

Volker Thiel

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

17,473
citations

36303

51
h-index

30922

102
g-index

130
all docs

130
docs citations

130
times ranked

22875
citing authors

#	ARTICLE	IF	CITATIONS
1	Coronavirus biology and replication: implications for SARS-CoV-2. <i>Nature Reviews Microbiology</i> , 2021, 19, 155-170.	28.6	2,062
2	Dipeptidyl peptidase 4 is a functional receptor for the emerging human coronavirus-EMC. <i>Nature</i> , 2013, 495, 251-254.	27.8	1,731
3	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.	4.2	1,092
4	Mechanisms and enzymes involved in SARS coronavirus genome expression. <i>Journal of General Virology</i> , 2003, 84, 2305-2315.	2.9	767
5	2â€²-O methylation of the viral mRNA cap evades host restriction by IFIT family members. <i>Nature</i> , 2010, 468, 452-456.	27.8	736
6	Ribose 2â€²-O-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, 137-143.	14.5	640
7	Multilevel proteomics reveals host perturbations by SARS-CoV-2 and SARS-CoV. <i>Nature</i> , 2021, 594, 246-252.	27.8	475
8	SARS-CoV-2 spike D614G change enhances replication and transmission. <i>Nature</i> , 2021, 592, 122-127.	27.8	440
9	SARS-CoV-2 Nsp1 binds the ribosomal mRNA channel to inhibit translation. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 959-966.	8.2	432
10	Multiple Enzymatic Activities Associated with Severe Acute Respiratory Syndrome Coronavirus Helicase. <i>Journal of Virology</i> , 2004, 78, 5619-5632.	3.4	384
11	Rapid reconstruction of SARS-CoV-2 using a synthetic genomics platform. <i>Nature</i> , 2020, 582, 561-565.	27.8	377
12	The SARS-Coronavirus-Host Interactome: Identification of Cyclophilins as Target for Pan-Coronavirus Inhibitors. <i>PLoS Pathogens</i> , 2011, 7, e1002331.	4.7	367
13	Control of coronavirus infection through plasmacytoid dendritic-cellâ€™derived type I interferon. <i>Blood</i> , 2007, 109, 1131-1137.	1.4	356
14	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.	4.3	299
15	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, 6150-6160.	3.4	296
16	Nucleocapsid Protein Recruitment to Replication-Transcription Complexes Plays a Crucial Role in Coronaviral Life Cycle. <i>Journal of Virology</i> , 2020, 94, .	3.4	294
17	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, 12694-12699.	7.1	254
18	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.	2.9	239

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19	Reverse Genetics System for the Avian Coronavirus Infectious Bronchitis Virus. <i>Journal of Virology</i> , 2001, 75, 12359-12369.	3.4	237
20	SARS-CoV-2 Variants of Interest and Concern naming scheme conducive for global discourse. <i>Nature Microbiology</i> , 2021, 6, 821-823.	13.3	221
21	Cyclosporin A inhibits the replication of diverse coronaviruses. <i>Journal of General Virology</i> , 2011, 92, 2542-2548.	2.9	215
22	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.	4.7	205
23	Evidence for an Ancestral Association of Human Coronavirus 229E with Bats. <i>Journal of Virology</i> , 2015, 89, 11858-11870.	3.4	204
24	Replication of human coronaviruses SARS-CoV, HCoV-NL63 and HCoV-229E is inhibited by the drug FK506. <i>Virus Research</i> , 2012, 165, 112-117.	2.2	189
25	Early endonuclease-mediated evasion of RNA sensing ensures efficient coronavirus replication. <i>PLoS Pathogens</i> , 2017, 13, e1006195.	4.7	184
26	Efficient Replication of the Novel Human Betacoronavirus EMC on Primary Human Epithelium Highlights Its Zoonotic Potential. <i>MBio</i> , 2013, 4, e00611-12.	4.1	183
27	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.	3.3	181
28	Sequestration by IFIT1 Impairs Translation of 2'-O-unmethylated Capped RNA. <i>PLoS Pathogens</i> , 2013, 9, e1003663.	4.7	175
29	LY6E impairs coronavirus fusion and confers immune control of viral disease. <i>Nature Microbiology</i> , 2020, 5, 1330-1339.	13.3	170
30	Structural basis of ribosomal frameshifting during translation of the SARS-CoV-2 RNA genome. <i>Science</i> , 2021, 372, 1306-1313.	12.6	165
31	Determination of host proteins composing the microenvironment of coronavirus replicase complexes by proximity-labeling. <i>ELife</i> , 2019, 8, .	6.0	157
32	Virucidal Activity of World Health Organizationâ€“Recommended Formulations Against Enveloped Viruses, Including Zika, Ebola, and Emerging Coronaviruses. <i>Journal of Infectious Diseases</i> , 2017, 215, 902-906.	4.0	151
33	SARS-CoV-2 mutations in MHC-I-restricted epitopes evade CD8 ⁺ T cell responses. <i>Science Immunology</i> , 2021, 6, .	11.9	143
34	Mouse Hepatitis Virus Liver Pathology Is Dependent on ADP-Ribose-1- ³ -Phosphatase, a Viral Function Conserved in the Alpha-Like Supergroup. <i>Journal of Virology</i> , 2008, 82, 12325-12334.	3.4	139
35	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.	4.7	136
36	Viral Replicase Gene Products Suffice for Coronavirus Discontinuous Transcription. <i>Journal of Virology</i> , 2001, 75, 6676-6681.	3.4	135

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37	Functional and Genetic Analysis of Coronavirus Replicase-Transcriptase Proteins. <i>PLoS Pathogens</i> , 2005, 1, e39.	4.7	130
38	Selective Replication of Coronavirus Genomes That Express Nucleocapsid Protein. <i>Journal of Virology</i> , 2005, 79, 6620-6630.	3.4	126
39	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, 6081-6090.	3.4	126
40	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, 9864-9869.	7.1	122
41	Type I IFN-Mediated Protection of Macrophages and Dendritic Cells Secures Control of Murine Coronavirus Infection. <i>Journal of Immunology</i> , 2009, 182, 1099-1106.	0.8	113
42	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, 3097-3106.	3.4	101
43	SARS-CoV and IFN: Too Little, Too Late. <i>Cell Host and Microbe</i> , 2016, 19, 139-141.	11.0	90
44	Temperature-dependent surface stability of SARS-CoV-2. <i>Journal of Infection</i> , 2020, 81, 452-482.	3.3	89
45	The ADP-ribose-1 ^{â€³} -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.	2.9	88
46	Genetic Interactions between an Essential ω -Acting RNA Pseudoknot, Replicase Gene Products, and the Extreme 3' End of the Mouse Coronavirus Genome. <i>Journal of Virology</i> , 2008, 82, 1214-1228.	3.4	87
47	To sense or not to sense viral RNA—essentials of coronavirus innate immune evasion. <i>Current Opinion in Microbiology</i> , 2014, 20, 69-75.	5.1	82
48	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.	3.3	81
49	Reverse Genetics of SARS-Related Coronavirus Using Vaccinia Virus-Based Recombination. <i>PLoS ONE</i> , 2012, 7, e32857.	2.5	79
50	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.	5.6	79
51	Enhanced fitness of SARS-CoV-2 variant of concern Alpha but not Beta. <i>Nature</i> , 2022, 602, 307-313.	27.8	79
52	Rapid identification of coronavirus replicase inhibitors using a selectable replicon RNA. <i>Journal of General Virology</i> , 2004, 85, 1717-1725.	2.9	76
53	Genome Organization and Reverse Genetic Analysis of a Type I Feline Coronavirus. <i>Journal of Virology</i> , 2008, 82, 1851-1859.	3.4	51
54	Murine Coronavirus Ubiquitin-Like Domain Is Important for Papain-Like Protease Stability and Viral Pathogenesis. <i>Journal of Virology</i> , 2015, 89, 4907-4917.	3.4	50

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55	A new era of virus bioinformatics. <i>Virus Research</i> , 2018, 251, 86-90.	2.2	49
56	Replication and single-cycle delivery of SARS-CoV-2 replicons. <i>Science</i> , 2021, 374, 1099-1106.	12.6	49
57	An early warning system for emerging SARS-CoV-2 variants. <i>Nature Medicine</i> , 2022, 28, 1110-1115.	30.7	47
58	Development of safe and highly protective live-attenuated SARS-CoV-2 vaccine candidates by genome recoding. <i>Cell Reports</i> , 2021, 36, 109493.	6.4	46
59	Multigene RNA Vector Based on Coronavirus Transcription. <i>Journal of Virology</i> , 2003, 77, 9790-9798.	3.4	41
60	Non-covalent SARS-CoV-2 Mpro inhibitors developed from in silico screen hits. <i>Scientific Reports</i> , 2022, 12, 2505.	3.3	41
61	Dendritic Cell-Specific Antigen Delivery by Coronavirus Vaccine Vectors Induces Long-Lasting Protective Antiviral and Antitumor Immunity. <i>MBio</i> , 2010, 1, .	4.1	40
62	A highly potent antibody effective against SARS-CoV-2 variants of concern. <i>Cell Reports</i> , 2021, 37, 109814.	6.4	39
63	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, 3743-3753.	3.4	37
64	Convergent use of phosphatidic acid for hepatitis C virus and SARS-CoV-2 replication organelle formation. <i>Nature Communications</i> , 2021, 12, 7276.	12.8	37
65	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.	3.9	35
66	A genome-wide CRISPR screen identifies interactors of the autophagy pathway as conserved coronavirus targets. <i>PLoS Biology</i> , 2021, 19, e3001490.	5.6	33
67	Inactivation of Zika virus in human breast milk by prolonged storage or pasteurization. <i>Virus Research</i> , 2017, 228, 58-60.	2.2	32
68	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.	10.3	32
69	Labyrinthopeptins as virolytic inhibitors of respiratory syncytial virus cell entry. <i>Antiviral Research</i> , 2020, 177, 104774.	4.1	30
70	SARS-CoV-2 can infect and propagate in human placenta explants. <i>Cell Reports Medicine</i> , 2021, 2, 100456.	6.5	29
71	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.	4.1	28
72	Pentagalloylglucose, a highly bioavailable polyphenolic compound present in Cortex moutan, efficiently blocks hepatitis C virus entry. <i>Antiviral Research</i> , 2017, 147, 19-28.	4.1	28

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73	First international external quality assessment of molecular diagnostics for Mers-CoV. <i>Journal of Clinical Virology</i> , 2015, 69, 81-85.	3.1	27
74	N7-Methylation of the Coronavirus RNA Cap Is Required for Maximal Virulence by Preventing Innate Immune Recognition. <i>MBio</i> , 2022, 13, e0366221.	4.1	27
75	Betulonic Acid Derivatives Interfering with Human Coronavirus 229E Replication via the nsp15 Endoribonuclease. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 5632-5644.	6.4	26
76	The SARS-CoV-2 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.	7.8	26
77	Generation of Recombinant Coronaviruses Using Vaccinia Virus as the Cloning Vector and Stable Cell Lines Containing Coronavirus Replicon RNAs. <i>Methods in Molecular Biology</i> , 2008, 454, 237-254.	0.9	26
78	Structure-function analysis of the nsp14 N7-guanine methyltransferase reveals an essential role in <i>Betacoronavirus</i> replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	26
79	Identification of an Antiviral Compound from the Pandemic Response Box that Efficiently Inhibits SARS-CoV-2 Infection In Vitro. <i>Microorganisms</i> , 2020, 8, 1872.	3.6	25
80	Physiologic RNA targets and refined sequence specificity of coronavirus EndoU. <i>Rna</i> , 2020, 26, 1976-1999.	3.5	24
81	New insights on the role of paired membrane structures in coronavirus replication. <i>Virus Research</i> , 2015, 202, 33-40.	2.2	19
82	SARS-CoV-2 Inhibition by Sulfonated Compounds. <i>Microorganisms</i> , 2020, 8, 1894.	3.6	19
83	Antiviral activity of K22 against members of the order Nidovirales. <i>Virus Research</i> , 2018, 246, 28-34.	2.2	17
84	Research Models and Tools for the Identification of Antivirals and Therapeutics against Zika Virus Infection. <i>Viruses</i> , 2018, 10, 593.	3.3	16
85	Synthetic viruses—Anything new?. <i>PLoS Pathogens</i> , 2018, 14, e1007019.	4.7	11
86	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.	4.3	11
87	Functional comparison of MERS-coronavirus lineages reveals increased replicative fitness of the recombinant lineage 5. <i>Nature Communications</i> , 2021, 12, 5324.	12.8	11
88	Virologists—Heroes need weapons. <i>PLoS Pathogens</i> , 2018, 14, e1006771.	4.7	11
89	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, .	3.2	9
90	Establishment of Primary Transgenic Human Airway Epithelial Cell Cultures to Study Respiratory Virus-Host Interactions. <i>Viruses</i> , 2019, 11, 747.	3.3	9

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91	The Role of Stress Granules and the Nonsense-mediated mRNA Decay Pathway in Antiviral Defence. <i>Chimia</i> , 2019, 73, 374.	0.6	9
92	Effective Interferon Lambda Treatment Regimen To Control Lethal MERS-CoV Infection in Mice. <i>Journal of Virology</i> , 2022, 96, e0036422.	3.4	8
93	Viral RNA in an m6A disguise. <i>Nature Microbiology</i> , 2020, 5, 531-532.	13.3	5
94	In-Yeast Assembly of Coronavirus Infectious cDNA Clones Using a Synthetic Genomics Pipeline. <i>Methods in Molecular Biology</i> , 2020, 2203, 167-184.	0.9	5
95	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.	2.2	4
96	Proximity Labeling for the Identification of Coronavirus-Host Protein Interactions. <i>Methods in Molecular Biology</i> , 2020, 2203, 187-204.	0.9	4
97	The International Virus Bioinformatics Meeting 2020. <i>Viruses</i> , 2020, 12, 1398.	3.3	3
98	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.	1.9	3
99	Long Distance Reverse-Transcription PCR. , 2002, 192, 059-066.		2
100	Host switching pathogens, infectious outbreaks and zoonosis: A Marie Skłodowska-Curie innovative training network (HONOURS). <i>Virus Research</i> , 2018, 257, 120-124.	2.2	2
101	Efficient recovery of attenuated canine distemper virus from cDNA. <i>Virus Research</i> , 2022, 316, 198796.	2.2	2
102	Systems biology of viral infection. <i>Virus Research</i> , 2016, 218, 1.	2.2	0
103	Emerging and re-emerging porcine viruses. <i>Virus Research</i> , 2020, 290, 198198.	2.2	0