

Volker Thiel

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5163827/volker-thiel-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

116
papers

11,711
citations

49
h-index

108
g-index

130
ext. papers

15,046
ext. citations

11.6
avg, IF

6.7
L-index

#	Paper	IF	Citations
116	Dipeptidyl peptidase 4 is a functional receptor for the emerging human coronavirus-EMC. <i>Nature</i> , 2013 , 495, 251-4	50.4	1362
115	Unique and conserved features of genome and proteome of SARS-coronavirus, an early split-off from the coronavirus group 2 lineage. <i>Journal of Molecular Biology</i> , 2003 , 331, 991-1004	6.5	947
114	Coronavirus biology and replication: implications for SARS-CoV-2. <i>Nature Reviews Microbiology</i> , 2021 , 19, 155-170	22.2	830
113	Mechanisms and enzymes involved in SARS coronavirus genome expression. <i>Journal of General Virology</i> , 2003 , 84, 2305-2315	4.9	641
112	2 ^{UO} methylation of the viral mRNA cap evades host restriction by IFIT family members. <i>Nature</i> , 2010 , 468, 452-6	50.4	579
111	Ribose 2 ^{UO} -methylation provides a molecular signature for the distinction of self and non-self mRNA dependent on the RNA sensor Mda5. <i>Nature Immunology</i> , 2011 , 12, 137-43	19.1	511
110	Control of coronavirus infection through plasmacytoid dendritic-cell-derived type I interferon. <i>Blood</i> , 2007 , 109, 1131-7	2.2	296
109	Multiple enzymatic activities associated with severe acute respiratory syndrome coronavirus helicase. <i>Journal of Virology</i> , 2004 , 78, 5619-32	6.6	293
108	The SARS-coronavirus-host interactome: identification of cyclophilins as target for pan-coronavirus inhibitors. <i>PLoS Pathogens</i> , 2011 , 7, e1002331	7.6	292
107	TMPRSS2 activates the human coronavirus 229E for cathepsin-independent host cell entry and is expressed in viral target cells in the respiratory epithelium. <i>Journal of Virology</i> , 2013 , 87, 6150-60	6.6	215
106	SARS-CoV-2 spike D614G change enhances replication and transmission. <i>Nature</i> , 2021 , 592, 122-127	50.4	214
105	Major genetic marker of nidoviruses encodes a replicative endoribonuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12694-9	11.5	210
104	Reverse genetics system for the avian coronavirus infectious bronchitis virus. <i>Journal of Virology</i> , 2001 , 75, 12359-69	6.6	207
103	SARS-CoV-2 Nsp1 binds the ribosomal mRNA channel to inhibit translation. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 959-966	17.6	207
102	Rapid reconstruction of SARS-CoV-2 using a synthetic genomics platform. <i>Nature</i> , 2020 , 582, 561-565	50.4	205
101	Infectious RNA transcribed in vitro from a cDNA copy of the human coronavirus genome cloned in vaccinia virus. <i>Journal of General Virology</i> , 2001 , 82, 1273-1281	4.9	200
100	Inactivation of Severe Acute Respiratory Syndrome Coronavirus 2 by WHO-Recommended Hand Rub Formulations and Alcohols. <i>Emerging Infectious Diseases</i> , 2020 , 26, 1592-1595	10.2	194

99	Nucleocapsid Protein Recruitment to Replication-Transcription Complexes Plays a Crucial Role in Coronaviral Life Cycle. <i>Journal of Virology</i> , 2020 , 94,	6.6	174
98	Cyclosporin A inhibits the replication of diverse coronaviruses. <i>Journal of General Virology</i> , 2011 , 92, 2542-2548	7.9	170
97	Coronavirus non-structural protein 1 is a major pathogenicity factor: implications for the rational design of coronavirus vaccines. <i>PLoS Pathogens</i> , 2007 , 3, e109	7.6	167
96	Replication of human coronaviruses SARS-CoV, HCoV-NL63 and HCoV-229E is inhibited by the drug FK506. <i>Virus Research</i> , 2012 , 165, 112-7	6.4	155
95	Efficient replication of the novel human betacoronavirus EMC on primary human epithelium highlights its zoonotic potential. <i>MBio</i> , 2013 , 4, e00611-12	7.8	151
94	Multilevel proteomics reveals host perturbations by SARS-CoV-2 and SARS-CoV. <i>Nature</i> , 2021 , 594, 246-254	9.4	150
93	Evidence for an Ancestral Association of Human Coronavirus 229E with Bats. <i>Journal of Virology</i> , 2015 , 89, 11858-70	6.6	147
92	Sequestration by IFIT1 impairs translation of 2'5'-unmethylated capped RNA. <i>PLoS Pathogens</i> , 2013 , 9, e1003663	7.6	139
91	Early endonuclease-mediated evasion of RNA sensing ensures efficient coronavirus replication. <i>PLoS Pathogens</i> , 2017 , 13, e1006195	7.6	131
90	Attenuation of replication by a 29 nucleotide deletion in SARS-coronavirus acquired during the early stages of human-to-human transmission. <i>Scientific Reports</i> , 2018 , 8, 15177	4.9	130
89	Viral replicase gene products suffice for coronavirus discontinuous transcription. <i>Journal of Virology</i> , 2001 , 75, 6676-81	6.6	122
88	Selective replication of coronavirus genomes that express nucleocapsid protein. <i>Journal of Virology</i> , 2005 , 79, 6620-30	6.6	117
87	Targeting membrane-bound viral RNA synthesis reveals potent inhibition of diverse coronaviruses including the middle East respiratory syndrome virus. <i>PLoS Pathogens</i> , 2014 , 10, e1004166	7.6	113
86	Mouse hepatitis virus liver pathology is dependent on ADP-ribose-1 β -phosphatase, a viral function conserved in the alpha-like supergroup. <i>Journal of Virology</i> , 2008 , 82, 12325-34	6.6	113
85	Virucidal Activity of World Health Organization-Recommended Formulations Against Enveloped Viruses, Including Zika, Ebola, and Emerging Coronaviruses. <i>Journal of Infectious Diseases</i> , 2017 , 215, 902-906	7	110
84	Functional and genetic analysis of coronavirus replicase-transcriptase proteins. <i>PLoS Pathogens</i> , 2005 , 1, e39	7.6	109
83	Isolation and characterization of current human coronavirus strains in primary human epithelial cell cultures reveal differences in target cell tropism. <i>Journal of Virology</i> , 2013 , 87, 6081-90	6.6	107
82	Determination of host proteins composing the microenvironment of coronavirus replicase complexes by proximity-labeling. <i>ELife</i> , 2019 , 8,	8.9	105

81	LY6E impairs coronavirus fusion and confers immune control of viral disease. <i>Nature Microbiology</i> , 2020 , 5, 1330-1339	26.6	98
80	Type I IFN-mediated protection of macrophages and dendritic cells secures control of murine coronavirus infection. <i>Journal of Immunology</i> , 2009 , 182, 1099-106	5.3	97
79	SARS-CoV-2 Variants of Interest and Concern naming scheme conducive for global discourse. <i>Nature Microbiology</i> , 2021 , 6, 821-823	26.6	91
78	Recombinant mouse hepatitis virus strain A59 from cloned, full-length cDNA replicates to high titers in vitro and is fully pathogenic in vivo. <i>Journal of Virology</i> , 2005 , 79, 3097-106	6.6	86
77	Link of a ubiquitous human coronavirus to dromedary camels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9864-9	11.5	84
76	Multilevel proteomics reveals host perturbations by SARS-CoV-2 and SARS-CoV		79
75	SARS-CoV and IFN: Too Little, Too Late. <i>Cell Host and Microbe</i> , 2016 , 19, 139-41	23.4	72
74	Genetic interactions between an essential 3' cis-acting RNA pseudoknot, replicase gene products, and the extreme 3' end of the mouse coronavirus genome. <i>Journal of Virology</i> , 2008 , 82, 1214-28	6.6	71
73	To sense or not to sense viral RNA--essentials of coronavirus innate immune evasion. <i>Current Opinion in Microbiology</i> , 2014 , 20, 69-75	7.9	69
72	The ADP-ribose-1 β monophosphatase domains of severe acute respiratory syndrome coronavirus and human coronavirus 229E mediate resistance to antiviral interferon responses. <i>Journal of General Virology</i> , 2011 , 92, 1899-1905	4.9	67
71	Rapid identification of coronavirus replicase inhibitors using a selectable replicon RNA. <i>Journal of General Virology</i> , 2004 , 85, 1717-1725	4.9	64
70	SARS-CoV-2 mutations in MHC-I-restricted epitopes evade CD8 T cell responses. <i>Science Immunology</i> , 2021 , 6,	28	58
69	The differentiated airway epithelium infected by influenza viruses maintains the barrier function despite a dramatic loss of ciliated cells. <i>Scientific Reports</i> , 2016 , 6, 39668	4.9	57
68	Temperature-dependent surface stability of SARS-CoV-2. <i>Journal of Infection</i> , 2020 , 81, 452-482	18.9	55
67	Reverse genetics of SARS-related coronavirus using vaccinia virus-based recombination. <i>PLoS ONE</i> , 2012 , 7, e32857	3.7	49
66	Structural basis of ribosomal frameshifting during translation of the SARS-CoV-2 RNA genome. <i>Science</i> , 2021 , 372, 1306-1313	33.3	49
65	Genome organization and reverse genetic analysis of a type I feline coronavirus. <i>Journal of Virology</i> , 2008 , 82, 1851-9	6.6	47
64	Multigene RNA vector based on coronavirus transcription. <i>Journal of Virology</i> , 2003 , 77, 9790-8	6.6	40

63	Murine coronavirus ubiquitin-like domain is important for papain-like protease stability and viral pathogenesis. <i>Journal of Virology</i> , 2015 , 89, 4907-17	6.6	38
62	SARS-CoV-2 spike D614G variant confers enhanced replication and transmissibility 2020 ,		38
61	Disparate temperature-dependent virus-host dynamics for SARS-CoV-2 and SARS-CoV in the human respiratory epithelium. <i>PLoS Biology</i> , 2021 , 19, e3001158	9.7	36
60	Organ-specific attenuation of murine hepatitis virus strain A59 by replacement of catalytic residues in the putative viral cyclic phosphodiesterase ns2. <i>Journal of Virology</i> , 2009 , 83, 3743-53	6.6	35
59	Dendritic cell-specific antigen delivery by coronavirus vaccine vectors induces long-lasting protective antiviral and antitumor immunity. <i>MBio</i> , 2010 , 1,	7.8	32
58	Inactivation of Zika virus in human breast milk by prolonged storage or pasteurization. <i>Virus Research</i> , 2017 , 228, 58-60	6.4	24
57	First international external quality assessment of molecular diagnostics for Mers-CoV. <i>Journal of Clinical Virology</i> , 2015 , 69, 81-5	14.5	24
56	Generation of recombinant coronaviruses using vaccinia virus as the cloning vector and stable cell lines containing coronaviral replicon RNAs. <i>Methods in Molecular Biology</i> , 2008 , 454, 237-54	1.4	24
55	Competitive fitness in coronaviruses is not correlated with size or number of double-membrane vesicles under reduced-temperature growth conditions. <i>MBio</i> , 2014 , 5, e01107-13	7.8	23
54	Disparate temperature-dependent virus-host dynamics for SARS-CoV-2 and SARS-CoV in the human respiratory epithelium		23
53	A new era of virus bioinformatics. <i>Virus Research</i> , 2018 , 251, 86-90	6.4	21
52	Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry. <i>Antiviral Research</i> , 2020 , 177, 104774	10.8	19
51	Pentagalloylglucose, a highly bioavailable polyphenolic compound present in Cortex moutan, efficiently blocks hepatitis C virus entry. <i>Antiviral Research</i> , 2017 , 147, 19-28	10.8	18
50	New insights on the role of paired membrane structures in coronavirus replication. <i>Virus Research</i> , 2015 , 202, 33-40	6.4	15
49	Antiviral activity of K22 against members of the order Nidovirales. <i>Virus Research</i> , 2018 , 246, 28-34	6.4	14
48	Identification of an Antiviral Compound from the Pandemic Response Box that Efficiently Inhibits SARS-CoV-2 Infection In Vitro. <i>Microorganisms</i> , 2020 , 8,	4.9	14
47	Research Models and Tools for the Identification of Antivirals and Therapeutics against Zika Virus Infection. <i>Viruses</i> , 2018 , 10,	6.2	14
46	Development of safe and highly protective live-attenuated SARS-CoV-2 vaccine candidates by genome recoding. <i>Cell Reports</i> , 2021 , 36, 109493	10.6	13

45	Enhanced fitness of SARS-CoV-2 variant of concern Alpha but not Beta.. <i>Nature</i> , 2021 ,	50.4	12
44	LY6E impairs coronavirus fusion and confers immune control of viral disease 2020 ,		12
43	No Evidence for Human Monocyte-Derived Macrophage Infection and Antibody-Mediated Enhancement of SARS-CoV-2 Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 644574	5.9	12
42	The SARS-unique domain (SUD) of SARS-CoV and SARS-CoV-2 interacts with human Paip1 to enhance viral RNA translation. <i>EMBO Journal</i> , 2021 , 40, e102277	13	12
41	Physiologic RNA targets and refined sequence specificity of coronavirus EndoU. <i>Rna</i> , 2020 , 26, 1976-1999	8	11
40	SARS-CoV-2 Inhibition by Sulfonated Compounds. <i>Microorganisms</i> , 2020 , 8,	4.9	9
39	Betulonic Acid Derivatives Interfering with Human Coronavirus 229E Replication via the nsp15 Endoribonuclease. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 5632-5644	8.3	9
38	A highly potent antibody effective against SARS-CoV-2 variants of concern. <i>Cell Reports</i> , 2021 , 37, 109814	10.6	9
37	N7-Methylation of the Coronavirus RNA Cap Is Required for Maximal Virulence by Preventing Innate Immune Recognition.. <i>MBio</i> , 2022 , e0366221	7.8	8
36	Structural basis of ribosomal frameshifting during translation of the SARS-CoV-2 RNA genome		8
35	The Small-Compound Inhibitor K22 Displays Broad Antiviral Activity against Different Members of the Family Flaviviridae and Offers Potential as a Panviral Inhibitor. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	8
34	Establishment of Primary Transgenic Human Airway Epithelial Cell Cultures to Study Respiratory Virus-Host Interactions. <i>Viruses</i> , 2019 , 11,	6.2	7
33	Virologists-Heroes need weapons. <i>PLoS Pathogens</i> , 2018 , 14, e1006771	7.6	7
32	Replication and single-cycle delivery of SARS-CoV-2 replicons. <i>Science</i> , 2021 , 374, 1099-1106	33.3	7
31	Rapid reconstruction of SARS-CoV-2 using a synthetic genomics platform		7
30	Identification of five antiviral compounds from the Pandemic Response Box targeting SARS-CoV-2		7
29	The Role of Stress Granules and the Nonsense-mediated mRNA Decay Pathway in Antiviral Defence. <i>Chimia</i> , 2019 , 73, 374-379	1.3	7
28	Live attenuated virus vaccine protects against SARS-CoV-2 variants of concern B.1.1.7 (Alpha) and B.1.351 (Beta). <i>Science Advances</i> , 2021 , 7, eabk0172	14.3	6

27	Enhanced fitness of SARS-CoV-2 variant of concern B.1.1.7, but not B.1.351, in animal models		6
26	Susceptibility of Well-Differentiated Airway Epithelial Cell Cultures from Domestic and Wild Animals to Severe Acute Respiratory Syndrome Coronavirus 2. <i>Emerging Infectious Diseases</i> , 2021 , 27, 1811-1820	10.2	5
25	Synthetic viruses-Anything new?. <i>PLoS Pathogens</i> , 2018 , 14, e1007019	7.6	5
24	SARS-CoV-2 can infect and propagate in human placenta explants. <i>Cell Reports Medicine</i> , 2021 , 100456	18	4
23	Structure-function analysis of the nsp14 N7-guanine methyltransferase reveals an essential role in replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
22	Comprehensive single cell analysis of pandemic influenza A virus infection in the human airways uncovers cell-type specific host transcriptional signatures relevant for disease progression and pathogenesis		4
21	Susceptibility of well-differentiated airway epithelial cell cultures from domestic and wildlife animals to SARS-CoV-2		4
20	A genome-wide CRISPR screen identifies interactors of the autophagy pathway as conserved coronavirus targets		4
19	In-Yeast Assembly of Coronavirus Infectious cDNA Clones Using a Synthetic Genomics Pipeline. <i>Methods in Molecular Biology</i> , 2020 , 2203, 167-184	1.4	4
18	Non-covalent SARS-CoV-2 M inhibitors developed from in silico screen hits.. <i>Scientific Reports</i> , 2022 , 12, 2505	4.9	4
17	Viral RNA in an mA disguise. <i>Nature Microbiology</i> , 2020 , 5, 531-532	26.6	3
16	Successful establishment of a reverse genetic system for QX-type infectious bronchitis virus and technical improvement of the rescue procedure. <i>Virus Research</i> , 2019 , 272, 197726	6.4	3
15	A genome-wide CRISPR screen identifies interactors of the autophagy pathway as conserved coronavirus targets.. <i>PLoS Biology</i> , 2021 , 19, e3001490	9.7	3
14	Betulonic acid derivatives inhibiting coronavirus replication in cell culture via the nsp15 endoribonuclease		3
13	Long distance reverse-transcription PCR. <i>Methods in Molecular Biology</i> , 2002 , 192, 59-66	1.4	2
12	Physiologic RNA Targets and Refined Sequence Specificity of Coronavirus EndoU		2
11	Proximity Labeling for the Identification of Coronavirus-Host Protein Interactions. <i>Methods in Molecular Biology</i> , 2020 , 2203, 187-204	1.4	2
10	An early warning system for emerging SARS-CoV-2 variants. <i>Nature Medicine</i> ,	50.5	2

9	The International Virus Bioinformatics Meeting 2020. <i>Viruses</i> , 2020 , 12,	6.2	1
8	Host switching pathogens, infectious outbreaks and zoonosis: A Marie Skłodowska-Curie innovative training network (HONOURS). <i>Virus Research</i> , 2018 , 257, 120-124	6.4	1
7	Recombinant Lloviu virus as a model to study inaccessible zoonotic viruses		1
6	Convergent use of phosphatidic acid for hepatitis C virus and SARS-CoV-2 replication organelle formation.. <i>Nature Communications</i> , 2021 , 12, 7276	17.4	1
5	The spike gene is a major determinant for the SARS-CoV-2 Omicron-BA.1 phenotype		1
4	Establishment of caprine airway epithelial cells grown in an air-liquid interface system to study caprine respiratory viruses and bacteria. <i>Veterinary Microbiology</i> , 2021 , 257, 109067	3.3	0
3	Functional comparison of MERS-coronavirus lineages reveals increased replicative fitness of the recombinant lineage 5. <i>Nature Communications</i> , 2021 , 12, 5324	17.4	0
2	Efficient recovery of attenuated canine distemper virus from cDNA.. <i>Virus Research</i> , 2022 , 316, 198796	6.4	0
1	Effective Interferon Lambda Treatment Regimen To Control Lethal MERS-CoV Infection in Mice.. <i>Journal of Virology</i> , 2022 , e0036422	6.6	0