Gregory A Smith

List of Publications by Year
in descending order

56 papers	4,551 citations	117625 34 h-index	149698 56 g-index
61 all docs	61 docs citations	61 times ranked	4089 citing authors

#	Article	IF	Citations
1	En Passant Mutagenesis: A Two Step Markerless Red Recombination System. Methods in Molecular Biology, 2010, 634, 421-430.	0.9	519
2	Functional Integration of Adult-Born Neurons. Current Biology, 2002, 12, 606-608.	3.9	268
3	Expression and phosphorylation of the Listeria monocytogenes ActA protein in mammalian cells.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 11890-11894.	7.1	263
4	Construction of a Self-Excisable Bacterial Artificial Chromosome Containing the Human Cytomegalovirus Genome and Mutagenesis of the Diploid TRL/IRL13 Gene. Journal of Virology, 2002, 76, 2316-2328.	3.4	230
5	Construction and Transposon Mutagenesis in <i>Escherichia coli</i> of a Full-Length Infectious Clone of Pseudorabies Virus, an Alphaherpesvirus. Journal of Virology, 1999, 73, 6405-6414.	3.4	225
6	The tandem repeat domain in the Listeria monocytogenes ActA protein controls the rate of actin-based motility, the percentage of moving bacteria, and the localization of vasodilator-stimulated phosphoprotein and profilin.. Journal of Cell Biology, 1996, 135, 647-660.	5.2	202
7	A self-recombining bacterial artificial chromosome and its application for analysis of herpesvirus pathogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4873-4878.	7.1	189
8	Targeting of herpesvirus capsid transport in axons is coupled to association with specific sets of tegument proteins. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5832-5837.	7.1	187
9	Herpesvirus Transport to the Nervous System and Back Again. Annual Review of Microbiology, 2012, 66, 153-176.	7.3	163
10	Retrograde Axon Transport of Herpes Simplex Virus and Pseudorabies Virus: a Live-Cell Comparative Analysis. Journal of Virology, 2010, 84, 1504-1512.	3.4	154
11	Break Ins and Break Outs: Viral Interactions with the Cytoskeleton of Mammalian Cells. Annual Review of Cell and Developmental Biology, 2002, 18, 135-161.	9.4	147
12	Local modulation of plus-end transport targets herpesvirus entry and egress in sensory axons. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16034-16039.	7.1	135
13	Asymmetric distribution of the Listeria monocytogenes ActA protein is required and sufficient to direct actin-based motility. Molecular Microbiology, 1995, 17, 945-951.	2.5	130
14	The Capsid and Tegument of the Alphaherpesviruses Are Linked by an Interaction between the UL25 and VP1/2 Proteins. Journal of Virology, 2007, 81, 11790-11797.	3.4	119
15	The Herpesvirus VP1/2 Protein Is an Effector of Dynein-Mediated Capsid Transport and Neuroinvasion. Cell Host and Microbe, 2013, 13, 193-203.	11.0	111
16	Sorting and Transport of Alpha Herpesviruses in Axons. Traffic, 2001, 2, 429-436.	2.7	108
17	Inborn Errors of RNA Lariat Metabolism in Humans with Brainstem Viral Infection. Cell, 2018, 172, 952-965.e18.	28.9	92
18	Directional spread of an Î±-herpesvirus in the nervous system. Veterinary Microbiology, 2002, 86, 5-16.	1.9	83

#	Article	IF	Citations
19	Human SNORA31 variations impair cortical neuron-intrinsic immunity to HSV-1 and underlie herpes simplex encephalitis. Nature Medicine, 2019, 25, 1873-1884.	30.7	76
20	Resolving the Assembly State of Herpes Simplex Virus during Axon Transport by Live-Cell Imaging. Journal of Virology, 2010, 84, 13019-13030.	3.4	71
21	The Herpesvirus Capsid Surface Protein, VP26, and the Majority of the Tegument Proteins Are Dispensable for Capsid Transport toward the Nucleus. Journal of Virology, 2006, 80, 5494-5498.	3.4	69
22	Two Modes of Herpesvirus Trafficking in Neurons: Membrane Acquisition Directs Motion. Journal of Virology, 2006, 80, 11235-11240.	3.4	66
23	TLR3 controls constitutive IFN-Î² antiviral immunity in human fibroblasts and cortical neurons. Journal of Clinical Investigation, 2021, 131, .	8.2	64
24	Human iPSC-derived trigeminal neurons lack constitutive TLR3-dependent immunity that protects cortical neurons from HSV-1 infection. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8775-E8782.	7.1	58
25	The pUL37 tegument protein guides alpha-herpesvirus retrograde axonal transport to promote neuroinvasion. PLoS Pathogens, 2017, 13, e1006741.	4.7	57
26	Two Viral Kinases are Required for Sustained Long Distance Axon Transport of a Neuroinvasive Herpesvirus. Traffic, 2008, 9, 1458-1470.	2.7	52
27	Gene Expression Profiling with Cre-Conditional Pseudorabies Virus Reveals a Subset of Midbrain Neurons That Participate in Reward Circuitry. Journal of Neuroscience, 2017, 37, 4128-4144.	3.6	47
28	How the Listeria monocytogenes ActA protein converts actin polymerization into a motile force. Trends in Microbiology, 1997, 5, 272-276.	7.7	45
29	A Physical Link between the Pseudorabies Virus Capsid and the Nuclear Egress Complex. Journal of Virology, 2011, 85, 11675-11684.	3.4	45
30	Nuclear Egress of Pseudorabies Virus Capsids Is Enhanced by a Subspecies of the Large Tegument Protein That Is Lost upon Cytoplasmic Maturation. Journal of Virology, 2012, 86, 6303-6314.	3.4	44
31	Dynamic ubiquitination drives herpesvirus neuroinvasion. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12818-12823.	7.1	42
32	A Herpesvirus Encoded Deubiquitinase Is a Novel Neuroinvasive Determinant. PLoS Pathogens, 2009, 5, e1000387.	4.7	37
33	Crystal Structure of the Herpesvirus Inner Tegument Protein UL37 Supports Its Essential Role in Control of Viral Trafficking. Journal of Virology, 2014, 88, 5462-5473.	3.4	37
34	The kinase activity of pseudorabies virus US3 is required for modulation of the actin cytoskeleton. Virology, 2009, 385, 155-160.	2.4	34
35	Fusion of a fluorescent protein to the pUL25 minor capsid protein of pseudorabies virus allows live-cell capsid imaging with negligible impact on infection. Journal of General Virology, 2012, 93, 124-129.	2.9	34
36	Alphaherpesviruses and the Cytoskeleton in Neuronal Infections. Viruses, 2011, 3, 941-981.	3.3	33

#	Article	IF	Citations
37	The C Terminus of the Herpes Simplex Virus UL25 Protein Is Required for Release of Viral Genomes from Capsids Bound to Nuclear Pores. Journal of Virology, 2017, 91, .	3.4	30
38	Circuit organization of the excitatory sensorimotor loop through hand/forelimb S1 and M1. ELife, 2021, 10, .	6.0	30
39	A pUL25 dimer interfaces the pseudorabies virus capsid and tegument. Journal of General Virology, 2017, 98, 2837-2849.	2.9	27
40	Cloning and characterization of a gene encoding extracellular metalloprotease from Streptomyces lividans. Gene, 1992, 111, 125-130.	2.2	26
41	Herpesviruses assimilate kinesin to produce motorized viral particles. Nature, 2021, 599, 662-666.	27.8	26
42	Pseudorabies Virus Fast Axonal Transport Occurs by a pUS9-Independent Mechanism. Journal of Virology, 2015, 89, 8088-8091.	3.4	25
43	Assembly and Egress of an Alphaherpesvirus Clockwork. Advances in Anatomy, Embryology and Cell Biology, 2017, 223, 171-193.	1.6	21
44	Deciphering Human Cell-Autonomous Anti-HSV-1 Immunity in the Central Nervous System. Frontiers in Immunology, 2015, 6, 208.	4.8	19
45	The R2 non-neuroinvasive HSV-1 vaccine affords protection from genital HSV-2 infections in a guinea pig model. Npj Vaccines, 2020, 5, 104.	6.0	16
46	New tools to convert bacterial artificial chromosomes to a self-excising design and their application to a herpes simplex virus type 1 infectious clone. BMC Biotechnology, 2016, 16, 64.	3.3	15
47	The pseudorabies virus protein, pUL56, enhances virus dissemination and virulence but is dispensable for axonal transport. Virology, 2016, 488, 179-186.	2.4	14
48	Devious devices of Salmonella. Nature, 1992, 357, 536-537.	27.8	10
49	Escherichia coli gets a new virus but it's nothing to sneeze at. Trends in Biotechnology, 2003, 21, 106-108.	9.3	10
50	Visualizing Herpesvirus Procapsids in Living Cells. Journal of Virology, 2016, 90, 10182-10192.	3.4	10
51	The Herpes Simplex Virus 1 Deamidase Enhances Propagation but Is Dispensable for Retrograde Axonal Transport into the Nervous System. Journal of Virology, 2019, 93, .	3.4	9
52	Dissecting the Herpesvirus Architecture by Targeted Proteolysis. Journal of Virology, 2018, 92, .	3.4	7
53	Navigating the Cytoplasm: Delivery of the Alphaherpesvirus Genome to the Nucleus. Current Issues in Molecular Biology, 2021, 41, 171-220.	2.4	7
54	The Apical Region of the Herpes Simplex Virus Major Capsid Protein Promotes Capsid Maturation. Journal of Virology, 2018, 92, .	3.4	4

#	Article	IF	Citations
55	The pseudorabies virus R2 non-neuroinvasive vaccine: A proof-of-concept study in pigs. Vaccine, 2020, 38, 4524-4528.	3.8	4
56	Bovine Herpesvirus 1 Invasion of Sensory Neurons by Retrograde Axonal Transport Is Dependent on the pUL37 Region 2 Effector. Journal of Virology, 2022, 96, e0148621.	3.4	2