

# Neil P King

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3821689/neil-p-king-publications-by-citations.pdf>

**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
66	Computational design of self-assembling protein nanomaterials with atomic level accuracy. <i>Science</i> , <b>2012</b> , 336, 1171-4	33.3	473
65	Accurate design of co-assembling multi-component protein nanomaterials. <i>Nature</i> , <b>2014</b> , 510, 103-8	50.4	403
64	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
63	Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19. <i>Cell</i> , <b>2021</b> , 184, 169-183.e17	56.2	327
62	Accurate design of megadalton-scale two-component icosahedral protein complexes. <i>Science</i> , <b>2016</b> , 353, 389-94	33.3	322
61	Design of a hyperstable 60-subunit protein dodecahedron. [corrected]. <i>Nature</i> , <b>2016</b> , 535, 136-9	50.4	243
60	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
59	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
58	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
57	Evolution of a designed protein assembly encapsulating its own RNA genome. <i>Nature</i> , <b>2017</b> , 552, 415-420.e1	50.4	116
56	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , <b>2021</b> , 594, 253-258	50.4	92
55	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
54	Designed proteins induce the formation of nanocage-containing extracellular vesicles. <i>Nature</i> , <b>2016</b> , 540, 292-295	50.4	69
53	Practical approaches to designing novel protein assemblies. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 632-8	8.1	68
52	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
51	De novo design of tunable, pH-driven conformational changes. <i>Science</i> , <b>2019</b> , 364, 658-664	33.3	60

50	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. <i>ELife</i> , <b>2020</b> , 9,	8.9	51
49	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
48	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
47	Quadrivalent influenza nanoparticle vaccines induce broad protection. <i>Nature</i> , <b>2021</b> , 592, 623-628	50.4	40
46	Dynamics of neutralizing antibody titers in the months after SARS-CoV-2 infection		38
45	New Vaccine Design and Delivery Technologies. <i>Journal of Infectious Diseases</i> , <b>2019</b> , 219, S88-S96	7	35
44	Designed proteins assemble antibodies into modular nanocages. <i>Science</i> , <b>2021</b> , 372,	33.3	35
43	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
42	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
41	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
40	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
39	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
38	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
37	Elicitation of broadly protective immunity to influenza by multivalent hemagglutinin nanoparticle vaccines		15
36	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
35	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines <b>2021</b> ,		12
34	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
33	Elicitation of potent neutralizing antibody responses by designed protein nanoparticle vaccines for SARS-CoV-2 <b>2020</b> ,		10

32	Engineered SARS-CoV-2 receptor binding domain improves immunogenicity in mice and elicits protective immunity in hamsters <b>2021</b> ,		10
31	Serological identification of SARS-CoV-2 infections among children visiting a hospital during the initial Seattle outbreak <b>2020</b> ,		9
30	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
29	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
28	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
27	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. <i>Nature Communications</i> , <b>2021</b> , 12, 4817	17.4	8
26	Functional SARS-CoV-2-specific immune memory persists after mild COVID-19 <b>2020</b> ,		7
25	Tailored Design of Protein Nanoparticle Scaffolds for Multivalent Presentation of Viral Glycoprotein Antigens		7
24	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
23	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
22	Adjuvanting a subunit SARS-CoV-2 nanoparticle vaccine to induce protective immunity in non-human primates <b>2021</b> ,		7
21	Designed proteins assemble antibodies into modular nanocages <b>2020</b> ,		5
20	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
19	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens		4
18	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
17	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
16	Structure-based design of novel polyhedral protein nanomaterials. <i>Current Opinion in Microbiology</i> , <b>2021</b> , 61, 51-57	7.9	3
15	Targeting HIV Env immunogens to B cell follicles in non-human primates through immune complex or protein nanoparticle formulations		2

14	Growing Glycans in Rosetta: Accurate de novo glycan modeling, density fitting, and rational sequon design	2
13	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
12	Computational design of mechanically coupled axle-rotor protein assemblies.. <i>Science</i> , <b>2022</b> , 376, 383-390	9.3 2
11	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
10	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection	1
9	Qualification of ELISA and neutralization methodologies to measure SARS-CoV-2 humoral immunity using human clinical samples <b>2021</b> ,	1
8	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM	1
7	Structure-based design of stabilized recombinant influenza neuraminidase tetramers.. <i>Nature Communications</i> , <b>2022</b> , 13, 1825	17.4 0
6	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
5	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665	
4	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665	
3	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665	
2	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens <b>2020</b> , 16, e1008665	
1	Epitope-focused immunogen design based on the ebolavirus glycoprotein HR2-MPER region.. <i>PLoS Pathogens</i> , <b>2022</b> , 18, e1010518	7.6