

Lies Laenen

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

7,685
citations

76196

40
h-index

64668

79
g-index

137
all docs

137
docs citations

137
times ranked

11658
citing authors

#	ARTICLE	IF	CITATIONS
1	Early high antibody titre convalescent plasma for hospitalised COVID-19 patients: DAWn-plasma. <i>European Respiratory Journal</i> , 2022, 59, 2101724.	3.1	38
2	Considerable escape of SARS-CoV-2 Omicron to antibody neutralization. <i>Nature</i> , 2022, 602, 671-675.	13.7	1,202
3	Reliable and Scalable SARS-CoV-2 qPCR Testing at a High Sample Throughput: Lessons Learned from the Belgian Initiative. <i>Life</i> , 2022, 12, 159.	1.1	2
4	New approach for genomic characterisation of equine sarcoid-derived BPV-1/-2 using nanopore-based sequencing. <i>Virology Journal</i> , 2022, 19, 8.	1.4	4
5	The omicron (B.1.1.529) SARS-CoV-2 variant of concern does not readily infect Syrian hamsters. <i>Antiviral Research</i> , 2022, 198, 105253.	1.9	104
6	Remdesivir, Molnupiravir and Nirmatrelvir remain active against SARS-CoV-2 Omicron and other variants of concern. <i>Antiviral Research</i> , 2022, 198, 105252.	1.9	302
7	Multidrug-resistant tuberculosis control in Rwanda overcomes a successful clone that causes most disease over a quarter century. <i>Journal of Clinical Tuberculosis and Other Mycobacterial Diseases</i> , 2022, 27, 100299.	0.6	2
8	Identification of the First SARS-CoV-2 Lineage B.1.1.529 Virus Detected in Europe. <i>Microbiology Resource Announcements</i> , 2022, 11, e0116121.	0.3	12
9	The virota and its transkingdom interactions in the healthy infant gut. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2114619119.	3.3	30
10	Serum neutralization of SARS-CoV-2 Omicron sublineages BA.1 and BA.2 in patients receiving monoclonal antibodies. <i>Nature Medicine</i> , 2022, 28, 1297-1302.	15.2	235
11	Identification of novel Ebola virus inhibitors using biologically contained virus. <i>Antiviral Research</i> , 2022, 200, 105294.	1.9	5
12	Fast detection of SARS-CoV-2 variants including Omicron using one-step RT-PCR and Sanger sequencing. <i>Journal of Virological Methods</i> , 2022, 304, 114512.	1.0	18
13	Intracellular flow cytometry complements RT-qPCR detection of circulating SARS-CoV-2 variants of concern. <i>BioTechniques</i> , 2022, 72, 245-254.	0.8	8
14	Convalescent plasma donors show enhanced cross-reactive neutralizing antibody response to antigenic variants of SARS-CoV-2 following immunization. <i>Transfusion</i> , 2022, 62, 1347-1354.	0.8	9
15	Two Separate Clusters of SARS-CoV-2 Delta Variant Infections in a Group of 41 Students Travelling from India: An Illustration of the Need for Rigorous Testing and Quarantine. <i>Viruses</i> , 2022, 14, 1198.	1.5	4
16	The role of airborne transmission in a large single source outbreak of SARS-CoV-2 in a Belgian nursing home in 2020. <i>Epidemics</i> , 2022, 40, 100589.	1.5	7
17	Nationwide Harmonization Effort for Semi-Quantitative Reporting of SARS-CoV-2 PCR Test Results in Belgium. <i>Viruses</i> , 2022, 14, 1294.	1.5	13
18	Symptomatic Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Reinfection by a Phylogenetically Distinct Strain. <i>Clinical Infectious Diseases</i> , 2021, 73, 354-356.	2.9	218

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19	Dynamic changes in paediatric invasive pneumococcal disease after sequential switches of conjugate vaccine in Belgium: a national retrospective observational study. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 127-136.	4.6	34
20	Longitudinal antibody and T cell responses in Ebola virus disease survivors and contacts: an observational cohort study. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 507-516.	4.6	26
21	Successful double-lung transplantation from a donor previously infected with SARS-CoV-2. <i>Lancet Respiratory Medicine</i> , the, 2021, 9, 315-318.	5.2	41
22	In-depth analysis of pneumococcal serotypes in Belgian children (2015â€“2018): Diversity, invasive disease potential, and antimicrobial susceptibility in carriage and disease. <i>Vaccine</i> , 2021, 39, 372-379.	1.7	14
23	A Phylodynamic Workflow to Rapidly Gain Insights into the Dispersal History and Dynamics of SARS-CoV-2 Lineages. <i>Molecular Biology and Evolution</i> , 2021, 38, 1608-1613.	3.5	79
24	Convalescent plasma treatment of persistent severe acute respiratory syndrome coronavirusâ€“2 (SARSâ€“CoVâ€“2) infection in patients with lymphoma with impaired humoral immunity and lack of neutralising antibodies. <i>British Journal of Haematology</i> , 2021, 192, 1100-1105.	1.2	51
25	Advancing Marburg virus antiviral screening: Optimization of a novel T7 polymerase-independent minigenome system. <i>Antiviral Research</i> , 2021, 185, 104977.	1.9	6
26	128 days of SARS-CoV-2 viral shedding in a haemodialysis patient. <i>CKJ: Clinical Kidney Journal</i> , 2021, 14, 1284-1286.	1.4	2
27	Chloroquine, an Anti-Malaria Drug as Effective Prevention for Hantavirus Infections. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 580532.	1.8	5
28	The SARS-CoV-2 and other human coronavirus spike proteins are fine-tuned towards temperature and proteases of the human airways. <i>PLoS Pathogens</i> , 2021, 17, e1009500.	2.1	91
29	Genome Sequence of Ruloma Virus, a Novel Paramyxovirus Clustering Basally to Members of the Genus <i>Jeilongvirus</i> . <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	11
30	A confirmed case of COVID-19 reinfection with a genetically distinct strain: a case report from Belgium. <i>Acta Clinica Belgica</i> , 2021, , 1-2.	0.5	0
31	Comparing infectivity and virulence of emerging SARS-CoV-2 variants in Syrian hamsters. <i>EBioMedicine</i> , 2021, 68, 103403.	2.7	102
32	Variant Analysis of SARS-CoV-2 Genomes from Belgian Military Personnel Engaged in Overseas Missions and Operations. <i>Viruses</i> , 2021, 13, 1359.	1.5	6
33	Exploration of the <i>Ixodes ricinus</i> virosphere unveils an extensive virus diversity including novel coltiviruses and other reoviruses. <i>Virus Evolution</i> , 2021, 7, veab066.	2.2	8
34	Molnupiravir Inhibits Replication of the Emerging SARS-CoV-2 Variants of Concern in a Hamster Infection Model. <i>Journal of Infectious Diseases</i> , 2021, 224, 749-753.	1.9	95
35	SARS-CoV-2 neutralising antibody testing in Europe: towards harmonisation of neutralising antibody titres for better use of convalescent plasma and comparability of trial data. <i>Eurosurveillance</i> , 2021, 26, .	3.9	31
36	2021 Taxonomic update of phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. <i>Archives of Virology</i> , 2021, 166, 3513-3566.	0.9	62

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37	Commentary: Development of a Comparative European Orthohantavirus Microneutralization Assay With Multi-Species Validation and Evaluation in a Human Diagnostic Cohort. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 702709.	1.8	0
38	Phylogenomic Characterization of Lopma Virus and Praja Virus, Two Novel Rodent-Borne Arteriviruses. <i>Viruses</i> , 2021, 13, 1842.	1.5	4
39	Exploiting genomic surveillance to map the spatio-temporal dispersal of SARS-CoV-2 spike mutations in Belgium across 2020. <i>Scientific Reports</i> , 2021, 11, 18580.	1.6	10
40	An affinity-enhanced, broadly neutralizing heavy chain-only antibody protects against SARS-CoV-2 infection in animal models. <i>Science Translational Medicine</i> , 2021, 13, eabi7826.	5.8	41
41	Symptomatic severe acute respiratory syndrome coronavirus-2 reinfection in a lupus patient treated with hydroxychloroquine: a case report. <i>Journal of Medical Case Reports</i> , 2021, 15, 572.	0.4	2
42	Organ-specific genome diversity of replication-competent SARS-CoV-2. <i>Nature Communications</i> , 2021, 12, 6612.	5.8	49
43	Novel Filoviruses, Hantavirus, and Rhabdovirus in Freshwater Fish, Switzerland, 2017. <i>Emerging Infectious Diseases</i> , 2021, 27, 3082-3091.	2.0	16
44	Track Omicron™s spread with molecular data. <i>Science</i> , 2021, 374, 1454-1455.	6.0	103
45	A Recurrent Mutation at Position 26340 of SARS-CoV-2 Is Associated with Failure of the E Gene Quantitative Reverse Transcription-PCR Utilized in a Commercial Dual-Target Diagnostic Assay. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	1.8	160
46	Case Report: Convalescent Plasma, a Targeted Therapy for Patients with CVID and Severe COVID-19. <i>Frontiers in Immunology</i> , 2020, 11, 596761.	2.2	45
47	SARS-CoV-2 Detection for Diagnosis Purposes in the Setting of a Molecular Biology Research Lab. <i>Methods and Protocols</i> , 2020, 3, 59.	0.9	11
48	BKTyper: Free Online Tool for Polyoma BK Virus VP1 and NCCR Typing. <i>Viruses</i> , 2020, 12, 837.	1.5	9
49	2020 taxonomic update for phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. <i>Archives of Virology</i> , 2020, 165, 3023-3072.	0.9	184
50	Common occurrence of Belerina virus, a novel paramyxovirus found in Belgian hedgehogs. <i>Scientific Reports</i> , 2020, 10, 19341.	1.6	17
51	Accounting for population structure reveals ambiguity in the Zaire Ebolavirus reservoir dynamics. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008117.	1.3	8
52	Common Occurrence of Belerina Virus, a Novel Paramyxovirus Found in Belgian Hedgehogs. <i>Proceedings (mdpi)</i> , 2020, 50, 40.	0.2	1
53	Detection of Known and Novel Viral Pathogens in Belgian Ixodes ricinus Ticks. <i>Proceedings (mdpi)</i> , 2020, 50, .	0.2	0
54	Novel hepatitis B virus subgenotype A8 and quasi-subgenotype D12 in African-Belgian chronic carriers. <i>International Journal of Infectious Diseases</i> , 2020, 93, 98-101.	1.5	11

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55	Meeting report: Eleventh International Conference on Hantaviruses. <i>Antiviral Research</i> , 2020, 176, 104733.	1.9	8
56	First genomic characterization of a Belgian Enterovirus C104 using sequence-independent Nanopore sequencing. <i>Infection, Genetics and Evolution</i> , 2020, 81, 104267.	1.0	7
57	Honey-bee-associated prokaryotic viral communities reveal wide viral diversity and a profound metabolic coding potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10511-10519.	3.3	36
58	Laboratory information system requirements to manage the COVID-19 pandemic: A report from the Belgian national reference testing center. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 1293-1299.	2.2	22
59	Identifying the patterns and drivers of Puumala hantavirus enzootic dynamics using reservoir sampling. <i>Virus Evolution</i> , 2019, 5, vez009.	2.2	16
60	Hantaviridae: Current Classification and Future Perspectives. <i>Viruses</i> , 2019, 11, 788.	1.5	94
61	Classify viruses – the gain is worth the pain. <i>Nature</i> , 2019, 566, 318-320.	13.7	104
62	Taxonomy of the order Mononegavirales: second update 2018. <i>Archives of Virology</i> , 2019, 164, 1233-1244.	0.9	70
63	Taxonomy of the order Bunyavirales: second update 2018. <i>Archives of Virology</i> , 2019, 164, 927-941.	0.9	115
64	Gut Virome Analysis of Cameroonians Reveals High Diversity of Enteric Viruses, Including Potential Interspecies Transmitted Viruses. <i>MSphere</i> , 2019, 4, .	1.3	57
65	Complete Genome Sequence of a New Ebola Virus Strain Isolated during the 2017 Likati Outbreak in the Democratic Republic of the Congo. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	11
66	Taxonomy of the order Bunyavirales: update 2019. <i>Archives of Virology</i> , 2019, 164, 1949-1965.	0.9	285
67	Taxonomy of the order Mononegavirales: update 2019. <i>Archives of Virology</i> , 2019, 164, 1967-1980.	0.9	224
68	Human cytomegalovirus genomics and transcriptomics through the lens of next-generation sequencing: revision and future challenges. <i>Virus Genes</i> , 2019, 55, 138-164.	0.7	39
69	Strengthening the Interaction of the Virology Community with the International Committee on Taxonomy of Viruses (ICTV) by Linking Virus Names and Their Abbreviations to Virus Species. <i>Systematic Biology</i> , 2019, 68, 828-839.	2.7	11
70	Taxonomy of the family Arenaviridae and the order Bunyavirales: update 2018. <i>Archives of Virology</i> , 2018, 163, 2295-2310.	0.9	157
71	Taxonomy of the order Mononegavirales: update 2018. <i>Archives of Virology</i> , 2018, 163, 2283-2294.	0.9	153
72	Antibiotic Resistance Plasmids Cointegrated into a Megaplasmid Harboring the <i>bla</i> _{OXA-427} Carbapenemase Gene. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	20

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73	A Novel Hantavirus of the European Mole, Bruges Virus, Is Involved in Frequent Nova Virus Coinfections. <i>Genome Biology and Evolution</i> , 2018, 10, 45-55.	1.1	23
74	Low eukaryotic viral richness is associated with faecal microbiota transplantation success in patients with UC. <i>Gut</i> , 2018, 67, 1558-1559.	6.1	46
75	Acute hantavirus infection presenting as haemolytic-uraemic syndrome (HUS): the importance of early clinical diagnosis. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2018, 37, 135-140.	1.3	5
76	Host switching pathogens, infectious outbreaks and zoonosis: A Marie Skłodowska-Curie innovative training network (HONOURS). <i>Virus Research</i> , 2018, 257, 120-124.	1.1	2
77	Discovery and genome characterization of three new Jeilongviruses, a lineage of paramyxoviruses characterized by their unique membrane proteins. <i>BMC Genomics</i> , 2018, 19, 617.	1.2	35
78	Nanopore sequencing as a revolutionary diagnostic tool for porcine viral enteric disease complexes identifies porcine kobuvirus as an important enteric virus. <i>Scientific Reports</i> , 2018, 8, 9830.	1.6	59
79	Expanding the Arterivirus Host Spectrum: Olivier's Shrew Virus 1, A Novel Arterivirus Discovered in African Giant Shrews. <i>Scientific Reports</i> , 2018, 8, 11171.	1.6	6
80	Cameroonian fruit bats harbor divergent viruses, including rotavirus H, bastroviruses, and picobirnaviruses using an alternative genetic code. <i>Virus Evolution</i> , 2018, 4, vey008.	2.2	90
81	Genomic characterization of <i>Erethizon dorsatum</i> papillomavirus 2, a new papillomavirus species marked by its exceptional genome size. <i>Journal of General Virology</i> , 2018, 99, 1699-1704.	1.3	5
82	Virus Hunting: Discovery of New Episomal Circular Viruses by Rolling Circle Techniques. <i>Current Protocols in Microbiology</i> , 2017, 44, 1E.12.1-1E.12.18.	6.5	3
83	Viral gut metagenomics of sympatric wild and domestic canids, and monitoring of viruses: Insights from an endangered wolf population. <i>Ecology and Evolution</i> , 2017, 7, 4135-4146.	0.8	28
84	Novel highly divergent sapoviruses detected by metagenomics analysis in straw-colored fruit bats in Cameroon. <i>Emerging Microbes and Infections</i> , 2017, 6, 1-7.	3.0	44
85	Highly diverse population of Picornaviridae and other members of the Picornavirales, in Cameroonian fruit bats. <i>BMC Genomics</i> , 2017, 18, 249.	1.2	42
86	Identification of a novel species of papillomavirus in giraffe lesions using nanopore sequencing. <i>Veterinary Microbiology</i> , 2017, 201, 26-31.	0.8	13
87	The Papillomavirus Episteme: a major update to the papillomavirus sequence database. <i>Nucleic Acids Research</i> , 2017, 45, D499-D506.	6.5	298
88	Grotenhout Virus, a Novel Nairovirus Found in <i>Ixodes ricinus</i> in Belgium. <i>Genome Announcements</i> , 2017, 5, .	0.8	19
89	Phylogenetic analysis of Puumala virus strains from Central Europe highlights the need for a full-genome perspective on hantavirus evolution. <i>Virus Genes</i> , 2017, 53, 913-917.	0.7	11
90	A lethal disease model for New World hantaviruses using immunosuppressed Syrian hamsters. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0006042.	1.3	13

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91	Comment on "A Cluster of Three Cases of Hantavirus Pulmonary Syndrome among Canadian Military Personnel". Canadian Journal of Infectious Diseases and Medical Microbiology, 2016, 2016, 1-3.	0.7	3
92	A single bat species in Cameroon harbors multiple highly divergent papillomaviruses in stool identified by metagenomics analysis. Virology Reports, 2016, 6, 74-80.	0.4	8
93	Analysis of Diagnostic Findings From the European Mobile Laboratory in Guéckoudou, Guinea, March 2014 Through March 2015. Journal of Infectious Diseases, 2016, 214, S250-S257.	1.9	32
94	Spatio-temporal analysis of Nova virus, a divergent hantavirus circulating in the European mole in Belgium. Molecular Ecology, 2016, 25, 5994-6008.	2.0	28
95	Novel highly divergent reassortant bat rotaviruses in Cameroon, without evidence of zoonosis. Scientific Reports, 2016, 6, 34209.	1.6	44
96	Glycoprotein-Specific Antibodies Produced by DNA Vaccination Protect Guinea Pigs from Lethal Argentine and Venezuelan Hemorrhagic Fever. Journal of Virology, 2016, 90, 3515-3529.	1.5	21
97	Modular approach to customise sample preparation procedures for viral metagenomics: a reproducible protocol for virome analysis. Scientific Reports, 2015, 5, 16532.	1.6	277
98	Temporal and spatial analysis of the 2014-2015 Ebola virus outbreak in West Africa. Nature, 2015, 524, 97-101.	13.7	272
99	High-Throughput Analysis of Human Cytomegalovirus Genome Diversity Highlights the Widespread Occurrence of Gene-Disrupting Mutations and Pervasive Recombination. Journal of Virology, 2015, 89, 7673-7695.	1.5	148
100	Complete Genome Sequence of Nova Virus, a Hantavirus Circulating in the European Mole in Belgium. Genome Announcements, 2015, 3, .	0.8	3
101	A rare case of HBV genotype fluctuation (shifting and reversion) after liver transplantation. Journal of Clinical Virology, 2015, 71, 93-97.	1.6	5
102	Epidemiological history and genomic characterization of non-D1 HBV strains identified in Iran. Journal of Clinical Virology, 2015, 63, 38-41.	1.6	7
103	A decade of norovirus genetic diversity in Belgium. Infection, Genetics and Evolution, 2015, 30, 37-44.	1.0	7
104	Genomic Diversity of Hepatitis B Virus Infection Associated With Fulminant Hepatitis B Development. Hepatitis Monthly, 2015, 15, e29477.	0.1	26
105	Genomic and Functional Characteristics of Human Cytomegalovirus Revealed by Next-Generation Sequencing. Viruses, 2014, 6, 1049-1072.	1.5	53
106	Complete Genome Sequence of Equid Herpesvirus 3. Genome Announcements, 2014, 2, .	0.8	12
107	Modelling seasonal and multi-annual variation in bank vole populations and nephropathia epidemica. Biosystems Engineering, 2014, 121, 25-37.	1.9	8
108	A Method Enabling High-Throughput Sequencing of Human Cytomegalovirus Complete Genomes from Clinical Isolates. PLoS ONE, 2014, 9, e95501.	1.1	23

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109	Another case of "European hantavirus pulmonary syndrome" with severe lung, prior to kidney, involvement, and diagnosed by viral inclusions in lung macrophages. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2013, 32, 1341-1345.	1.3	44
110	Complete Genome Sequence of a Papillomavirus Isolated from the European Mole. <i>Genome Announcements</i> , 2013, 1, .	0.8	1
111	Hepatitis C Virus NS5B Sequence-Based Genotyping Analysis of Patients From the Sharkia Governorate, Egypt. <i>Hepatitis Monthly</i> , 2013, 13, e12706.	0.1	15
112	Ecological Niche Modelling of Bank Voles in Western Europe. <i>International Journal of Environmental Research and Public Health</i> , 2013, 10, 499-514.	1.2	13
113	Satellite Derived Forest Phenology and Its Relation with Nephropathia Epidemica in Belgium. <i>International Journal of Environmental Research and Public Health</i> , 2010, 7, 2486-2500.	1.2	18
114	Beechnuts and outbreaks of nephropathia epidemica (NE): of mast, mice and men. <i>Nephrology Dialysis Transplantation</i> , 2010, 25, 1740-1746.	0.4	47
115	RotaC: A web-based tool for the complete genome classification of group A rotaviruses. <i>BMC Microbiology</i> , 2009, 9, 238.	1.3	365
116	A proposal for new criteria for the classification of hantaviruses, based on S and M segment protein sequences. <i>Infection, Genetics and Evolution</i> , 2009, 9, 813-820.	1.0	71
117	Recent approaches in hantavirus vaccine development. <i>Expert Review of Vaccines</i> , 2009, 8, 67-76.	2.0	59
118	Truncated Recombinant Puumala Virus Nucleocapsid Proteins Protect Mice Against Challenge in Vivo. <i>Viral Immunology</i> , 2008, 21, 49-60.	0.6	18
119	Truncated Recombinant Dobrava Hantavirus Nucleocapsid Proteins Induce Strong, Long-Lasting Immune Responses in Mice. <i>Intervirology</i> , 2006, 49, 253-260.	1.2	20
120	Tumor Necrosis Factor- α Genetic Predisposing Factors Can Influence Clinical Severity in Nephropathia Epidemica. <i>Viral Immunology</i> , 2006, 19, 558-564.	0.6	33
121	Detection of Puumala Hantavirus Antibody with ELISA Using a Recombinant Truncated Nucleocapsid Protein Expressed in <i>Escherichia coli</i> . <i>Viral Immunology</i> , 2004, 17, 315-321.	0.6	10
122	Hantaviruses: Immunology, Treatment, and Prevention. <i>Viral Immunology</i> , 2004, 17, 481-497.	0.6	148
123	Poliovirus sampling by using sodium dodecyl sulfate/EDTA-pretreated chromatography paper strips. <i>Biochemical and Biophysical Research Communications</i> , 2004, 325, 711-715.	1.0	2
124	NetoVIR: a reproducible protocol for virome analysis. <i>Protocol Exchange</i> , 0, , .	0.3	8
125	Considerable escape of SARS-CoV-2 Omicron to antibody neutralization. <i>Nature</i> , 0, , .	13.7	88
126	Antiviral treatment with fluoxetine for rituximab-associated chronic echovirus 13 meningoencephalitis and myofasciitis. <i>European Journal of Neurology</i> , 0, , .	1.7	2