

# Gregory B Melikyan

## List of Publications by Year in descending order

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57  
papers

3,622  
citations

136950

32  
h-index

144013

57  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3698  
citing authors

#	ARTICLE	IF	CITATIONS
1	SERINC5 Restricts HIV-1 Infectivity by Promoting Conformational Changes and Accelerating Functional Inactivation of Env. <i>Viruses</i> , 2022, 14, 1388.	3.3	6
2	Interferon-Induced Transmembrane Protein 3 Blocks Fusion of Diverse Enveloped Viruses by Altering Mechanical Properties of Cell Membranes. <i>ACS Nano</i> , 2021, 15, 8155-8170.	14.6	50
3	Sec24C is an HIV-1 host dependency factor crucial for virus replication. <i>Nature Microbiology</i> , 2021, 6, 435-444.	13.3	48
4	Human Defensins Inhibit SARS-CoV-2 Infection by Blocking Viral Entry. <i>Viruses</i> , 2021, 13, 1246.	3.3	35
5	The late endosome-resident lipid bis(monoacylglycero)phosphate is a cofactor for Lassa virus fusion. <i>PLoS Pathogens</i> , 2021, 17, e1009488.	4.7	21
6	Structural and mechanistic bases for a potent HIV-1 capsid inhibitor. <i>Science</i> , 2020, 370, 360-364.	12.6	114
7	HIV-1 replication complexes accumulate in nuclear speckles and integrate into speckle-associated genomic domains. <i>Nature Communications</i> , 2020, 11, 3505.	12.8	93
8	HIV-1 Uncoating and Nuclear Import Precede the Completion of Reverse Transcription in Cell Lines and in Primary Macrophages. <i>Viruses</i> , 2020, 12, 1234.	3.3	35
9	Super-Resolution Fluorescence Imaging Reveals That Serine Incorporator Protein 5 Inhibits Human Immunodeficiency Virus Fusion by Disrupting Envelope Glycoprotein Clusters. <i>ACS Nano</i> , 2020, 14, 10929-10943.	14.6	45
10	Facile autofluorescence suppression enabling tracking of single viruses in live cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 19111-19118.	3.4	6
11	A Novel Phenotype Links HIV-1 Capsid Stability to cGAS-Mediated DNA Sensing. <i>Journal of Virology</i> , 2019, 93, .	3.4	30
12	HIV-1 Fusion with CD4+ T cells Is Promoted by Proteins Involved in Endocytosis and Intracellular Membrane Trafficking. <i>Viruses</i> , 2019, 11, 100.	3.3	13
13	Interferon-induced transmembrane protein 3 blocks fusion of sensitive but not resistant viruses by partitioning into virus-carrying endosomes. <i>PLoS Pathogens</i> , 2019, 15, e1007532.	4.7	78
14	HIV-1 integrase tetramers are the antiviral target of pyridine-based allosteric integrase inhibitors. <i>ELife</i> , 2019, 8, .	6.0	41
15	Single HIV-1 Imaging Reveals Progression of Infection through CA-Dependent Steps of Docking at the Nuclear Pore, Uncoating, and Nuclear Transport. <i>Cell Host and Microbe</i> , 2018, 23, 536-548.e6.	11.0	142
16	Live-Cell Imaging of Early Steps of Single HIV-1 Infection. <i>Viruses</i> , 2018, 10, 275.	3.3	31
17	Exploring Modifications of an HIV-1 Capsid Inhibitor: Design, Synthesis, and Mechanism of Action. , 2018, 5, .		21
18	SERINC5 protein inhibits HIV-1 fusion pore formation by promoting functional inactivation of envelope glycoproteins. <i>Journal of Biological Chemistry</i> , 2017, 292, 6014-6026.	3.4	113

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19	Screening and Functional Profiling of Small-Molecule HIV-1 Entry and Fusion Inhibitors. <i>Assay and Drug Development Technologies</i> , 2017, 15, 53-63.	1.2	6
20	pH regulation in early endosomes and interferon-inducible transmembrane proteins control avian retrovirus fusion. <i>Journal of Biological Chemistry</i> , 2017, 292, 7817-7827.	3.4	21
21	Correlated fluorescence microscopy and cryo-electron tomography of virus-infected or transfected mammalian cells. <i>Nature Protocols</i> , 2017, 12, 150-167.	12.0	109
22	How entry inhibitors synergize to fight HIV. <i>Journal of Biological Chemistry</i> , 2017, 292, 16511-16512.	3.4	10
23	An improved labeling strategy enables automated detection of single-virus fusion and assessment of HIV-1 protease activity in single virions. <i>Journal of Biological Chemistry</i> , 2017, 292, 20196-20207.	3.4	21
24	Fusion Stage of HIV-1 Entry Depends on Virus-Induced Cell Surface Exposure of Phosphatidylserine. <i>Cell Host and Microbe</i> , 2017, 22, 99-110.e7.	11.0	106
25	Siglec-1 initiates formation of the virus-containing compartment and enhances macrophage-to-T cell transmission of HIV-1. <i>PLoS Pathogens</i> , 2017, 13, e1006181.	4.7	79
26	Visualization of Content Release from Cell Surface-Attached Single HIV-1 Particles Carrying an Extra-Viral Fluorescent pH-Sensor. <i>PLoS ONE</i> , 2016, 11, e0148944.	2.5	18
27	Induction of Cell-Cell Fusion by Ebola Virus Glycoprotein: Low pH Is Not a Trigger. <i>PLoS Pathogens</i> , 2016, 12, e1005373.	4.7	34
28	Click labeling of unnatural sugars metabolically incorporated into viral envelope glycoproteins enables visualization of single particle fusion. <i>Journal of Virological Methods</i> , 2016, 233, 62-71.	2.1	12
29	Time-Resolved Imaging of Single HIV-1 Uncoating In Vitro and in Living Cells. <i>PLoS Pathogens</i> , 2016, 12, e1005709.	4.7	104
30	Fluorescent protein-tagged Vpr dissociates from HIV-1 core after viral fusion and rapidly enters the cell nucleus. <i>Retrovirology</i> , 2015, 12, 88.	2.0	37
31	Distinct Requirements for HIV-Cell Fusion and HIV-mediated Cell-Cell Fusion. <i>Journal of Biological Chemistry</i> , 2015, 290, 6558-6573.	3.4	38
32	Can HIV-1 Entry Sites Be Deduced by Comparing Bulk Endocytosis to Functional Readouts for Viral Fusion?. <i>Journal of Virology</i> , 2015, 89, 2985-2985.	3.4	13
33	P2X1 Receptor Antagonists Inhibit HIV-1 Fusion by Blocking Virus-Coreceptor Interactions. <i>Journal of Virology</i> , 2015, 89, 9368-9382.	3.4	23
34	High-Throughput HIV-Cell Fusion Assay for Discovery of Virus Entry Inhibitors. <i>Assay and Drug Development Technologies</i> , 2015, 13, 155-166.	1.2	31
35	IFITM3 Restricts Influenza A Virus Entry by Blocking the Formation of Fusion Pores following Virus-Endosome Hemifusion. <i>PLoS Pathogens</i> , 2014, 10, e1004048.	4.7	273
36	HIV entry: a game of hide-and-fuse?. <i>Current Opinion in Virology</i> , 2014, 4, 1-7.	5.4	97

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37	Pinpointing retrovirus entry sites in cells expressing alternatively spliced receptor isoforms by single virus imaging. <i>Retrovirology</i> , 2014, 11, 47.	2.0	16
38	Anionic Lipids Are Required for Vesicular Stomatitis Virus G Protein-mediated Single Particle Fusion with Supported Lipid Bilayers. <i>Journal of Biological Chemistry</i> , 2013, 288, 12416-12425.	3.4	46
39	Fusion of Mature HIV-1 Particles Leads to Complete Release of a Gag-GFP-Based Content Marker and Raises the Intraviral pH. <i>PLoS ONE</i> , 2013, 8, e71002.	2.5	49
40	Sub-Inhibitory Concentrations of Human $\alpha$ -defensin Potentiate Neutralizing Antibodies against HIV-1 gp41 Pre-Hairpin Intermediates in the Presence of Serum. <i>PLoS Pathogens</i> , 2013, 9, e1003431.	4.7	20
41	Synchronized Retrovirus Fusion in Cells Expressing Alternative Receptor Isoforms Releases the Viral Core into Distinct Sub-cellular Compartments. <i>PLoS Pathogens</i> , 2012, 8, e1002694.	4.7	24
42	Quantitative imaging of endosome acidification and single retrovirus fusion with distinct pools of early endosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17627-17632.	7.1	63
43	Multifaceted Mechanisms of HIV-1 Entry Inhibition by Human $\alpha$ -Defensin. <i>Journal of Biological Chemistry</i> , 2012, 287, 28821-28838.	3.4	74
44	Intercellular Adhesion Molecule 1 Promotes HIV-1 Attachment but Not Fusion to Target Cells. <i>PLoS ONE</i> , 2012, 7, e44827.	2.5	20
45	Hepatitis C Virus Is Primed by CD81 Protein for Low pH-dependent Fusion. <i>Journal of Biological Chemistry</i> , 2011, 286, 30361-30376.	3.4	87
46	Visualization of retrovirus uptake and delivery into acidic endosomes. <i>Biochemical Journal</i> , 2011, 434, 559-569.	3.7	35
47	Inhibition of HIV-1 endocytosis allows lipid mixing at the plasma membrane, but not complete fusion. <i>Retrovirology</i> , 2011, 8, 99.	2.0	89
48	Membrane Fusion Mediated by Human Immunodeficiency Virus Envelope Glycoprotein. <i>Current Topics in Membranes</i> , 2011, 68, 81-106.	0.9	57
49	Imaging Single Retrovirus Entry through Alternative Receptor Isoforms and Intermediates of Virus-Endosome Fusion. <i>PLoS Pathogens</i> , 2011, 7, e1001260.	4.7	55
50	Driving a wedge between viral lipids blocks infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17069-17070.	7.1	21
51	Early Steps of HIV-1 Fusion Define the Sensitivity to Inhibitory Peptides That Block 6-Helix Bundle Formation. <i>PLoS Pathogens</i> , 2009, 5, e1000585.	4.7	62
52	HIV Enters Cells via Endocytosis and Dynamin-Dependent Fusion with Endosomes. <i>Cell</i> , 2009, 137, 433-444.	28.9	579
53	Common principles and intermediates of viral protein-mediated fusion: the HIV-1 paradigm. <i>Retrovirology</i> , 2008, 5, 111.	2.0	146
54	The role of the N-terminal segment of CCR5 in HIV-1 Env-mediated membrane fusion and the mechanism of virus adaptation to CCR5 lacking this segment. <i>Retrovirology</i> , 2007, 4, 55.	2.0	14

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55	Membrane-Anchored Inhibitory Peptides Capture Human Immunodeficiency Virus Type 1 gp41 Conformations That Engage the Target Membrane prior to Fusion. <i>Journal of Virology</i> , 2006, 80, 3249-3258.	3.4	48
56	Imaging individual retroviral fusion events: From hemifusion to pore formation and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8728-8733.	7.1	94
57	Ternary Complex Formation of Human Immunodeficiency Virus Type 1 Env, CD4, and Chemokine Receptor Captured as an Intermediate of Membrane Fusion. <i>Journal of Virology</i> , 2005, 79, 11161-11169.	3.4	53