

Kelly K Lee

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

5,341
citations

126901

33
h-index

118840

62
g-index

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all docs

73
docs citations

73
times ranked

6687
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Cryo-ET of Env on intact HIV virions reveals structural variation and positioning on the Gag lattice. <i>Cell</i> , 2022, 185, 641-653.e17.	28.9	50
3	Structure-guided changes at the V2 apex of HIV-1 clade C trimer enhance elicitation of autologous neutralizing and broad V1V2-scaffold antibodies. <i>Cell Reports</i> , 2022, 38, 110436.	6.4	6
4	Structure-based design of stabilized recombinant influenza neuraminidase tetramers. <i>Nature Communications</i> , 2022, 13, 1825.	12.8	21
5	Structural dynamics reveal isolate-specific differences at neutralization epitopes on HIV Env. <i>IScience</i> , 2022, 25, 104449.	4.1	16
6	Development of antibody-dependent cell cytotoxicity function in HIV-1 antibodies. <i>ELife</i> , 2021, 10, .	6.0	3
7	Quadrivalent influenza nanoparticle vaccines induce broad protection. <i>Nature</i> , 2021, 592, 623-628.	27.8	180
8	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
9	Functional development of a V3/glycan-specific broadly neutralizing antibody isolated from a case of HIV superinfection. <i>ELife</i> , 2021, 10, .	6.0	6
10	Structurally related but genetically unrelated antibody lineages converge on an immunodominant HIV-1 Env neutralizing determinant following trimer immunization. <i>PLoS Pathogens</i> , 2021, 17, e1009543.	4.7	5
11	Simple Platform for Automating Decoupled LC-MS Analysis of Hydrogen/Deuterium Exchange Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 597-600.	2.8	19
12	How a broadly neutralizing antibody grapples with antigenic and conformational diversity in dengue virus. <i>Cell</i> , 2021, 184, 6015-6016.	28.9	2
13	Bridging protein structure, dynamics, and function using hydrogen/deuterium exchange mass spectrometry. <i>Protein Science</i> , 2020, 29, 843-855.	7.6	76
14	Direct imaging of liquid domains in membranes by cryo-electron tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19713-19719.	7.1	58
15	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
16	The influence of proline isomerization on potency and stability of anti-HIV antibody 10E8. <i>Scientific Reports</i> , 2020, 10, 14313.	3.3	12
17	Structural monitoring of a transient intermediate in the hemagglutinin fusion machinery on influenza virions. <i>Science Advances</i> , 2020, 6, eaaz8822.	10.3	28
18	New Biophysical Approaches Reveal the Dynamics and Mechanics of Type I Viral Fusion Machinery and Their Interplay with Membranes. <i>Viruses</i> , 2020, 12, 413.	3.3	13

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19	Prebiotic amino acids bind to and stabilize prebiotic fatty acid membranes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17239-17244.	7.1	79
20	De novo design of tunable, pH-driven conformational changes. Science, 2019, 364, 658-664.	12.6	109
21	Kappa chain maturation helps drive rapid development of an infant HIV-1 broadly neutralizing antibody lineage. Nature Communications, 2019, 10, 2190.	12.8	31
22	Deep Mutational Scan of the Highly Conserved Influenza A Virus M1 Matrix Protein Reveals Substantial Intrinsic Mutational Tolerance. Journal of Virology, 2019, 93, .	3.4	23
23	Induction of Potent Neutralizing Antibody Responses by a Designed Protein Nanoparticle Vaccine for Respiratory Syncytial Virus. Cell, 2019, 176, 1420-1431.e17.	28.9	339
24	Tracking Higher Order Protein Structure by Hydrogen-Deuterium Exchange Mass Spectrometry. Protein and Peptide Letters, 2019, 26, 16-26.	0.9	21
25	Superinfection Drives HIV Neutralizing Antibody Responses from Several B Cell Lineages that Contribute to a Polyclonal Repertoire. Cell Reports, 2018, 23, 682-691.	6.4	20
26	Dissection of Epitope-Specific Mechanisms of Neutralization of Influenza Virus by Intact IgG and Fab Fragments. Journal of Virology, 2018, 92, .	3.4	17
27	Influenza Virus-Liposome Fusion Studies Using Fluorescence Dequenching and Cryo-electron Tomography. Methods in Molecular Biology, 2018, 1836, 261-279.	0.9	11
28	Probing Structural Variation and Dynamics in the HIV-1 Env Fusion Glycoprotein. Current HIV Research, 2018, 16, 5-12.	0.5	12
29	Nucleoside-modified mRNA vaccines induce potent T follicular helper and germinal center B cell responses. Journal of Experimental Medicine, 2018, 215, 1571-1588.	8.5	366
30	Single-Molecule Analysis of a Viral Fusion Protein Illuminates a Fusion-Active Intermediate State. Cell, 2018, 174, 775-777.	28.9	5
31	Computational design of trimeric influenza-neutralizing proteins targeting the hemagglutinin receptor binding site. Nature Biotechnology, 2017, 35, 667-671.	17.5	108
32	Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. Cell Reports, 2017, 20, 1805-1817.	6.4	171
33	Extracellular Matrix Proteins Mediate HIV-1 gp120 Interactions with $\hat{\pm}4^27$. Journal of Virology, 2017, 91, .	3.4	8
34	Dynamic Viral Glycoprotein Machines: Approaches for Probing Transient States That Drive Membrane Fusion. Viruses, 2016, 8, 15.	3.3	12
35	Dissecting Virus Infectious Cycles by Cryo-Electron Microscopy. PLoS Pathogens, 2016, 12, e1005625.	4.7	12
36	Probing the Impact of Local Structural Dynamics of Conformational Epitopes on Antibody Recognition. Biochemistry, 2016, 55, 2197-2213.	2.5	23

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37	Visualization and Sequencing of Membrane Remodeling Leading to Influenza Virus Fusion. <i>Journal of Virology</i> , 2016, 90, 6948-6962.	3.4	62
38	Site-Specific Mapping of Sialic Acid Linkage Isomers by Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 5212-5217.	6.5	63
39	Somatic Hypermutation-Induced Changes in the Structure and Dynamics of HIV-1 Broadly Neutralizing Antibodies. <i>Structure</i> , 2016, 24, 1346-1357.	3.3	35
40	Changes in Structure and Antigenicity of HIV-1 Env Trimers Resulting from Removal of a Conserved CD4 Binding Site-Proximal Glycan. <i>Journal of Virology</i> , 2016, 90, 9224-9236.	3.4	25
41	Iterative structure-based improvement of a fusion-glycoprotein vaccine against RSV. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 811-820.	8.2	110
42	Epitope-Independent Purification of Native-Like Envelope Trimers from Diverse HIV-1 Isolates. <i>Journal of Virology</i> , 2016, 90, 9471-9482.	3.4	43
43	HIV-1 Neutralizing Antibodies with Limited Hypermutation from an Infant. <i>Cell</i> , 2016, 166, 77-87.	28.9	143
44	Tuning a High Transmission Ion Guide to Prevent Gas-Phase Proton Exchange During H/D Exchange MS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 662-668.	2.8	34
45	Structures of HIV-1 Env V1V2 with broadly neutralizing antibodies reveal commonalities that enable vaccine design. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 81-90.	8.2	162
46	Isotope Labeling of Biomolecules. <i>Methods in Enzymology</i> , 2016, 566, 405-426.	1.0	25
47	Sequential and Simultaneous Immunization of Rabbits with HIV-1 Envelope Glycoprotein SOSIP.664 Trimers from Clades A, B and C. <i>PLoS Pathogens</i> , 2016, 12, e1005864.	4.7	138
48	Complementary Approaches to Dissecting Mechanisms of Protein-mediated Membrane Fusion. <i>Microscopy and Microanalysis</i> , 2015, 21, 1279-1280.	0.4	0
49	Immunogenicity of Stabilized HIV-1 Envelope Trimers with Reduced Exposure of Non-neutralizing Epitopes. <i>Cell</i> , 2015, 163, 1702-1715.	28.9	341
50	Antibody potency relates to the ability to recognize the closed, pre-fusion form of HIV Env. <i>Nature Communications</i> , 2015, 6, 6144.	12.8	130
51	HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , 2015, 349, aac4223.	12.6	482
52	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 522-531.	8.2	333
53	Comparative glycoprofiling of HIV gp120 immunogens by capillary electrophoresis and MALDI mass spectrometry. <i>Electrophoresis</i> , 2015, 36, 1305-1313.	2.4	14
54	Dynamic Changes during Acid-Induced Activation of Influenza Hemagglutinin. <i>Structure</i> , 2015, 23, 665-676.	3.3	60

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55	Local and global structural drivers for the photoactivation of the orange carotenoid protein. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5567-74.	7.1	121
56	Influences on the Design and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers. Journal of Virology, 2015, 89, 12189-12210.	3.4	88
57	Kinetochores require oligomerization of Dam1 complex to maintain microtubule attachments against tension and promote biorientation. Nature Communications, 2014, 5, 4951.	12.8	51
58	Control of RecBCD Enzyme Activity by DNA Binding- and Chi Hotspot-Dependent Conformational Changes. Journal of Molecular Biology, 2014, 426, 3479-3499.	4.2	38
59	CD4-Induced Activation in a Soluble HIV-1 Env Trimer. Structure, 2014, 22, 974-984.	3.3	108
60	Analysis of Overlapped and Noisy Hydrogen/Deuterium Exchange Mass Spectra. Journal of the American Society for Mass Spectrometry, 2013, 24, 1906-1912.	2.8	150
61	A Functional Interaction between gp41 and gp120 Is Observed for Monomeric but Not Oligomeric, Uncleaved HIV-1 Env gp140. Journal of Virology, 2013, 87, 11462-11475.	3.4	36
62	Capturing a Fusion Intermediate of Influenza Hemagglutinin with a Cholesterol-conjugated Peptide, a New Antiviral Strategy for Influenza Virus. Journal of Biological Chemistry, 2011, 286, 42141-42149.	3.4	72
63	Architecture of a nascent viral fusion pore. EMBO Journal, 2010, 29, 1299-1311.	7.8	120