

Mark R Denison

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

15,956
citations

56
h-index

126
g-index

130
ext. papers

20,015
ext. citations

9.5
avg, IF

6.56
L-index

#	Paper	IF	Citations
124	Standardized two-step testing of antibody activity in COVID-19 convalescent plasma.. <i>IScience</i> , 2022 , 25, 103602	6.1	1
123	Mutations in the SARS-CoV-2 RNA dependent RNA polymerase confer resistance to remdesivir by distinct mechanisms.. <i>Science Translational Medicine</i> , 2022 , eabo0718	17.5	5
122	Stabilized coronavirus spike stem elicits a broadly protective antibody. <i>Cell Reports</i> , 2021 , 37, 109929	10.6	18
121	Passive Immunity Trial for Our Nation (PassITON): study protocol for a randomized placebo-control clinical trial evaluating COVID-19 convalescent plasma in hospitalized adults. <i>Trials</i> , 2021 , 22, 221	2.8	8
120	Reovirus RNA recombination is sequence directed and generates internally deleted defective genome segments during passage. <i>Journal of Virology</i> , 2021 ,	6.6	4
119	Durability of Responses after SARS-CoV-2 mRNA-1273 Vaccination. <i>New England Journal of Medicine</i> , 2021 , 384, 80-82	59.2	392
118	Multicenter Interim Guidance on Use of Antivirals for Children With Coronavirus Disease 2019/Severe Acute Respiratory Syndrome Coronavirus 2. <i>Journal of the Pediatric Infectious Diseases Society</i> , 2021 , 10, 34-48	4.8	37
117	The coronavirus proofreading exoribonuclease mediates extensive viral recombination. <i>PLoS Pathogens</i> , 2021 , 17, e1009226	7.6	79
116	Durability of mRNA-1273 vaccine-induced antibodies against SARS-CoV-2 variants. <i>Science</i> , 2021 , 373, 1372-1377	33.3	150
115	Remdesivir Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. <i>Cell Reports</i> , 2020 , 32, 107940	10.6	260
114	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	534
113	Remdesivir potently inhibits SARS-CoV-2 in human lung cells and chimeric SARS-CoV expressing the SARS-CoV-2 RNA polymerase in mice 2020 ,		15
112	SARS-CoV-2 mRNA Vaccine Development Enabled by Prototype Pathogen Preparedness 2020 ,		62
111	Comparative therapeutic efficacy of remdesivir and combination lopinavir, ritonavir, and interferon beta against MERS-CoV. <i>Nature Communications</i> , 2020 , 11, 222	17.4	1059
110	Safety and Immunogenicity of SARS-CoV-2 mRNA-1273 Vaccine in Older Adults. <i>New England Journal of Medicine</i> , 2020 , 383, 2427-2438	59.2	737
109	SARS-CoV-2 mRNA vaccine design enabled by prototype pathogen preparedness. <i>Nature</i> , 2020 , 586, 567-571	50.4	594
108	An mRNA Vaccine against SARS-CoV-2 - Preliminary Report. <i>New England Journal of Medicine</i> , 2020 , 383, 1920-1931	59.2	1704

107	Multicenter Initial Guidance on Use of Antivirals for Children With Coronavirus Disease 2019/Severe Acute Respiratory Syndrome Coronavirus 2. <i>Journal of the Pediatric Infectious Diseases Society</i> , 2020 , 9, 701-715	4.8	79
106	Structural Definition of a Neutralization-Sensitive Epitope on the MERS-CoV S1-NTD. <i>Cell Reports</i> , 2019 , 28, 3395-3405.e6	10.6	53
105	Broad spectrum antiviral remdesivir inhibits human endemic and zoonotic deltacoronaviruses with a highly divergent RNA dependent RNA polymerase. <i>Antiviral Research</i> , 2019 , 169, 104541	10.8	288
104	Nucleoside analogues for the treatment of coronavirus infections. <i>Current Opinion in Virology</i> , 2019 , 35, 57-62	7.5	101
103	Fitness Barriers Limit Reversion of a Proofreading-Deficient Coronavirus. <i>Journal of Virology</i> , 2019 , 93,	6.6	7
102	Small-Molecule Antiviral β -Hydroxycytidine Inhibits a Proofreading-Intact Coronavirus with a High Genetic Barrier to Resistance. <i>Journal of Virology</i> , 2019 , 93,	6.6	128
101	Importance of Neutralizing Monoclonal Antibodies Targeting Multiple Antigenic Sites on the Middle East Respiratory Syndrome Coronavirus Spike Glycoprotein To Avoid Neutralization Escape. <i>Journal of Virology</i> , 2018 , 92,	6.6	119
100	Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. <i>MBio</i> , 2018 , 9,	7.8	880
99	Selective Packaging in Murine Coronavirus Promotes Virulence by Limiting Type I Interferon Responses. <i>MBio</i> , 2018 , 9,	7.8	15
98	Murine Hepatitis Virus nsp14 Exoribonuclease Activity Is Required for Resistance to Innate Immunity. <i>Journal of Virology</i> , 2018 , 92,	6.6	36
97	In Situ Tagged nsp15 Reveals Interactions with Coronavirus Replication/Transcription Complex-Associated Proteins. <i>MBio</i> , 2017 , 8,	7.8	31
96	Middle East Respiratory Syndrome. <i>New England Journal of Medicine</i> , 2017 , 376, 584-594	59.2	277
95	Immunogenicity and structures of a rationally designed prefusion MERS-CoV spike antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7348-E7357	11.5	615
94	Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	983
93	Proofreading-Deficient Coronaviruses Adapt for Increased Fitness over Long-Term Passage without Reversion of Exoribonuclease-Inactivating Mutations. <i>MBio</i> , 2017 , 8,	7.8	32
92	Inhibition of Polyamine Biosynthesis Is a Broad-Spectrum Strategy against RNA Viruses. <i>Journal of Virology</i> , 2016 , 90, 9683-9692	6.6	47
91	Mutagenesis of S-Adenosyl-L-Methionine-Binding Residues in Coronavirus nsp14 N7-Methyltransferase Demonstrates Differing Requirements for Genome Translation and Resistance to Innate Immunity. <i>Journal of Virology</i> , 2016 , 90, 7248-7256	6.6	39
90	Homology-Based Identification of a Mutation in the Coronavirus RNA-Dependent RNA Polymerase That Confers Resistance to Multiple Mutagens. <i>Journal of Virology</i> , 2016 , 90, 7415-7428	6.6	103

89	Mutations across murine hepatitis virus nsp4 alter virus fitness and membrane modifications. <i>Journal of Virology</i> , 2015 , 89, 2080-9	6.6	34
88	Evaluation of candidate vaccine approaches for MERS-CoV. <i>Nature Communications</i> , 2015 , 6, 7712	17.4	218
87	Serotonin Receptor Agonist 5-Nonyloxytryptamine Alters the Kinetics of Reovirus Cell Entry. <i>Journal of Virology</i> , 2015 , 89, 8701-12	6.6	21
86	Mutations in coronavirus nonstructural protein 10 decrease virus replication fidelity. <i>Journal of Virology</i> , 2015 , 89, 6418-26	6.6	43
85	Ligand-induced Dimerization of Middle East Respiratory Syndrome (MERS) Coronavirus nsp5 Protease (3CLpro): IMPLICATIONS FOR nsp5 REGULATION AND THE DEVELOPMENT OF ANTIVIRALS. <i>Journal of Biological Chemistry</i> , 2015 , 290, 19403-22	5.4	85
84	Novel poxvirus infection in 2 patients from the United States. <i>Clinical Infectious Diseases</i> , 2015 , 60, 195-2026		22
83	Thinking Outside the Triangle: Replication Fidelity of the Largest RNA Viruses. <i>Annual Review of Virology</i> , 2014 , 1, 111-32	14.6	75
82	Evaluation of serologic and antigenic relationships between middle eastern respiratory syndrome coronavirus and other coronaviruses to develop vaccine platforms for the rapid response to emerging coronaviruses. <i>Journal of Infectious Diseases</i> , 2014 , 209, 995-1006	7	83
81	Coronaviruses induce entry-independent, continuous macropinocytosis. <i>MBio</i> , 2014 , 5, e01340-14	7.8	35
80	A mouse model for Betacoronavirus subgroup 2c using a bat coronavirus strain HKU5 variant. <i>MBio</i> , 2014 , 5, e00047-14	7.8	47
79	Middle East respiratory syndrome coronavirus not detected in children hospitalized with acute respiratory illness in Amman, Jordan, March 2010 to September 2012. <i>Clinical Microbiology and Infection</i> , 2014 , 20, 678-82	9.5	20
78	Coronavirus replicase-reporter fusions provide quantitative analysis of replication and replication complex formation. <i>Journal of Virology</i> , 2014 , 88, 5319-27	6.6	18
77	Murine hepatitis virus nsp4 N258T mutants are not temperature-sensitive. <i>Virology</i> , 2013 , 435, 210-3	3.6	5
76	Coronavirus Picornain-like Cysteine Proteinase 2013 , 2436-2441		0
75	Coronaviruses lacking exoribonuclease activity are susceptible to lethal mutagenesis: evidence for proofreading and potential therapeutics. <i>PLoS Pathogens</i> , 2013 , 9, e1003565	7.6	292
74	Coronaviruses as DNA wannabes: a new model for the regulation of RNA virus replication fidelity. <i>PLoS Pathogens</i> , 2013 , 9, e1003760	7.6	72
73	Chimeric exchange of coronavirus nsp5 proteases (3CLpro) identifies common and divergent regulatory determinants of protease activity. <i>Journal of Virology</i> , 2013 , 87, 12611-8	6.6	71
72	Implications of altered replication fidelity on the evolution and pathogenesis of coronaviruses. <i>Current Opinion in Virology</i> , 2012 , 2, 519-24	7.5	30

71	A live, impaired-fidelity coronavirus vaccine protects in an aged, immunocompromised mouse model of lethal disease. <i>Nature Medicine</i> , 2012 , 18, 1820-6	50.5	181
70	Temperature-sensitive mutants and revertants in the coronavirus nonstructural protein 5 protease (3CLpro) define residues involved in long-distance communication and regulation of protease activity. <i>Journal of Virology</i> , 2012 , 86, 4801-10	6.6	25
69	H1N1 infection mimicking the clinical presentation of gastrointestinal GVHD in a patient following allo-SCT. <i>Bone Marrow Transplantation</i> , 2011 , 46, 152-3	4.4	2
68	Coronaviruses: an RNA proofreading machine regulates replication fidelity and diversity. <i>RNA Biology</i> , 2011 , 8, 270-9	4.8	329
67	Distinct patterns of IFITM-mediated restriction of filoviruses, SARS coronavirus, and influenza A virus. <i>PLoS Pathogens</i> , 2011 , 7, e1001258	7.6	417
66	Use of intravenous zanamivir after development of oseltamivir resistance in a critically ill immunosuppressed child infected with 2009 pandemic influenza A (H1N1) virus. <i>Clinical Infectious Diseases</i> , 2010 , 50, 1493-6	11.6	61
65	Exchange of the coronavirus replicase polyprotein cleavage sites alters protease specificity and processing. <i>Journal of Virology</i> , 2010 , 84, 6894-8	6.6	11
64	Murine hepatitis virus nonstructural protein 4 regulates virus-induced membrane modifications and replication complex function. <i>Journal of Virology</i> , 2010 , 84, 280-90	6.6	61
63	Infidelity of SARS-CoV Nsp14-exonuclease mutant virus replication is revealed by complete genome sequencing. <i>PLoS Pathogens</i> , 2010 , 6, e1000896	7.6	304
62	ANDES: Statistical tools for the ANalyses of DEep Sequencing. <i>BMC Research Notes</i> , 2010 , 3, 199	2.3	18
61	SARS coronavirus replicase proteins in pathogenesis. <i>Virus Research</i> , 2008 , 133, 88-100	6.4	94
60	Synthetic recombinant bat SARS-like coronavirus is infectious in cultured cells and in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19944-9	11.5	178
59	A novel mutation in murine hepatitis virus nsp5, the viral 3C-like proteinase, causes temperature-sensitive defects in viral growth and protein processing. <i>Journal of Virology</i> , 2008 , 82, 5999-6008	6.6	13
58	Murine coronaviruses encoding nsp2 at different genomic loci have altered replication, protein expression, and localization. <i>Journal of Virology</i> , 2008 , 82, 11964-9	6.6	25
57	Antiviral Agents for SARS 2008 , 184-202		
56	Seeking membranes: positive-strand RNA virus replication complexes. <i>PLoS Biology</i> , 2008 , 6, e270	9.7	67
55	Genetic analysis of Murine hepatitis virus nsp4 in virus replication. <i>Journal of Virology</i> , 2007 , 81, 12554-63	6.6	30
54	Coronavirus replication does not require the autophagy gene ATG5. <i>Autophagy</i> , 2007 , 3, 581-5	10.2	166

53	Analysis of murine hepatitis virus strain A59 temperature-sensitive mutant TS-LA6 suggests that nsp10 plays a critical role in polyprotein processing. <i>Journal of Virology</i> , 2007 , 81, 7086-98	6.6	38
52	High fidelity of murine hepatitis virus replication is decreased in nsp14 exoribonuclease mutants. <i>Journal of Virology</i> , 2007 , 81, 12135-44	6.6	225
51	Murine hepatitis virus replicase protein nsp10 is a critical regulator of viral RNA synthesis. <i>Journal of Virology</i> , 2007 , 81, 6356-68	6.6	42
50	Processing of open reading frame 1a replicase proteins nsp7 to nsp10 in murine hepatitis virus strain A59 replication. <i>Journal of Virology</i> , 2007 , 81, 10280-91	6.6	60
49	Replication of murine hepatitis virus is regulated by papain-like proteinase 1 processing of nonstructural proteins 1, 2, and 3. <i>Journal of Virology</i> , 2006 , 80, 11610-20	6.6	31
48	The nsp2 proteins of mouse hepatitis virus and SARS coronavirus are dispensable for viral replication. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 67-72	3.6	20
47	MHV-A59 ORF1a replicase protein nsp7-nsp10 processing in replication. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 101-4	3.6	3
46	Effects of mutagenesis of murine hepatitis virus nsp1 and nsp14 on replication in culture. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 581, 55-60	3.6	14
45	Mutagenesis of the murine hepatitis virus nsp1-coding region identifies residues important for protein processing, viral RNA synthesis, and viral replication. <i>Virology</i> , 2005 , 340, 209-23	3.6	58
44	Single-amino-acid substitutions in open reading frame (ORF) 1b-nsp14 and ORF 2a proteins of the coronavirus mouse hepatitis virus are attenuating in mice. <i>Journal of Virology</i> , 2005 , 79, 3391-400	6.6	83
43	Severe acute respiratory syndrome coronavirus group-specific open reading frames encode nonessential functions for replication in cell cultures and mice. <i>Journal of Virology</i> , 2005 , 79, 14909-22	6.6	212
42	The nsp2 replicase proteins of murine hepatitis virus and severe acute respiratory syndrome coronavirus are dispensable for viral replication. <i>Journal of Virology</i> , 2005 , 79, 13399-411	6.6	139
41	Identification and characterization of severe acute respiratory syndrome coronavirus replicase proteins. <i>Journal of Virology</i> , 2004 , 78, 9977-86	6.6	206
40	Intracellular localization and protein interactions of the gene 1 protein p28 during mouse hepatitis virus replication. <i>Journal of Virology</i> , 2004 , 78, 11551-62	6.6	45
39	Cleavage between replicase proteins p28 and p65 of mouse hepatitis virus is not required for virus replication. <i>Journal of Virology</i> , 2004 , 78, 5957-65	6.6	42
38	Severe acute respiratory syndrome coronavirus pathogenesis, disease and vaccines: an update. <i>Pediatric Infectious Disease Journal</i> , 2004 , 23, S207-14	3-4	35
37	Coronavirus replication complex formation utilizes components of cellular autophagy. <i>Journal of Biological Chemistry</i> , 2004 , 279, 10136-41	5-4	329
36	Molecular targets for the rational design of drugs to inhibit SARS coronavirus. <i>Drug Discovery Today Disease Mechanisms</i> , 2004 , 1, 205-209		3

35	Reverse genetics with a full-length infectious cDNA of severe acute respiratory syndrome coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12995-3000	11.5	295
34	Characterization of the expression, intracellular localization, and replication complex association of the putative mouse hepatitis virus RNA-dependent RNA polymerase. <i>Journal of Virology</i> , 2003 , 77, 10515-27	6.6	97
33	Systematic assembly of a full-length infectious cDNA of mouse hepatitis virus strain A59. <i>Journal of Virology</i> , 2002 , 76, 11065-78	6.6	251
32	Unilateral facial paralysis occurring in an infant with enteroviral otitis media and aseptic meningitis. <i>Journal of Emergency Medicine</i> , 2002 , 22, 267-71	1.5	8
31	Mouse hepatitis virus replicase protein complexes are translocated to sites of M protein accumulation in the ERGIC at late times of infection. <i>Virology</i> , 2001 , 285, 21-9	3.6	64
30	The cell biology of coronavirus infection. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 494, 609-14	3.6	6
29	MHV-A59 gene 1 proteins are associated with two distinct membrane populations. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 494, 655-61	3.6	3
28	Four proteins processed from the replicase gene polyprotein of mouse hepatitis virus colocalize in the cell periphery and adjacent to sites of virion assembly. <i>Journal of Virology</i> , 2000 , 74, 3379-87	6.6	102
27	Mouse hepatitis virus replicase proteins associate with two distinct populations of intracellular membranes. <i>Journal of Virology</i> , 2000 , 74, 5647-54	6.6	61
26	The putative helicase of the coronavirus mouse hepatitis virus is processed from the replicase gene polyprotein and localizes in complexes that are active in viral RNA synthesis. <i>Journal of Virology</i> , 1999 , 73, 6862-71	6.6	82
25	Localization of mouse hepatitis virus nonstructural proteins and RNA synthesis indicates a role for late endosomes in viral replication. <i>Journal of Virology</i> , 1999 , 73, 7641-57	6.6	161
24	Mouse hepatitis virus 3C-like protease cleaves a 22-kilodalton protein from the open reading frame 1a polyprotein in virus-infected cells and in vitro. <i>Journal of Virology</i> , 1998 , 72, 2265-71	6.6	48
23	Determinants of mouse hepatitis virus 3C-like proteinase activity. <i>Virology</i> , 1997 , 230, 335-42	3.6	33
22	Fatal Fat Embolism Syndrome in a Child with Undiagnosed Hemoglobin S/β Thalassemia: A Complication of Acute Parvovirus B19 Infection. <i>Pediatric Pathology & Laboratory Medicine: Journal of the Society for Pediatric Pathology, Affiliated With the International Paediatric Pathology Association</i> , 1996 , 16, 71-82		3
21	Intracellular and in vitro-translated 27-kDa proteins contain the 3C-like proteinase activity of the coronavirus MHV-A59. <i>Virology</i> , 1996 , 222, 375-82	3.6	47
20	FATAL FAT EMBOLISM SYNDROME IN A CHILD WITH UNDIAGNOSED HEMOGLOBIN S/Beta+ THALASSEMIA: A Complication of Acute Parvovirus B19 Infection. <i>Pediatric Pathology & Laboratory Medicine: Journal of the Society for Pediatric Pathology, Affiliated With the International Paediatric Pathology Association</i> , 1996 , 16, 71-82		11
19	Identification and characterization of a 65-kDa protein processed from the gene 1 polyprotein of the murine coronavirus MHV-A59. <i>Virology</i> , 1995 , 207, 316-20	3.6	46
18	Coronavirus protein processing and RNA synthesis is inhibited by the cysteine proteinase inhibitor E64d. <i>Virology</i> , 1995 , 208, 1-8	3.6	92

17	Viral pharyngitis. <i>Seminars in Pediatric Infectious Diseases</i> , 1995 , 6, 62-68		3
16	Inhibition of coronavirus MHV-A59 replication by proteinase inhibitors. <i>Advances in Experimental Medicine and Biology</i> , 1995 , 380, 391-7	3.6	5
15	Survival experience of 789 children with the acquired immunodeficiency syndrome. <i>Pediatric Infectious Disease Journal</i> , 1993 , 12, 310-20	3.4	53
14	A newly identified MHV-A59 ORF1a polypeptide p65 is temperature sensitive in two RNA negative mutants. <i>Advances in Experimental Medicine and Biology</i> , 1993 , 342, 221-6	3.6	4
13	Intracellular processing of the N-terminal ORF 1a proteins of the coronavirus MHV-A59 requires multiple proteolytic events. <i>Virology</i> , 1992 , 189, 274-84	3.6	83
12	Neonatal renal abscess caused by <i>Staphylococcus aureus</i> . <i>Pediatric Infectious Disease Journal</i> , 1991 , 10, 463-6	3.4	15
11	Identification of polypeptides encoded in open reading frame 1b of the putative polymerase gene of the murine coronavirus mouse hepatitis virus A59. <i>Journal of Virology</i> , 1991 , 65, 3076-82	6.6	36
10	Translation and processing of mouse hepatitis virus virion RNA in a cell-free system. <i>Journal of Virology</i> , 1986 , 60, 12-8	6.6	70
9	Distinct genetic determinants and mechanisms of SARS-CoV-2 resistance to remdesivir		1
8	Cell Biology of Nidovirus Replication Complexes 103-113		1
7	Remdesivir Potently Inhibits SARS-CoV-2 in Human Lung Cells and Chimeric SARS-CoV Expressing the SARS-CoV-2 RNA Polymerase in Mice. <i>SSRN Electronic Journal</i> ,	1	11
6	Proofreading-deficient coronaviruses adapt over long-term passage for increased fidelity and fitness without reversion of exoribonuclease-inactivating mutations		6
5	Mouse hepatitis virus nsp14 exoribonuclease activity is required for resistance to innate immunity		2
4	An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 and multiple endemic, epidemic and bat coronavirus		11
3	The coronavirus proofreading exoribonuclease mediates extensive viral recombination		9
2	Reovirus RNA recombination is sequence directed and generates internally deleted defective genome segments during passage		1
1	Fitness barriers limit reversion of a proofreading-deficient coronavirus		1