

Devin Sok

List of Publications by Citations

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78
papers

7,935
citations

43
h-index

89
g-index

89
ext. papers

9,917
ext. citations

18
avg, IF

5.64
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 78 | Isolation of potent SARS-CoV-2 neutralizing antibodies and protection from disease in a small animal model. <i>Science</i> , 2020 , 369, 956-963 | 33.3 | 906 |
| 77 | Crystal structure of a soluble cleaved HIV-1 envelope trimer. <i>Science</i> , 2013 , 342, 1477-83 | 33.3 | 687 |
| 76 | Rational HIV immunogen design to target specific germline B cell receptors. <i>Science</i> , 2013 , 340, 711-6 | 33.3 | 519 |
| 75 | HIV-1 VACCINES. HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , 2015 , 349, aac4223 | 33.3 | 394 |
| 74 | Structural basis of a shared antibody response to SARS-CoV-2. <i>Science</i> , 2020 , 369, 1119-1123 | 33.3 | 338 |
| 73 | HIV-1 broadly neutralizing antibody precursor B cells revealed by germline-targeting immunogen. <i>Science</i> , 2016 , 351, 1458-63 | 33.3 | 266 |
| 72 | HIV-1 VACCINES. Priming a broadly neutralizing antibody response to HIV-1 using a germline-targeting immunogen. <i>Science</i> , 2015 , 349, 156-61 | 33.3 | 264 |
| 71 | Recombinant HIV envelope trimer selects for quaternary-dependent antibodies targeting the trimer apex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17624-9 | 11.5 | 239 |
| 70 | Broadly neutralizing antibody PGT121 allosterically modulates CD4 binding via recognition of the HIV-1 gp120 V3 base and multiple surrounding glycans. <i>PLoS Pathogens</i> , 2013 , 9, e1003342 | 7.6 | 235 |
| 69 | Elicitation of Robust Tier 2 Neutralizing Antibody Responses in Nonhuman Primates by HIV Envelope Trimer Immunization Using Optimized Approaches. <i>Immunity</i> , 2017 , 46, 1073-1088.e6 | 32.3 | 204 |
| 68 | Sequential Immunization Elicits Broadly Neutralizing Anti-HIV-1 Antibodies in Ig Knockin Mice. <i>Cell</i> , 2016 , 166, 1445-1458.e12 | 56.2 | 204 |
| 67 | Recent progress in broadly neutralizing antibodies to HIV. <i>Nature Immunology</i> , 2018 , 19, 1179-1188 | 19.1 | 186 |
| 66 | Tailored Immunogens Direct Affinity Maturation toward HIV Neutralizing Antibodies. <i>Cell</i> , 2016 , 166, 1459-1470.e11 | 56.2 | 178 |
| 65 | Holes in the Glycan Shield of the Native HIV Envelope Are a Target of Trimer-Elicited Neutralizing Antibodies. <i>Cell Reports</i> , 2016 , 16, 2327-38 | 10.6 | 163 |
| 64 | Isolation of potent neutralizing antibodies from a survivor of the 2014 Ebola virus outbreak. <i>Science</i> , 2016 , 351, 1078-83 | 33.3 | 153 |
| 63 | Promiscuous glycan site recognition by antibodies to the high-mannose patch of gp120 broadens neutralization of HIV. <i>Science Translational Medicine</i> , 2014 , 6, 236ra63 | 17.5 | 148 |
| 62 | Structural evolution of glycan recognition by a family of potent HIV antibodies. <i>Cell</i> , 2014 , 159, 69-79 | 56.2 | 147 |

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| 61 | A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic E-Hairpin Structure. <i>Immunity</i> , 2017 , 46, 690-702 | 32.3 | 146 |
| 60 | The effects of somatic hypermutation on neutralization and binding in the PGT121 family of broadly neutralizing HIV antibodies. <i>PLoS Pathogens</i> , 2013 , 9, e1003754 | 7.6 | 144 |
| 59 | Global site-specific N-glycosylation analysis of HIV envelope glycoprotein. <i>Nature Communications</i> , 2017 , 8, 14954 | 17.4 | 133 |
| 58 | Direct Probing of Germinal Center Responses Reveals Immunological Features and Bottlenecks for Neutralizing Antibody Responses to HIV Env Trimer. <i>Cell Reports</i> , 2016 , 17, 2195-2209 | 10.6 | 110 |
| 57 | Antibody-mediated protection against SHIV challenge includes systemic clearance of distal virus. <i>Science</i> , 2016 , 353, 1045-1049 | 33.3 | 107 |
| 56 | Priming HIV-1 broadly neutralizing antibody precursors in human Ig loci transgenic mice. <i>Science</i> , 2016 , 353, 1557-1560 | 33.3 | 106 |
| 55 | Murine Antibody Responses to Cleaved Soluble HIV-1 Envelope Trimers Are Highly Restricted in Specificity. <i>Journal of Virology</i> , 2015 , 89, 10383-98 | 6.6 | 105 |
| 54 | An HIV-1 antibody from an elite neutralizer implicates the fusion peptide as a site of vulnerability. <i>Nature Microbiology</i> , 2016 , 2, 16199 | 26.6 | 103 |
| 53 | Presenting native-like trimeric HIV-1 antigens with self-assembling nanoparticles. <i>Nature Communications</i> , 2016 , 7, 12041 | 17.4 | 101 |
| 52 | Rapid elicitation of broadly neutralizing antibodies to HIV by immunization in cows. <i>Nature</i> , 2017 , 548, 108-111 | 50.4 | 99 |
| 51 | A Prominent Site of Antibody Vulnerability on HIV Envelope Incorporates a Motif Associated with CCR5 Binding and Its Camouflaging Glycans. <i>Immunity</i> , 2016 , 45, 31-45 | 32.3 | 97 |
| 50 | Coexistence of potent HIV-1 broadly neutralizing antibodies and antibody-sensitive viruses in a viremic controller. <i>Science Translational Medicine</i> , 2017 , 9, | 17.5 | 96 |
| 49 | A generalized HIV vaccine design strategy for priming of broadly neutralizing antibody responses. <i>Science</i> , 2019 , 366, | 33.3 | 89 |
| 48 | Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018 , 9, 3693 | 17.4 | 87 |
| 47 | Uncleaved prefusion-optimized gp140 trimers derived from analysis of HIV-1 envelope metastability. <i>Nature Communications</i> , 2016 , 7, 12040 | 17.4 | 86 |
| 46 | Minimally Mutated HIV-1 Broadly Neutralizing Antibodies to Guide Reductionist Vaccine Design. <i>PLoS Pathogens</i> , 2016 , 12, e1005815 | 7.6 | 76 |
| 45 | Toward a more accurate view of human B-cell repertoire by next-generation sequencing, unbiased repertoire capture and single-molecule barcoding. <i>Scientific Reports</i> , 2014 , 4, 6778 | 4.9 | 70 |
| 44 | Neutralizing human monoclonal antibodies prevent Zika virus infection in macaques. <i>Science Translational Medicine</i> , 2017 , 9, | 17.5 | 69 |

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| 43 | Zika virus activates de novo and cross-reactive memory B cell responses in dengue-experienced donors. <i>Science Immunology</i> , 2017 , 2, | 28 | 68 |
| 42 | Two classes of broadly neutralizing antibodies within a single lineage directed to the high-mannose patch of HIV envelope. <i>Journal of Virology</i> , 2015 , 89, 1105-18 | 6.6 | 67 |
| 41 | Broadly neutralizing antibodies targeting the HIV-1 envelope V2 apex confer protection against a clade C SHIV challenge. <i>Science Translational Medicine</i> , 2017 , 9, | 17.5 | 65 |
| 40 | Incomplete Neutralization and Deviation from Sigmoidal Neutralization Curves for HIV Broadly Neutralizing Monoclonal Antibodies. <i>PLoS Pathogens</i> , 2015 , 11, e1005110 | 7.6 | 61 |
| 39 | Structure of 2G12 Fab2 in complex with soluble and fully glycosylated HIV-1 Env by negative-stain single-particle electron microscopy. <i>Journal of Virology</i> , 2014 , 88, 10177-88 | 6.6 | 53 |
| 38 | Mapping Polyclonal Antibody Responses in Non-human Primates Vaccinated with HIV Env Trimer Subunit Vaccines. <i>Cell Reports</i> , 2020 , 30, 3755-3765.e7 | 10.6 | 49 |
| 37 | Anti-HIV B Cell lines as candidate vaccine biosensors. <i>Journal of Immunology</i> , 2012 , 189, 4816-24 | 5.3 | 48 |
| 36 | HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018 , 4, eaau6769 | 14.3 | 43 |
| 35 | Lipid interactions and angle of approach to the HIV-1 viral membrane of broadly neutralizing antibody 10E8: Insights for vaccine and therapeutic design. <i>PLoS Pathogens</i> , 2017 , 13, e1006212 | 7.6 | 42 |
| 34 | Elicitation of Neutralizing Antibodies Targeting the V2 Apex of the HIV Envelope Trimer in a Wild-Type Animal Model. <i>Cell Reports</i> , 2017 , 21, 222-235 | 10.6 | 40 |
| 33 | Rapid and Focused Maturation of a VRC01-Class HIV Broadly Neutralizing Antibody Lineage Involves Both Binding and Accommodation of the N276-Glycan. <i>Immunity</i> , 2019 , 51, 141-154.e6 | 32.3 | 38 |
| 32 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. <i>PLoS Pathogens</i> , 2020 , 16, e1008753 | 7.6 | 37 |
| 31 | Rapid isolation of potent SARS-CoV-2 neutralizing antibodies and protection in a small animal model 2020 , | | 35 |
| 30 | Reprogramming the antigen specificity of B cells using genome-editing technologies. <i>ELife</i> , 2019 , 8, | 8.9 | 30 |
| 29 | Immunogenicity of RNA Replicons Encoding HIV Env Immunogens Designed for Self-Assembly into Nanoparticles. <i>Molecular Therapy</i> , 2019 , 27, 2080-2090 | 11.7 | 27 |
| 28 | Differential Antibody Responses to Conserved HIV-1 Neutralizing Epitopes in the Context of Multivalent Scaffolds and Native-Like gp140 Trimers. <i>MBio</i> , 2017 , 8, | 7.8 | 22 |
| 27 | Infection of monkeys by simian-human immunodeficiency viruses with transmitted/founder clade C HIV-1 envelopes. <i>Virology</i> , 2015 , 475, 37-45 | 3.6 | 21 |
| 26 | Targeting the HIV-1 Spike and Coreceptor with Bi- and Trispecific Antibodies for Single-Component Broad Inhibition of Entry. <i>Journal of Virology</i> , 2018 , 92, | 6.6 | 21 |

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| 25 | Structural basis of broad HIV neutralization by a vaccine-induced cow antibody. <i>Science Advances</i> , 2020 , 6, eaba0468 | 14.3 | 14 |
| 24 | Hidden Lineage Complexity of Glycan-Dependent HIV-1 Broadly Neutralizing Antibodies Uncovered by Digital Panning and Native-Like gp140 Trimer. <i>Frontiers in Immunology</i> , 2017 , 8, 1025 | 8.4 | 14 |
| 23 | Structural basis of a public antibody response to SARS-CoV-2 2020 , | | 14 |
| 22 | Fine epitope signature of antibody neutralization breadth at the HIV-1 envelope CD4-binding site. <i>JCI Insight</i> , 2018 , 3, | 9.9 | 12 |
| 21 | Mapping Neutralizing Antibody Epitope Specificities to an HIV Env Trimer in Immunized and in Infected Rhesus Macaques. <i>Cell Reports</i> , 2020 , 32, 108122 | 10.6 | 12 |
| 20 | Systems Biology Methods Applied to Blood and Tissue for a Comprehensive Analysis of Immune Response to Hepatitis B Vaccine in Adults. <i>Frontiers in Immunology</i> , 2020 , 11, 580373 | 8.4 | 8 |
| 19 | HIV Broadly Neutralizing Antibodies: Taking Good Care Of The 98. <i>Immunity</i> , 2016 , 45, 958-960 | 32.3 | 7 |
| 18 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates | | 7 |
| 17 | Mapping polyclonal antibody responses in non-human primates vaccinated with HIV Env trimer subunit vaccines | | 5 |
| 16 | Immunochemical engineering of cell surfaces to generate virus resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4655-4660 | 11.5 | 4 |
| 15 | A V1-69 antibody lineage from an infected Chinese donor potently neutralizes HIV-1 by targeting the V3 glycan supersite. <i>Science Advances</i> , 2020 , 6, | 14.3 | 4 |
| 14 | Broadening a SARS-CoV-1 neutralizing antibody for potent SARS-CoV-2 neutralization through directed evolution | | 3 |
| 13 | From structure to sequence: Antibody discovery using cryoEM.. <i>Science Advances</i> , 2022 , 8, eabk2039 | 14.3 | 2 |
| 12 | Mapping Neutralizing Antibody Epitope Specificities to an HIV Env Trimer in Immunized and in Infected Rhesus Macaques. <i>SSRN Electronic Journal</i> , | 1 | 1 |
| 11 | From Structure to Sequence: Identification of polyclonal antibody families using cryoEM | | 1 |
| 10 | Nature or nurture: Factors that influence bnAb development. <i>Cell Host and Microbe</i> , 2021 , 29, 540-542 | 23.4 | 1 |
| 9 | A combination of potently neutralizing monoclonal antibodies isolated from an Indian convalescent donor protects against the SARS-CoV-2 Delta variant.. <i>PLoS Pathogens</i> , 2022 , 18, e1010465 | 7.6 | 1 |
| 8 | Rapid cGMP manufacturing of COVID-19 monoclonal antibody using stable CHO cell pools. <i>Biotechnology and Bioengineering</i> , 2021 , 119, 663 | 4.9 | 0 |

- 7 Elicitation of potent serum neutralizing antibody responses in rabbits by immunization with an HIV-1 clade C trimeric Env derived from an Indian elite neutralizer. *PLoS Pathogens*, **2021**, 17, e1008977 7.6 ○
- 6 Highly mutated antibodies capable of neutralizing N276 glycan-deficient HIV after a single immunization with an Env trimer.. *Cell Reports*, **2022**, 38, 110485 10.6 ○
- 5 Neutralization diversity of HIV-1 Indian subtype C envelopes obtained from cross sectional and followed up individuals against broadly neutralizing monoclonal antibodies having distinct gp120 specificities. *Retrovirology*, **2021**, 18, 12 3.6
- 4 Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753
- 3 Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753
- 2 Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753
- 1 Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates **2020**, 16, e1008753