody Targets Circumsporozoite Protein Minor Repeats and Neutralizes Sporozoites in the Liver. <i>Immunity</i> , <b>2020</b> , 53, 733-744.e8	32.3	29
31	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008665	7.6	25
30	Deep Mutational Scanning of SARS-CoV-2 Receptor Binding Domain Reveals Constraints on Folding and ACE2 Binding. <i>Cell</i> , <b>2020</b> , 182, 1295-1310.e20	56.2	935
29	Elicitation of Potent Neutralizing Antibody Responses by Designed Protein Nanoparticle Vaccines for SARS-CoV-2. <i>Cell</i> , <b>2020</b> , 183, 1367-1382.e17	56.2	217
28	Serological identification of SARS-CoV-2 infections among children visiting a hospital during the initial Seattle outbreak. <i>Nature Communications</i> , <b>2020</b> , 11, 4378	17.4	45
27	Targeting HIV Env immunogens to B cell follicles in nonhuman primates through immune complex or protein nanoparticle formulations. <i>Npj Vaccines</i> , <b>2020</b> , 5, 72	9.5	20
26	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665		
25	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665		
24	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665		
23	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665		
22	Enhancing and shaping the immunogenicity of native-like HIV-1 envelope trimers with a two-component protein nanoparticle. <i>Nature Communications</i> , <b>2019</b> , 10, 4272	17.4	80
21	New Vaccine Design and Delivery Technologies. <i>Journal of Infectious Diseases</i> , <b>2019</b> , 219, S88-S96	7	35
20	De novo design of tunable, pH-driven conformational changes. <i>Science</i> , <b>2019</b> , 364, 658-664	33.3	60
19	Induction of Potent Neutralizing Antibody Responses by a Designed Protein Nanoparticle Vaccine for Respiratory Syncytial Virus. <i>Cell</i> , <b>2019</b> , 176, 1420-1431.e17	56.2	190
18	Confirmation of intersubunit connectivity and topology of designed protein complexes by native MS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 1268-1273	11.5	40
17	Evolution of a designed protein assembly encapsulating its own RNA genome. <i>Nature</i> , <b>2017</b> , 552, 415-426	50.4	116
16	Accurate design of megadalton-scale two-component icosahedral protein complexes. <i>Science</i> , <b>2016</b> , 353, 389-94	33.3	322
15	Multivalent Display of Antifreeze Proteins by Fusion to Self-Assembling Protein Cages Enhances Ice-Binding Activities. <i>Biochemistry</i> , <b>2016</b> , 55, 6811-6820	3.2	23

14	Design of a hyperstable 60-subunit protein dodecahedron. [corrected]. <i>Nature</i> , <b>2016</b> , 535, 136-9	50.4	243
13	Designed proteins induce the formation of nanocage-containing extracellular vesicles. <i>Nature</i> , <b>2016</b> , 540, 292-295	50.4	69
12	Structure of a designed tetrahedral protein assembly variant engineered to have improved soluble expression. <i>Protein Science</i> , <b>2015</b> , 24, 1695-701	6.3	18
11	Accurate design of co-assembling multi-component protein nanomaterials. <i>Nature</i> , <b>2014</b> , 510, 103-8	50.4	403
10	Practical approaches to designing novel protein assemblies. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 632-8	8.1	68
9	Computational design of self-assembling protein nanomaterials with atomic level accuracy. <i>Science</i> , <b>2012</b> , 336, 1171-4	33.3	473
8	Tailored Design of Protein Nanoparticle Scaffolds for Multivalent Presentation of Viral Glycoprotein Antigens		7
7	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens		4
6	Targeting HIV Env immunogens to B cell follicles in non-human primates through immune complex or protein nanoparticle formulations		2
5	Elicitation of broadly protective immunity to influenza by multivalent hemagglutinin nanoparticle vaccines		15
4	Dynamics of neutralizing antibody titers in the months after SARS-CoV-2 infection		38
3	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection		1
2	Growing Glycans in Rosetta: Accurate de novo glycan modeling, density fitting, and rational sequon design		2
1	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM		1