

# Gabriel Ozorowski

## List of Publications by Year in descending order

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81  
papers

7,598  
citations

81900  
39  
h-index

69250  
77  
g-index

95  
all docs

95  
docs citations

95  
times ranked

5878  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , 2015, 349, aac4223.   | 12.6 | 482       |
| 2  | Cryo-EM structure of a native, fully glycosylated, cleaved HIV-1 envelope trimer. <i>Science</i> , 2016, 351, 1043-1048.  | 12.6 | 402       |
| 3  | Immunogenicity of Stabilized HIV-1 Envelope Trimers with Reduced Exposure of Non-neutralizing Epitopes. <i>Cell</i> , 2015, 163, 1702-1715.   | 28.9 | 341       |
| 4  | HIV Vaccine Design to Target Germline Precursors of Glycan-Dependent Broadly Neutralizing Antibodies. <i>Immunity</i> , 2016, 45, 483-496.  | 14.3 | 335       |
| 5  | Fusion peptide of HIV-1 as a site of vulnerability to neutralizing antibody. <i>Science</i> , 2016, 352, 828-833.   | 12.6 | 310       |
| 6  | Maturation Pathway from Germline to Broad HIV-1 Neutralizer of a CD4-Mimic Antibody. <i>Cell</i> , 2016, 165, 449-463.  | 28.9 | 305       |
| 7  | Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate. <i>Science</i> , 2020, 370, 1089-1094.  | 12.6 | 290       |
| 8  | 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.                 | 14.3 | 286       |
| 9  | A Native-Like SOSIP.664 Trimer Based on an HIV-1 Subtype B <i>env</i> Gene. <i>Journal of Virology</i> , 2015, 89, 3380-3395.   | 3.4  | 247       |
| 10 | Tailored Immunogens Direct Affinity Maturation toward HIV Neutralizing Antibodies. <i>Cell</i> , 2016, 166, 1459-1470.e11.  | 28.9 | 230       |
| 11 | Open and closed structures reveal allostery and pliability in the HIV-1 envelope spike. <i>Nature</i> , 2017, 547, 360-363.   | 27.8 | 217       |
| 12 | Holes in the Glycan Shield of the Native HIV Envelope Are a Target of Trimer-Elicited Neutralizing Antibodies. <i>Cell Reports</i> , 2016, 16, 2327-2338.   | 6.4  | 216       |
| 13 | Extremely potent human monoclonal antibodies from COVID-19 convalescent patients. <i>Cell</i> , 2021, 184, 1821-1835.e16.   | 28.9 | 180       |
| 14 | A generalized HIV vaccine design strategy for priming of broadly neutralizing antibody responses. <i>Science</i> , 2019, 366, .   | 12.6 | 172       |
| 15 | Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. <i>Cell Reports</i> , 2017, 20, 1805-1817.  | 6.4  | 171       |
| 16 | Presenting native-like HIV-1 envelope trimers on ferritin nanoparticles improves their immunogenicity. <i>Retrovirology</i> , 2015, 12, 82.   | 2.0  | 156       |
| 17 | Design and crystal structure of a native-like HIV-1 envelope trimer that engages multiple broadly neutralizing antibody precursors in vivo. <i>Journal of Experimental Medicine</i> , 2017, 214, 2573-2590. | 8.5  | 151       |
| 18 | Murine Antibody Responses to Cleaved Soluble HIV-1 Envelope Trimers Are Highly Restricted in Specificity. <i>Journal of Virology</i> , 2015, 89, 10383-10398.   | 3.4  | 148       |

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|----|---|------|-----------|
| 19 | An HIV-1 antibody from an elite neutralizer implicates the fusion peptide as a site of vulnerability. <i>Nature Microbiology</i> , 2017, 2, 16199.  | 13.3 | 144       |
| 20 | Structure-based design of native-like HIV-1 envelope trimers to silence non-neutralizing epitopes and eliminate CD4 binding. <i>Nature Communications</i> , 2017, 8, 1655.  | 12.8 | 142       |
| 21 | 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       |
| 22 | Structural Constraints Determine the Glycosylation of HIV-1 Envelope Trimers. <i>Cell Reports</i> , 2015, 11, 1604-1613.  | 6.4  | 135       |
| 23 | Design and structure of two HIV-1 clade C SOSIP.664 trimers that increase the arsenal of native-like Env immunogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11947-11952. | 7.1  | 127       |
| 24 | Structure and immunogenicity of a stabilized HIV-1 envelope trimer based on a group-M consensus sequence. <i>Nature Communications</i> , 2019, 10, 2355.  | 12.8 | 116       |
| 25 | Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. <i>PLoS Pathogens</i> , 2018, 14, e1006913.  | 4.7  | 111       |
| 26 | Vaccination with Glycan-Modified HIV NFL Envelope Trimer-Liposomes Elicits Broadly Neutralizing Antibodies to Multiple Sites of Vulnerability. <i>Immunity</i> , 2019, 51, 915-929.e7.  | 14.3 | 111       |
| 27 | Comprehensive Antigenic Map of a Cleaved Soluble HIV-1 Envelope Trimer. <i>PLoS Pathogens</i> , 2015, 11, e1004767.   | 4.7  | 100       |
| 28 | Cross-protomer interaction with the photoactive site in oligomeric proteorhodopsin complexes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1965-1980.  | 2.5  | 95        |
| 29 | Isolation and characterization of cross-neutralizing coronavirus antibodies from COVID-19+ subjects. <i>Cell Reports</i> , 2021, 36, 109353.  | 6.4  | 95        |
| 30 | Influences on the Design and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers. <i>Journal of Virology</i> , 2015, 89, 12189-12210.  | 3.4  | 88        |
| 31 | Antibodies to a conformational epitope on gp41 neutralize HIV-1 by destabilizing the Env spike. <i>Nature Communications</i> , 2015, 6, 8167.   | 12.8 | 87        |
| 32 | Key gp120 Glycans Pose Roadblocks to the Rapid Development of VRC01-Class Antibodies in an HIV-1-Infected Chinese Donor. <i>Immunity</i> , 2016, 44, 939-950.   | 14.3 | 85        |
| 33 | Virus-like Particles Identify an HIV V1V2 Apex-Binding Neutralizing Antibody that Lacks a Protruding Loop. <i>Immunity</i> , 2017, 46, 777-791.e10.   | 14.3 | 81        |
| 34 | cGMP production and analysis of BG505 SOSIP.664, an extensively glycosylated, trimeric HIV-1 envelope glycoprotein vaccine candidate. <i>Biotechnology and Bioengineering</i> , 2018, 115, 885-899.                                   | 3.3  | 75        |
| 35 | HIV-1 vaccine design through minimizing envelope metastability. <i>Science Advances</i> , 2018, 4, eaau6769.  | 10.3 | 75        |
| 36 | Closing and Opening Holes in the Glycan Shield of HIV-1 Envelope Glycoprotein SOSIP Trimers Can Redirect the Neutralizing Antibody Response to the Newly Unmasked Epitopes. <i>Journal of Virology</i> , 2019, 93, .                  | 3.4  | 66        |

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|----|--|------|-----------|
| 37 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. PLoS Pathogens, 2020, 16, e1008753.   | 4.7  | 61        |
| 38 | Reducing V3 Antigenicity and Immunogenicity on Soluble, Native-Like HIV-1 Env SOSIP Trimers. Journal of Virology, 2017, 91, .  | 3.4  | 57        |
| 39 | Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. Journal of Virology, 2020, 94, .   | 3.4  | 57        |
| 40 | Rational Design of DNA-Expressed Stabilized Native-Like HIV-1 Envelope Trimers. Cell Reports, 2018, 24, 3324-3338.e5.  | 6.4  | 49        |
| 41 | Conformational Plasticity in the HIV-1 Fusion Peptide Facilitates Recognition by Broadly Neutralizing Antibodies. Cell Host and Microbe, 2019, 25, 873-883.e5.   | 11.0 | 42        |
| 42 | Env Exceptionalism: Why Are HIV-1 Env Glycoproteins Atypical Immunogens?. Cell Host and Microbe, 2020, 27, 507-518.  | 11.0 | 42        |
| 43 | Structural definition of a pan-sarbecovirus neutralizing epitope on the spike S2 subunit. Communications Biology, 2022, 5, 342.  | 4.4  | 41        |
| 44 | The Tetrameric Plant Lectin BanLec Neutralizes HIV through Bidentate Binding to Specific Viral Glycans. Structure, 2017, 25, 773-782.e5.   | 3.3  | 39        |
| 45 | Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike. Cell Reports, 2021, 35, 108933.  | 6.4  | 37        |
| 46 | Chemical Cross-Linking Stabilizes Native-Like HIV-1 Envelope Glycoprotein Trimer Antigens. Journal of Virology, 2016, 90, 813-828.   | 3.4  | 34        |
| 47 | Effects of Adjuvants on HIV-1 Envelope Glycoprotein SOSIP Trimers <i>In Vitro</i>. Journal of Virology, 2018, 92, .  | 3.4  | 34        |
| 48 | Immunofocusing and enhancing autologous Tier-2 HIV-1 neutralization by displaying Env trimers on two-component protein nanoparticles. Npj Vaccines, 2021, 6, 24.                                       | 6.0  | 33        |
| 49 | Structure and Recognition of a Novel HIV-1 gp120-gp41 Interface Antibody that Caused MPER Exposure through Viral Escape. PLoS Pathogens, 2017, 13, e1006074.   | 4.7  | 33        |
| 50 | The HIV-1 Envelope Glycoprotein C3/V4 Region Defines a Prevalent Neutralization Epitope following Immunization. Cell Reports, 2019, 27, 586-598.e6.  | 6.4  | 32        |
| 51 | N-terminal acetylation of annexin A2 is required for S100A10 binding. Biological Chemistry, 2012, 393, 1141-1150.  | 2.5  | 29        |
| 52 | Neutralizing Antibody Induction by HIV-1 Envelope Glycoprotein SOSIP Trimers on Iron Oxide Nanoparticles May Be Impaired by Mannose Binding Lectin. Journal of Virology, 2020, 94, .                   | 3.4  | 29        |
| 53 | Improving the Expression and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers by Targeted Sequence Changes. Journal of Virology, 2017, 91, .                       | 3.4  | 27        |
| 54 | Structural insights of a highly potent pan-neutralizing SARS-CoV-2 human monoclonal antibody. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120976119. | 7.1  | 27        |

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|----|---|------|-----------|
| 55 | Single-component multilayered self-assembling nanoparticles presenting rationally designed glycoprotein trimers as Ebola virus vaccines. <i>Nature Communications</i> , 2021, 12, 2633.   | 12.8 | 25        |
| 56 | Structure of a C-terminal AHNAK peptide in a 1:2:2 complex with S100A10 and an acetylated N-terminal peptide of annexin A2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 92-104.   | 2.5  | 24        |
| 57 | Stabilization of a soluble, native-like trimeric form of an efficiently cleaved Indian HIV-1 clade C envelope glycoprotein. <i>Journal of Biological Chemistry</i> , 2017, 292, 8236-8243.  | 3.4  | 24        |
| 58 | Withaferin A binds covalently to the N-terminal domain of annexin A2. <i>Biological Chemistry</i> , 2012, 393, 1151-1163.   | 2.5  | 23        |
| 59 | Integrity of Glycosylation Processing of a Glycan-Depleted Trimeric HIV-1 Immunogen Targeting Key B-Cell Lineages. <i>Journal of Proteome Research</i> , 2018, 17, 987-999.   | 3.7  | 23        |
| 60 | High-Throughput Protein Engineering Improves the Antigenicity and Stability of Soluble HIV-1 Envelope Glycoprotein SOSIP Trimers. <i>Journal of Virology</i> , 2017, 91, .  | 3.4  | 22        |
| 61 | 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.  | 4.8  | 21        |
| 62 | A Transporter Converted into a Sensor, a Phototaxis Signaling Mutant of Bacteriorhodopsin at 3.0Å... <i>Journal of Molecular Biology</i> , 2012, 415, 455-463.  | 4.2  | 18        |
| 63 | HIV envelope trimer-elicited autologous neutralizing antibodies bind a region overlapping the N332 glycan supersite. <i>Science Advances</i> , 2020, 6, eaba0512.   | 10.3 | 18        |
| 64 | From structure to sequence: Antibody discovery using cryoEM. <i>Science Advances</i> , 2022, 8, eabk2039.   | 10.3 | 18        |
| 65 | Apo and Calcium-Bound Crystal Structures of Cytoskeletal Protein Alpha-14 Giardin (Annexin E1) from the Intestinal Protozoan Parasite <i>Giardia lamblia</i> . <i>Journal of Molecular Biology</i> , 2009, 385, 1098-1112.  | 4.2  | 17        |
| 66 | Developability Assessment of Physicochemical Properties and Stability Profiles of HIV-1 BG505 SOSIP.664 and BG505 SOSIP.v4.1-GT1.1 gp140 Envelope Glycoprotein Trimers as Candidate Vaccine Antigens. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2264-2277. | 3.3  | 16        |
| 67 | The Glycan Hole Area of HIV-1 Envelope Trimers Contributes Prominently to the Induction of Autologous Neutralization. <i>Journal of Virology</i> , 2022, 96, JVI0155221.  | 3.4  | 13        |
| 68 | Engineering and Characterization of a Fluorescent Native-Like HIV-1 Envelope Glycoprotein Trimer. <i>Biomolecules</i> , 2015, 5, 2919-2934.   | 4.0  | 12        |
| 69 | Characterization of a stable HIV-1 B/C recombinant, soluble, and trimeric envelope glycoprotein (Env) highly resistant to CD4-induced conformational changes. <i>Journal of Biological Chemistry</i> , 2017, 292, 15849-15858.  | 3.4  | 12        |
| 70 | Envelope proteins of two HIV-1 clades induced different epitope-specific antibody response. <i>Vaccine</i> , 2018, 36, 1627-1636.   | 3.8  | 11        |
| 71 | Neutralizing Antibody Responses Induced by HIV-1 Envelope Glycoprotein SOSIP Trimers Derived from Elite Neutralizers. <i>Journal of Virology</i> , 2020, 94, .  | 3.4  | 11        |
| 72 | Field-Based Affinity Optimization of a Novel Azabicyclohexane Scaffold HIV-1 Entry Inhibitor. <i>Molecules</i> , 2019, 24, 1581.  | 3.8  | 8         |

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|----|---|-----|-----------|
| 73 | Neutralizing Antibodies Induced by First-Generation gp41-Stabilized HIV-1 Envelope Trimers and Nanoparticles. MBio, 2021, 12, e0042921.   | 4.1 | 6         |
| 74 | Structure-guided changes at the V2 apex of HIV-1 clade C trimer enhance elicitation of autologous neutralizing and broad V1V2-scaffold antibodies. Cell Reports, 2022, 38, 110436.                      | 6.4 | 6         |
| 75 | A Strain-Specific Inhibitor of Receptor-Bound HIV-1 Targets a Pocket near the Fusion Peptide. Cell Reports, 2020, 33, 108428.   | 6.4 | 5         |
| 76 | Harnessing Activin A Adjuvanticity to Promote Antibody Responses to BG505 HIV Envelope Trimers. Frontiers in Immunology, 2020, 11, 1213.  | 4.8 | 4         |
| 77 | 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. | 4.7 | 4         |
| 78 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753.  |     | 0         |
| 79 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753.  |     | 0         |
| 80 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753.  |     | 0         |
| 81 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753.  |     | 0         |