

Neil P King

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

8,671
citations

159585

30
h-index

189892

50
g-index

80
all docs

80
docs citations

80
times ranked

12591
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Mutational Scanning of SARS-CoV-2 Receptor Binding Domain Reveals Constraints on Folding and ACE2 Binding. <i>Cell</i> , 2020, 182, 1295-1310.e20.	28.9	1,726
2	Protocol and Reagents for Pseudotyping Lentiviral Particles with SARS-CoV-2 Spike Protein for Neutralization Assays. <i>Viruses</i> , 2020, 12, 513.	3.3	641
3	Computational Design of Self-Assembling Protein Nanomaterials with Atomic Level Accuracy. <i>Science</i> , 2012, 336, 1171-1174.	12.6	588
4	Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19. <i>Cell</i> , 2021, 184, 169-183.e17.	28.9	580
5	Accurate design of co-assembling multi-component protein nanomaterials. <i>Nature</i> , 2014, 510, 103-108.	27.8	504
6	Accurate design of megadalton-scale two-component icosahedral protein complexes. <i>Science</i> , 2016, 353, 389-394.	12.6	466
7	Elicitation of Potent Neutralizing Antibody Responses by Designed Protein Nanoparticle Vaccines for SARS-CoV-2. <i>Cell</i> , 2020, 183, 1367-1382.e17.	28.9	420
8	Design of a hyperstable 60-subunit protein icosahedron. <i>Nature</i> , 2016, 535, 136-139.	27.8	373
9	Induction of Potent Neutralizing Antibody Responses by a Designed Protein Nanoparticle Vaccine for Respiratory Syncytial Virus. <i>Cell</i> , 2019, 176, 1420-1431.e17.	28.9	339
10	Adjuvanting a subunit COVID-19 vaccine to induce protective immunity. <i>Nature</i> , 2021, 594, 253-258.	27.8	253
11	Dynamics of Neutralizing Antibody Titers in the Months After Severe Acute Respiratory Syndrome Coronavirus 2 Infection. <i>Journal of Infectious Diseases</i> , 2021, 223, 197-205.	4.0	216
12	Quadrivalent influenza nanoparticle vaccines induce broad protection. <i>Nature</i> , 2021, 592, 623-628.	27.8	180
13	Evolution of a designed protein assembly encapsulating its own RNA genome. <i>Nature</i> , 2017, 552, 415-420.	27.8	174
14	Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. <i>Cell</i> , 2021, 184, 1188-1200.e19.	28.9	154
15	Enhancing and shaping the immunogenicity of native-like HIV-1 envelope trimers with a two-component protein nanoparticle. <i>Nature Communications</i> , 2019, 10, 4272.	12.8	149
16	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021, 184, 5432-5447.e16.	28.9	131
17	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. <i>ELife</i> , 2020, 9, .	6.0	123
18	Designed proteins induce the formation of nanocage-containing extracellular vesicles. <i>Nature</i> , 2016, 540, 292-295.	27.8	113

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19	De novo design of tunable, pH-driven conformational changes. <i>Science</i> , 2019, 364, 658-664.	12.6	109
20	Designed proteins assemble antibodies into modular nanocages. <i>Science</i> , 2021, 372, .	12.6	104
21	A Potent Anti-Malarial Human Monoclonal Antibody Targets Circumsporozoite Protein Minor Repeats and Neutralizes Sporozoites in the Liver. <i>Immunity</i> , 2020, 53, 733-744.e8.	14.3	99
22	Practical approaches to designing novel protein assemblies. <i>Current Opinion in Structural Biology</i> , 2013, 23, 632-638.	5.7	74
23	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> , 2021, 118, .	7.1	68
24	Serological identification of SARS-CoV-2 infections among children visiting a hospital during the initial Seattle outbreak. <i>Nature Communications</i> , 2020, 11, 4378.	12.8	63
25	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> , 2018, 115, 1268-1273.	7.1	60
26	New Vaccine Design and Delivery Technologies. <i>Journal of Infectious Diseases</i> , 2019, 219, S88-S96.	4.0	53
27	Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens. <i>PLoS Pathogens</i> , 2020, 16, e1008665.	4.7	52
28	Limited access to antigen drives generation of early B cell memory while restraining the plasmablast response. <i>Immunity</i> , 2021, 54, 2005-2023.e10.	14.3	46
29	Complete and cooperative in vitro assembly of computationally designed self-assembling protein nanomaterials. <i>Nature Communications</i> , 2021, 12, 883.	12.8	42
30	Targeting HIV Env immunogens to B cell follicles in nonhuman primates through immune complex or protein nanoparticle formulations. <i>Npj Vaccines</i> , 2020, 5, 72.	6.0	39
31	Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. <i>Nature Communications</i> , 2021, 12, 4817.	12.8	35
32	Immunofocusing and enhancing autologous Tier-2 HIV-1 neutralization by displaying Env trimers on two-component protein nanoparticles. <i>Npj Vaccines</i> , 2021, 6, 24.	6.0	33
33	Computational design of mechanically coupled axle-rotor protein assemblies. <i>Science</i> , 2022, 376, 383-390.	12.6	33
34	Design and structure of two new protein cages illustrate successes and ongoing challenges in protein engineering. <i>Protein Science</i> , 2020, 29, 919-929.	7.6	32
35	Stabilization of the SARS-CoV-2 Spike Receptor-Binding Domain Using Deep Mutational Scanning and Structure-Based Design. <i>Frontiers in Immunology</i> , 2021, 12, 710263.	4.8	32
36	Adjuvanting a subunit SARS-CoV-2 vaccine with clinically relevant adjuvants induces durable protection in mice. <i>Npj Vaccines</i> , 2022, 7, .	6.0	32

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37	Structure of a designed tetrahedral protein assembly variant engineered to have improved soluble expression. <i>Protein Science</i> , 2015, 24, 1695-1701.	7.6	30
38	Mannose-binding lectin and complement mediate follicular localization and enhanced immunogenicity of diverse protein nanoparticle immunogens. <i>Cell Reports</i> , 2022, 38, 110217.	6.4	29
39	Engineering Self-Assembling Protein Nanoparticles for Therapeutic Delivery. <i>Bioconjugate Chemistry</i> , 2022, 33, 2018-2034.	3.6	28
40	Airway antibodies emerge according to COVID-19 severity and wane rapidly but reappear after SARS-CoV-2 vaccination. <i>JCI Insight</i> , 2021, 6, .	5.0	27
41	Multivalent Display of Antifreeze Proteins by Fusion to Self-Assembling Protein Cages Enhances Ice-Binding Activities. <i>Biochemistry</i> , 2016, 55, 6811-6820.	2.5	25
42	Structure, receptor recognition, and antigenicity of the human coronavirus CCoV-HuPn-2018 spike glycoprotein. <i>Cell</i> , 2022, 185, 2279-2291.e17.	28.9	25
43	Structure-based design of novel polyhedral protein nanomaterials. <i>Current Opinion in Microbiology</i> , 2021, 61, 51-57.	5.1	24
44	Multimeric antibodies from antigen-specific human IgM+ memory B cells restrict <i>Plasmodium</i> parasites. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	23
45	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> , 2021, 11, 4290.	3.3	22
46	Structure-based design of stabilized recombinant influenza neuraminidase tetramers. <i>Nature Communications</i> , 2022, 13, 1825.	12.8	21
47	Aldehyde Oxidase Contributes to All- <i>Trans</i> -Retinoic Acid Biosynthesis in Human Liver. <i>Drug Metabolism and Disposition</i> , 2021, 49, 202-211.	3.3	13
48	Qualification of ELISA and neutralization methodologies to measure SARS-CoV-2 humoral immunity using human clinical samples. <i>Journal of Immunological Methods</i> , 2021, 499, 113160.	1.4	12
49	Immunization with a self-assembling nanoparticle vaccine displaying EBV gH/gL protects humanized mice against lethal viral challenge. <i>Cell Reports Medicine</i> , 2022, 3, 100658.	6.5	12
50	Epitope-focused immunogen design based on the ebolavirus glycoprotein HR2-MPER region. <i>PLoS Pathogens</i> , 2022, 18, e1010518.	4.7	5
51	Hallmarks of icosahedral virus capsids emerged during laboratory evolution of a bacterial enzyme. <i>Trends in Biochemical Sciences</i> , 2021, 46, 863-865.	7.5	1
52	Title is missing!. , 2020, 16, e1008665.		0
53	Title is missing!. , 2020, 16, e1008665.		0
54	Title is missing!. , 2020, 16, e1008665.		0

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55	Title is missing!. , 2020, 16, e1008665.		0