Jan E Carette

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4879215/publications.pdf

Version: 2024-02-01

95 papers	9,954 citations	50566 48 h-index	46524 93 g-index
109 all docs	109 docs citations	109 times ranked	18395 citing authors

#	Article	IF	Citations
1	Loquacious modulates flaviviral RNA replication in mosquito cells. PLoS Pathogens, 2022, 18, e1010163.	2.1	3
2	Genetic Screens Identify Host Factors for SARS-CoV-2 and Common Cold Coronaviruses. Cell, 2021, 184, 106-119.e14.	13.5	320
3	Return of the Neurotropic Enteroviruses: Co-Opting Cellular Pathways for Infection. Viruses, 2021, 13, 166.	1.5	8
4	Improved Genome Editing through Inhibition of FANCM and Members of the BTR Dissolvase Complex. Molecular Therapy, 2021, 29, 1016-1027.	3.7	7
5	Discovery and functional interrogation of SARS-CoV-2 RNA-host protein interactions. Cell, 2021, 184, 2394-2411.e16.	13.5	141
6	Small RNAs are modified with N-glycans and displayed on the surface of living cells. Cell, 2021, 184, 3109-3124.e22.	13.5	260
7	Inhibitor of growth protein 3 epigenetically silences endogenous retroviral elements and prevents innate immune activation. Nucleic Acids Research, 2021, 49, 12706-12715.	6.5	4
8	Lipid droplets can promote drug accumulation and activation. Nature Chemical Biology, 2020, 16, 206-213.	3.9	45
9	GPR108 Is a Highly Conserved AAV Entry Factor. Molecular Therapy, 2020, 28, 367-381.	3.7	77
10	Necroptosis-based CRISPR knockout screen reveals Neuropilin-1 as a critical host factor for early stages of murine cytomegalovirus infection. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20109-20116.	3.3	25
11	ATRAID regulates the action of nitrogen-containing bisphosphonates on bone. Science Translational Medicine, 2020, 12, .	5.8	15
12	A memory of eS25 loss drives resistance phenotypes. Nucleic Acids Research, 2020, 48, 7279-7297.	6.5	4
13	Conserved Oligomeric Golgi (COG) Complex Proteins Facilitate Orthopoxvirus Entry, Fusion and Spread. Viruses, 2020, 12, 707.	1.5	16
14	Structural and cellular biology of adeno-associated virus attachment and entry. Advances in Virus Research, 2020, 106, 39-84.	0.9	20
15	Enhancing the Antiviral Efficacy of RNA-Dependent RNA Polymerase Inhibition by Combination with Modulators of Pyrimidine Metabolism. Cell Chemical Biology, 2020, 27, 668-677.e9.	2.5	23
16	R-spondins engage heparan sulfate proteoglycans to potentiate WNT signaling. ELife, 2020, 9, .	2.8	37
17	Cracking the cell access code for the deadly virus VEEV. Nature, 2020, 588, 223-224.	13.7	0
18	Identification of the Cell-Surface Protease ADAM9 as an Entry Factor for Encephalomyocarditis Virus. MBio, 2019, 10, .	1.8	15

#	Article	IF	Citations
19	Capsid Engineering Overcomes Barriers Toward Adeno-Associated Virus Vector-Mediated Transduction of Endothelial Cells. Human Gene Therapy, 2019, 30, 1284-1296.	1.4	23
20	GluA4-Targeted AAV Vectors Deliver Genes Selectively to Interneurons while Relying on the AAV Receptor for Entry. Molecular Therapy - Methods and Clinical Development, 2019, 14, 252-260.	1.8	17
21	An RNA-centric dissection of host complexes controlling flavivirus infection. Nature Microbiology, 2019, 4, 2369-2382.	5.9	79
22	A Genome-wide Haploid Genetic Screen Identifies Regulators of Glutathione Abundance and Ferroptosis Sensitivity. Cell Reports, 2019, 26, 1544-1556.e8.	2.9	146
23	Impact of a patient-derived hepatitis C viral RNA genome with a mutated microRNA binding site. PLoS Pathogens, 2019, 15, e1007467.	2.1	13
24	Direct Activation of Human MLKL by a Select Repertoire of Inositol Phosphate Metabolites. Cell Chemical Biology, 2019, 26, 863-877.e7.	2.5	38
25	Discovery of gene regulatory elements through a new bioinformatics analysis of haploid genetic screens. PLoS ONE, 2019, 14, e0198463.	1.1	0
26	Enterovirus pathogenesis requires the host methyltransferase SETD3. Nature Microbiology, 2019, 4, 2523-2537.	5.9	51
27	Differential and convergent utilization of autophagy components by positive-strand RNA viruses. PLoS Biology, 2019, 17, e2006926.	2.6	71
28	SETD3 is an actin histidine methyltransferase that prevents primary dystocia. Nature, 2019, 565, 372-376.	13.7	116
29	KREMEN1 Is a Host Entry Receptor for a Major Group of Enteroviruses. Cell Host and Microbe, 2018, 23, 636-643.e5.	5.1	69
30	STAG2 deficiency induces interferon responses via cGAS-STING pathway and restricts virus infection. Nature Communications, 2018, 9, 1485.	5.8	68
31	RNAâ€“protein interaction detection in living cells. Nature Methods, 2018, 15, 207-212.	9.0	234
32	An Alternate Route for Adeno-associated Virus (AAV) Entry Independent of AAV Receptor. Journal of Virology, 2018, 92, .	1.5	77
33	A Dock-and-Lock Mechanism Clusters ADAM10 at Cell-Cell Junctions to Promote Î±-Toxin Cytotoxicity. Cell Reports, 2018, 25, 2132-2147.e7.	2.9	40
34	Honey bee Royalactin unlocks conserved pluripotency pathway in mammals. Nature Communications, 2018, 9, 5078.	5.8	22
35	Editing N-Glycan Site Occupancy with Small-Molecule Oligosaccharyltransferase Inhibitors. Cell Chemical Biology, 2018, 25, 1231-1241.e4.	2.5	31
36	Species-independent contribution of ZBP1/DAI/DLM-1-triggered necroptosis in host defense against HSV1. Cell Death and Disease, 2018, 9, 816.	2.7	88

#	Article	IF	Citations
37	MLKL Requires the Inositol Phosphate Code to Execute Necroptosis. Molecular Cell, 2018, 70, 936-948.e7.	4.5	111
38	PLA2G16 represents a switch between entry and clearance of Picornaviridae. Nature, 2017, 541, 412-416.	13.7	168
39	A CRISPR toolbox to study virusâ€“host interactions. Nature Reviews Microbiology, 2017, 15, 351-364.	13.6	147
40	Monkeypox Virus Host Factor Screen Using Haploid Cells Identifies Essential Role of GARP Complex in Extracellular Virus Formation. Journal of Virology, 2017, 91, .	1.5	54
41	Antigen presentation profiling reveals recognition of lymphoma immunoglobulin neoantigens. Nature, 2017, 543, 723-727.	13.7	232
42	DDX6 Represses Aberrant Activation of Interferon-Stimulated Genes. Cell Reports, 2017, 20, 819-831.	2.9	54
43	Host determinants of adeno-associated viral vector entry. Current Opinion in Virology, 2017, 24, 124-131.	2.6	67
44	Adeno-associated Virus (AAV) Serotypes Have Distinctive Interactions with Domains of the Cellular AAV Receptor. Journal of Virology, 2017, 91, .	1.5	119
45	A Small-Molecule Oligosaccharyltransferase Inhibitor with Pan-flaviviral Activity. Cell Reports, 2017, 21, 3032-3039.	2.9	65
46	A Single Residue in Ebola Virus Receptor NPC1 Influences Cellular Host Range in Reptiles. MSphere, 2016, 1, .	1.3	25
47	Complement pathway amplifies caspase-11â€“dependent cell death and endotoxin-induced sepsis severity. Journal of Experimental Medicine, 2016, 213, 2365-2382.	4.2	120
48	Chromatin-Remodeling Complex SWI/SNF Controls Multidrug Resistance by Transcriptionally Regulating the Drug Efflux Pump ABCB1. Cancer Research, 2016, 76, 5810-5821.	0.4	32
49	Genetic dissection of Flaviviridae host factors through genome-scale CRISPR screens. Nature, 2016, 535, 159-163.	13.7	360
50	Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification. Nature Chemical Biology, 2016, 12, 361-366.	3.9	157
51	Comparative genetic screens in human cells reveal new regulatory mechanisms in WNT signaling. ELife, 2016, 5, .	2.8	49
52	Hunting Viral Receptors Using Haploid Cells. Annual Review of Virology, 2015, 2, 219-239.	3.0	19
53	Identifying multi-locus chromatin contacts in human cells using tethered multiple 3C. BMC Genomics, 2015, 16, 121.	1.2	51
54	The adherens junctions control susceptibility to Staphylococcus aureus Î±-toxin. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14337-14342.	3.3	68

#	Article	IF	Citations
55	Gene essentiality and synthetic lethality in haploid human cells. Science, 2015, 350, 1092-1096.	6.0	773
56	Kinetic pathway of 40S ribosomal subunit recruitment to hepatitis C virus internal ribosome entry site. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 319-325.	3.3	46
57	Compromising the 19S proteasome complex protects cells from reduced flux through the proteasome. ELife, 2015, 4, .	2.8	67
58	A forward genetic screen reveals novel independent regulators of ULBP1, an activating ligand for natural killer cells. ELife, 2015, 4, .	2.8	36
59	RIP3 Induces Apoptosis Independent of Pronecrotic Kinase Activity. Molecular Cell, 2014, 56, 481-495.	4.5	470
60	Human Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes as an In Vitro Model for Coxsackievirus B3â€“Induced Myocarditis and Antiviral Drug Screening Platform. Circulation Research, 2014, 115, 556-566.	2.0	134
61	GPR107, a G-protein-coupled Receptor Essential for Intoxication by Pseudomonas aeruginosa Exotoxin A, Localizes to the Golgi and Is Cleaved by Furin. Journal of Biological Chemistry, 2014, 289, 24005-24018.	1.6	54
62	Inhibition of ATPIF1 Ameliorates Severe Mitochondrial Respiratory Chain Dysfunction in Mammalian Cells. Cell Reports, 2014, 7, 27-34.	2.9	62
63	A CREB3â€“ARF4 signalling pathway mediates the response to Golgi stress and susceptibility to pathogens. Nature Cell Biology, 2013, 15, 1473-1485.	4.6	135
64	MCT1-mediated transport of a toxic molecule is an effective strategy for targeting glycolytic tumors. Nature Genetics, 2013, 45, 104-108.	9.4	204
65	Deciphering the Glycosylome of Dystroglycanopathies Using Haploid Screens for Lassa Virus Entry. Science, 2013, 340, 479-483.	6.0	262
66	Late endosomal transport and tethering are coupled processes controlled by RILP and the cholesterol sensor ORP1L. Journal of Cell Science, 2013, 126, 3462-74.	1.2	149
67	A Reporter Screen in a Human Haploid Cell Line Identifies CYLD as a Constitutive Inhibitor of NF-Î°B. PLoS ONE, 2013, 8, e70339.	1.1	34
68	Ebola virus entry requires the host-programmed recognition of an intracellular receptor. EMBO Journal, 2012, 31, 1947-1960.	3.5	284
69	Attachment of Chlamydia trachomatis L2 to host cells requires sulfation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10059-10064.	3.3	46
70	Ebola virus entry requires the cholesterol transporter Niemannâ€“Pick C1. Nature, 2011, 477, 340-343.	13.7	1,127
71	Global gene disruption in human cells to assign genes to phenotypes by deep sequencing. Nature Biotechnology, 2011, 29, 542-546.	9.4	207
72	Lipolysis-stimulated lipoprotein receptor (LSR) is the host receptor for the binary toxin Clostridium difficile transferase (CDT). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16422-16427.	3.3	175

#	Article	IF	Citations
73	Identification of host cell factors required for intoxication through use of modified cholera toxin. Journal of Cell Biology, 2011, 195, 751-764.	2.3	61
74	A haploid genetic screen identifies the major facilitator domain containing 2A (MFSD2A) transporter as a key mediator in the response to tunicamycin. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11756-11765.	3.3	90
75	Generation of iPSCs from cultured human malignant cells. Blood, 2010, 115, 4039-4042.	0.6	206
76	Objective determination of the oncolytic potency of conditionallyâ€replicating adenoviruses using mathematical modeling. Journal of Gene Medicine, 2010, 12, 564-571.	1.4	6
77	Haploid Genetic Screens in Human Cells Identify Host Factors Used by Pathogens. Science, 2009, 326, 1231-1235.	6.0	452
78	Replacement of Native Adenovirus Receptor-Binding Sites with a New Attachment Moiety Diminishes Hepatic Tropism and Enhances Bioavailability in Mice. Human Gene Therapy, 2008, 19, 783-794.	1.4	9
79	Enhanced tumor cell kill by combined treatment with a small-molecule antagonist of mouse double minute 2 and adenoviruses encoding p53. Molecular Cancer Therapeutics, 2007, 6, 1552-1561.	1.9	30
80	A conditionally replicating adenovirus with strict selectivity in killing cells expressing epidermal growth factor receptor. Virology, 2007, 361, 56-67.	1.1	24
81	Genetic Targeting of Adenovirus Vectors Using a Reovirus Ïƒ1-Based Attachment Protein. Molecular Therapy, 2006, 13, 997-1005.	3.7	24
82	Cyclophosphamide Increases Transgene Expression Mediated by an Oncolytic Adenovirus in Glioma-Bearing Mice Monitored by Bioluminescence Imaging. Molecular Therapy, 2006, 14, 779-788.	3.7	82
83	Replication-dependent transgene expression from a conditionally replicating adenovirus via alternative splicing to a heterologous splice-acceptor site. Journal of Gene Medicine, 2005, 7, 1053-1062.	1.4	28
84	Tissue Inhibitor of Metalloproteinase-3 Expression from an Oncolytic Adenovirus Inhibits Matrix Metalloproteinase Activity In vivo without Affecting Antitumor Efficacy in Malignant Glioma. Cancer Research, 2005, 65, 9398-9405.	0.4	54
85	Coxsackievirus and Adenovirus Receptor Expression on Primary Osteosarcoma Specimens and Implications for Gene Therapy with Recombinant Adenoviruses. Clinical Cancer Research, 2005, 11, 2445-2448.	3.2	15
86	Gene-directed enzyme prodrug therapy with carboxylesterase enhances the anticancer efficacy of the conditionally replicating adenovirus Adî”24. Gene Therapy, 2005, 12, 1011-1018.	2.3	21
87	Conditionally Replicating Adenoviruses Expressing Short Hairpin RNAs Silence the Expression of a Target Gene in Cancer Cells. Cancer Research, 2004, 64, 2663-2667.	0.4	59
88	Cowpea Mosaic Virus 32- and 60-Kilodalton Replication Proteins Target and Change the Morphology of Endoplasmic Reticulum Membranes. Journal of Virology, 2002, 76, 6293-6301.	1.5	62
89	Coalescence of the Sites of Cowpea Mosaic Virus RNA Replication into a Cytopathic Structure. Journal of Virology, 2002, 76, 6235-6243.	1.5	29
90	Cowpea mosaic virus : effects on host cell processes. Molecular Plant Pathology, 2002, 3, 411-418.	2.0	31

#	Article	IF	Citations
91	Subcellular location of the helper component-proteinase of Cowpea aphid-borne mosaic virus. Virus Genes, 2002, 25, 207-216.	0.7	20
92	Characterization of plant proteins that interact with cowpea mosaic virus â€˜60Kâ€™ protein in the yeast two-hybrid system. Journal of General Virology, 2002, 83, 885-893.	1.3	35
93	Mutational Analysis of the Genome-Linked Protein of Cowpea Mosaic Virus. Virology, 2001, 290, 21-29.	1.1	9
94	Alfalfa Mosaic Virus Replicase Proteins P1 and P2 Interact and Colocalize at the Vacuolar Membrane. Journal of Virology, 2001, 75, 1879-1887.	1.5	65
95	Cowpea Mosaic Virus Infection Induces a Massive Proliferation of Endoplasmic Reticulum but Not Golgi Membranes and Is Dependent on De Novo Membrane Synthesis. Journal of Virology, 2000, 74, 6556-6563.	1.5	125