Shannan L Rossi

List of Publications by Year
in descending order

79 papers	5,361 citations	109321 35 h-index	88630 70 g-index
80 all docs	80 docs citations	80 times ranked	7228 citing authors

#	Article	IF	Citations
1	A Screen of FDA-Approved Drugs for Inhibitors of Zika Virus Infection. Cell Host and Microbe, 2016, 20, 259-270.	11.0	420
2	Characterization of a Novel Murine Model to Study Zika Virus. American Journal of Tropical Medicine and Hygiene, 2016, 94, 1362-1369.	1.4	417
3	An Infectious cDNA Clone of Zika Virus to Study Viral Virulence, Mosquito Transmission, and Antiviral Inhibitors. Cell Host and Microbe, 2016, 19, 891-900.	11.0	252
4	A live-attenuated Zika virus vaccine candidate induces sterilizing immunity in mouse models. Nature Medicine, 2017, 23, 763-767.	30.7	242
5	Vaccine Mediated Protection Against Zika Virus-Induced Congenital Disease. Cell, 2017, 170, 273-283.e12.	28.9	224
6	Impact of preexisting dengue immunity on Zika virus emergence in a dengue endemic region. Science, 2019, 363, 607-610.	12.6	202
7	Multi-peaked adaptive landscape for chikungunya virus evolution predicts continued fitness optimization in Aedes albopictus mosquitoes. Nature Communications, 2014, 5, 4084.	12.8	179
8	Outbreak of Zika Virus Infection, Chiapas State, Mexico, 2015, and First Confirmed Transmission by<i>Aedes aegypti</i>Mosquitoes in the Americas. Journal of Infectious Diseases, 2016, 214, 1349-1356.	4.0	173
9	Negevirus: a Proposed New Taxon of Insect-Specific Viruses with Wide Geographic Distribution. Journal of Virology, 2013, 87, 2475-2488.	3.4	166
10	West Nile Virus. Clinics in Laboratory Medicine, 2010, 30, 47-65.	1.4	156
11	Fever versus fever: The role of host and vector susceptibility and interspecific competition in shaping the current and future distributions of the sylvatic cycles of dengue virus and yellow fever virus. Infection, Genetics and Evolution, 2013, 19, 292-311.	2.3	152
12	Variation in<i>Aedes aegypti</i>Mosquito Competence for Zika Virus Transmission. Emerging Infectious Diseases, 2017, 23, 625-632.	4.3	147
13	Mosquitoes Put the Brake on Arbovirus Evolution: Experimental Evolution Reveals Slower Mutation Accumulation in Mosquito Than Vertebrate Cells. PLoS Pathogens, 2009, 5, e1000467.	4.7	146
14	Attenuation of Chikungunya Virus Vaccine Strain 181/Clone 25 Is Determined by Two Amino Acid Substitutions in the E2 Envelope Glycoprotein. Journal of Virology, 2012, 86, 6084-6096.	3.4	142
15	A single-dose live-attenuated vaccine prevents Zika virus pregnancy transmission and testis damage. Nature Communications, 2017, 8, 676.	12.8	125
16	Functional Analysis of Glycosylation of Zika Virus Envelope Protein. Cell Reports, 2017, 21, 1180-1190.	6.4	118
17	Differential Responses of Human Fetal Brain Neural Stem Cells to Zika Virus Infection. Stem Cell Reports, 2017, 8, 715-727.	4.8	115
18	Engineered Aedes aegypti JAK/STAT Pathway-Mediated Immunity to Dengue Virus. PLoS Neglected Tropical Diseases, 2017, 11, e0005187.	3.0	110

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19	A chikungunya fever vaccine utilizing an insect-specific virus platform. Nature Medicine, 2017, 23, 192-199.	30.7	105
20	Zika in the Americas, year 2: What have we learned? What gaps remain? A report from the Global Virus Network. Antiviral Research, 2017, 144, 223-246.	4.1	104
21	Outcomes of Congenital Zika Disease Depend on Timing of Infection and Maternal-Fetal Interferon Action. Cell Reports, 2017, 21, 1588-1599.	6.4	83
22	Envelope protein ubiquitination drives entry and pathogenesis of Zika virus. Nature, 2020, 585, 414-419.	27.8	82
23	Chikungunya Virus Strains Show Lineage-Specific Variations in Virulence and Cross-Protective Ability in Murine and Nonhuman Primate Models. MBio, 2018, 9, .	4.1	79
24	Understanding Zika Virus Stability and Developing a Chimeric Vaccine through Functional Analysis. MBio, 2017, 8, .	4.1	76
25	Differential Vector Competency of Aedes albopictus Populations from the Americas for Zika Virus. American Journal of Tropical Medicine and Hygiene, 2017, 97, 330-339.	1.4	72
26	Adaptation of West Nile virus replicons to cells in culture and use of replicon-bearing cells to probe antiviral action. Virology, 2005, 331, 457-470.	2.4	62
27	Early Production of Type I Interferon during West Nile Virus Infection: Role for Lymphoid Tissues in IRF3-Independent Interferon Production. Journal of Virology, 2007, 81, 9100-9108.	3.4	59
28	Insect-Specific Viruses. Advances in Virus Research, 2017, 98, 119-146.	2.1	58
29	A Zika virus envelope mutation preceding the 2015 epidemic enhances virulence and fitness for transmission. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20190-20197.	7.1	53
30	Viral Retinopathy in Experimental Models of Zika Infection. , 2017, 58, 4355.		50
31	Peptidoglycan-Associated Cyclic Lipopeptide Disrupts Viral Infectivity. Journal of Virology, 2019, 93, .	3.4	47
32	A Single-Dose Live-Attenuated Zika Virus Vaccine with Controlled Infection Rounds that Protects against Vertical Transmission. Cell Host and Microbe, 2018, 24, 487-499.e5.	11.0	46
33	Immunogenicity and Efficacy of a Measles Virus-Vectored Chikungunya Vaccine in Nonhuman Primates. Journal of Infectious Diseases, 2019, 220, 735-742.	4.0	45
34	Did Zika Virus Mutate to Cause Severe Outbreaks?. Trends in Microbiology, 2018, 26, 877-885.	7.7	43
35	Mutations in West Nile virus nonstructural proteins that facilitate replicon persistence in vitro attenuate virus replication in vitro and in vivo. Virology, 2007, 364, 184-195.	2.4	41
36	A cDNA Clone-Launched Platform for High-Yield Production of Inactivated Zika Vaccine. EBioMedicine, 2017, 17, 145-156.	6.1	39

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37	Extended Preclinical Safety, Efficacy and Stability Testing of a Live-attenuated Chikungunya Vaccine Candidate. PLoS Neglected Tropical Diseases, 2015, 9, e0004007.	3.0	39
38	Experimental Zika Virus Infection of Neotropical Primates. American Journal of Tropical Medicine and Hygiene, 2018, 98, 173-177.	1.4	38
39	The Role of Innate versus Adaptive Immune Responses in a Mouse Model of O'Nyong-Nyong Virus Infection. American Journal of Tropical Medicine and Hygiene, 2013, 88, 1170-1179.	1.4	37
40	Zika Virus Vector Competency of Mosquitoes, Gulf Coast, United States. Emerging Infectious Diseases, 2017, 23, 559-560.	4.3	37
41	Fragile X mental retardation protein is a Zika virus restriction factor that is antagonized by subgenomic flaviviral RNA. ELife, 2018, 7, .	6.0	37
42	IRES-based Venezuelan equine encephalitis vaccine candidate elicits protective immunity in mice. Virology, 2013, 437, 81-88.	2.4	35
43	Effects of Chikungunya virus immunity on Mayaro virus disease and epidemic potential. Scientific Reports, 2019, 9, 20399.	3.3	35
44	IRES-Containing VEEV Vaccine Protects Cynomolgus Macaques from IE Venezuelan Equine Encephalitis Virus Aerosol Challenge. PLoS Neglected Tropical Diseases, 2015, 9, e0003797.	3.0	33
45	A single dose of ChAdOx1 Chik vaccine induces neutralizing antibodies against four chikungunya virus lineages in a phase 1 clinical trial. Nature Communications, 2021, 12, 4636.	12.8	31
46	Modeling Zika Virus Infection in Mice. Cell Stem Cell, 2016, 19, 4-6.	11.1	30
47	â€œSubmergenceâ€• of Western equine encephalitis virus: Evidence of positive selection argues against genetic drift and fitness reductions. PLoS Pathogens, 2020, 16, e1008102.	4.7	30
48	Epidemic Alphaviruses: Ecology, Emergence and Outbreaks. Microorganisms, 2020, 8, 1167.	3.6	28
49	Role of microglia in the dissemination of Zika virus from mother to fetal brain. PLoS Neglected Tropical Diseases, 2020, 14, e0008413.	3.0	27
50	Host oxidative folding pathways offer novel anti-chikungunya virus drug targets with broad spectrum potential. Antiviral Research, 2017, 143, 246-251.	4.1	26
51	Emergence potential of sylvatic dengue virus type 4 in the urban transmission cycle is restrained by vaccination and homotypic immunity. Virology, 2013, 439, 34-41.	2.4	24
52	IRES-driven Expression of the Capsid Protein of the Venezuelan Equine Encephalitis Virus TC-83 Vaccine Strain Increases Its Attenuation and Safety. PLoS Neglected Tropical Diseases, 2013, 7, e2197.	3.0	24
53	Unusual clinical manifestations of dengue disease â€“ Real or imagined?. Acta Tropica, 2019, 199, 105134.	2.0	24
54	Zika virus infection elicits auto-antibodies to C1q. Scientific Reports, 2018, 8, 1882.	3.3	21

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55	A Single and Un-Adjuvanted Dose of a Chimpanzee Adenovirus-Vectored Vaccine against Chikungunya Virus Fully Protects Mice from Lethal Disease. Pathogens, 2019, 8, 231.	2.8	21
56	Adenoviral-Vectored Mayaro and Chikungunya Virus Vaccine Candidates Afford Partial Cross-Protection From Lethal Challenge in A129 Mouse Model. Frontiers in Immunology, 2020, 11, 591885.	4.8	19
57	SARS-CoV-2 Infects Hamster Testes. Microorganisms, 2021, 9, 1318.	3.6	19
58	Venezuelan equine encephalitis vaccine with rearranged genome resists reversion and protects non-human primates from viremia after aerosol challenge. Vaccine, 2020, 38, 3378-3386.	3.8	18
59	An adjuvanted adenovirus 5-based vaccine elicits neutralizing antibodies and protects mice against chikungunya virus-induced footpad swelling. Vaccine, 2019, 37, 3146-3150.	3.8	13
60	Peli1 signaling blockade attenuates congenital zika syndrome. PLoS Pathogens, 2020, 16, e1008538.	4.7	13
61	Support for the Transmission-Clearance Trade-Off Hypothesis from a Study of Zika Virus Delivered by Mosquito Bite to Mice. Viruses, 2019, 11, 1072.	3.3	11
62	Old Drugs with New Tricks: Efficacy of Fluoroquinolones to Suppress Replication of Flaviviruses. Viruses, 2020, 12, 1022.	3.3	11
63	Chikungunya Outbreaks in India: A Prospective Study Comparing Neutralization and Sequelae during Two Outbreaks in 2010 and 2016. American Journal of Tropical Medicine and Hygiene, 2020, 102, 857-868.	1.4	11
64	ZIKV Demonstrates Minimal Pathologic Effects and Mosquito Infectivity in Viremic Cynomolgus Macaques. Viruses, 2018, 10, 661.	3.3	9
65	Increased talinâ€“vinculin spatial proximities in livers in response to spotted fever group rickettsial and Ebola virus infections. Laboratory Investigation, 2020, 100, 1030-1041.	3.7	8
66	Rationally Attenuated Vaccines for Venezuelan Equine Encephalitis Protect Against Epidemic Strains with a Single Dose. Vaccines, 2020, 8, 497.	4.4	6
67	Intracellular receptor EPAC regulates von Willebrand factor secretion from endothelial cells in a PI3K-/eNOS-dependent manner during inflammation. Journal of Biological Chemistry, 2021, 297, 101315.	3.4	5
68	Designing multivalent immunogens for alphavirus vaccine optimization. Virology, 2021, 561, 117-124.	2.4	3
69	Aedes aegypti Shows Increased Susceptibility to Zika Virus via Both In Vitro and In Vivo Models of Type II Diabetes. Viruses, 2022, 14, 665.	3.3	3
70	Age and Sex in the Zika Pandemic Era. Journal of Infectious Diseases, 2018, 217, 1675-1677.	4.0	2
71	Venezuelan Equine Encephalitis Virus V3526 Vaccine RNA-Dependent RNA Polymerase Mutants Increase Vaccine Safety Through Restricted Tissue Tropism in a Mouse Model. Zoonoses, 2022, 2, .	1.1	1
72	Zika Virus (Flaviviridae). , 2021, , 899-909.		0

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73	Animal Models of Zika Virus Sexual Transmission. , 0, , .		0
74	Role of microglia in the dissemination of Zika virus from mother to fetal brain. , 2020, 14, e0008413.		0
75	Role of microglia in the dissemination of Zika virus from mother to fetal brain. , 2020, 14, e0008413.		0
76	Role of microglia in the dissemination of Zika virus from mother to fetal brain. , 2020, 14, e0008413.		0
77	Role of microglia in the dissemination of Zika virus from mother to fetal brain. , 2020, 14, e0008413.		0
78	Role of microglia in the dissemination of Zika virus from mother to fetal brain. , 2020, 14, e0008413.		0
79	Role of microglia in the dissemination of Zika virus from mother to fetal brain. , 2020, 14, e0008413.		0