

# John Ziebuhr

## List of Publications by Citations

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76  
papers

9,244  
citations

39  
h-index

83  
g-index

83  
ext. papers

10,941  
ext. citations

8.2  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
76	Coronavirus main proteinase (3CLpro) structure: basis for design of anti-SARS drugs. <i>Science</i> , <b>2003</b> , 300, 1763-7	33.3	1140
75	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> , <b>2003</b> , 331, 991-1004	6.5	947
74	Middle East respiratory syndrome coronavirus (MERS-CoV): announcement of the Coronavirus Study Group. <i>Journal of Virology</i> , <b>2013</b> , 87, 7790-2	6.6	796
73	Virus-encoded proteinases and proteolytic processing in the Nidovirales. <i>Journal of General Virology</i> , <b>2000</b> , 81, 853-79	4.9	697
72	Mechanisms and enzymes involved in SARS coronavirus genome expression. <i>Journal of General Virology</i> , <b>2003</b> , 84, 2305-2315	4.9	641
71	Nidovirales: evolving the largest RNA virus genome. <i>Virus Research</i> , <b>2006</b> , 117, 17-37	6.4	615
70	Structure of coronavirus main proteinase reveals combination of a chymotrypsin fold with an extra alpha-helical domain. <i>EMBO Journal</i> , <b>2002</b> , 21, 3213-24	13	426
69	Discovery of an RNA virus 3S>5Sexoribonuclease that is critically involved in coronavirus RNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 5108-13	11.5	396
68	Design of wide-spectrum inhibitors targeting coronavirus main proteases. <i>PLoS Biology</i> , <b>2005</b> , 3, e324	9.7	392
67	Major genetic marker of nidoviruses encodes a replicative endoribonuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 12694-9	11.5	210
66	Conservation of substrate specificities among coronavirus main proteases. <i>Journal of General Virology</i> , <b>2002</b> , 83, 595-599	4.9	190
65	Molecular biology of severe acute respiratory syndrome coronavirus. <i>Current Opinion in Microbiology</i> , <b>2004</b> , 7, 412-9	7.9	150
64	Multilevel proteomics reveals host perturbations by SARS-CoV-2 and SARS-CoV. <i>Nature</i> , <b>2021</b> , 594, 246-252	52.4	150
63	Crystal structure and mechanistic determinants of SARS coronavirus nonstructural protein 15 define an endoribonuclease family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11892-7	11.5	138
62	Early endonuclease-mediated evasion of RNA sensing ensures efficient coronavirus replication. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006195	7.6	131
61	ADP-ribose-1"-monophosphatase: a conserved coronavirus enzyme that is dispensable for viral replication in tissue culture. <i>Journal of Virology</i> , <b>2005</b> , 79, 12721-31	6.6	122
60	The autocatalytic release of a putative RNA virus transcription factor from its polyprotein precursor involves two paralogous papain-like proteases that cleave the same peptide bond. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 33220-32	5.4	114

59	Direct RNA nanopore sequencing of full-length coronavirus genomes provides novel insights into structural variants and enables modification analysis. <i>Genome Research</i> , <b>2019</b> , 29, 1545-1554	9.7	112
58	The human coronavirus 229E superfamily 1 helicase has RNA and DNA duplex-unwinding activities with 5Sto-3Spolarity. <i>Rna</i> , <b>2000</b> , 6, 1056-68	5.8	112
57	Broad-spectrum antiviral activity of the eIF4A inhibitor silvestrol against corona- and picornaviruses. <i>Antiviral Research</i> , <b>2018</b> , 150, 123-129	10.8	103
56	SARS-CoV-2 Variants of Interest and Concern naming scheme conducive for global discourse. <i>Nature Microbiology</i> , <b>2021</b> , 6, 821-823	26.6	91
55	Mesoniviridae: a proposed new family in the order Nidovirales formed by a single species of mosquito-borne viruses. <i>Archives of Virology</i> , <b>2012</b> , 157, 1623-8	2.6	89
54	An insect nidovirus emerging from a primary tropical rainforest. <i>MBio</i> , <b>2011</b> , 2, e00077-11	7.8	89
53	Biochemical characterization of arterivirus nonstructural protein 11 reveals the nidovirus-wide conservation of a replicative endoribonuclease. <i>Journal of Virology</i> , <b>2009</b> , 83, 5671-82	6.6	82
52	Processing of the human coronavirus 229E replicase polyproteins by the virus-encoded 3C-like proteinase: identification of proteolytic products and cleavage sites common to pp1a and pp1ab. <i>Journal of Virology</i> , <b>1999</b> , 73, 177-85	6.6	78
51	Biochemical characterization of the equine arteritis virus helicase suggests a close functional relationship between arterivirus and coronavirus helicases. <i>Journal of Virology</i> , <b>2000</b> , 74, 9586-93	6.6	70
50	Inhibition of Cytosolic Phospholipase A $\alpha$ Impairs an Early Step of Coronavirus Replication in Cell Culture. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	70
49	The ADP-ribose-1 $\beta$ monophosphatase domains of severe acute respiratory syndrome coronavirus and human coronavirus 229E mediate resistance to antiviral interferon responses. <i>Journal of General Virology</i> , <b>2011</b> , 92, 1899-1905	4.9	67
48	Rapid identification of coronavirus replicase inhibitors using a selectable replicon RNA. <i>Journal of General Virology</i> , <b>2004</b> , 85, 1717-1725	4.9	64
47	The NF- $\kappa$ B-dependent and -independent transcriptome and chromatin landscapes of human coronavirus 229E-infected cells. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006286	7.6	61
46	Identification and characterization of genetically divergent members of the newly established family Mesoniviridae. <i>Journal of Virology</i> , <b>2013</b> , 87, 6346-58	6.6	59
45	Mutational analysis of the active centre of coronavirus 3C-like proteases. <i>Journal of General Virology</i> , <b>2002</b> , 83, 581-593	4.9	57
44	The 3C-like proteinase of an invertebrate nidovirus links coronavirus and potyvirus homologs. <i>Journal of Virology</i> , <b>2003</b> , 77, 1415-26	6.6	55
43	Characterization of White bream virus reveals a novel genetic cluster of nidoviruses. <i>Journal of Virology</i> , <b>2006</b> , 80, 11598-609	6.6	54
42	Nidovirus ribonucleases: Structures and functions in viral replication. <i>RNA Biology</i> , <b>2011</b> , 8, 295-304	4.8	49

41	Influenza virus-induced caspase-dependent enlargement of nuclear pores promotes nuclear export of viral ribonucleoprotein complexes. <i>Journal of Virology</i> , <b>2015</b> , 89, 6009-21	6.6	46
40	Human coronavirus 229E papain-like proteases have overlapping specificities but distinct functions in viral replication. <i>Journal of Virology</i> , <b>2007</b> , 81, 3922-32	6.6	44
39	Identification and Characterization of a Human Coronavirus 229E Nonstructural Protein 8-Associated RNA 3STerminal Adenylyltransferase Activity. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	41
38	Identification of protease and ADP-ribose 1Smonophosphatase activities associated with transmissible gastroenteritis virus non-structural protein 3. <i>Journal of General Virology</i> , <b>2006</b> , 87, 651-656	4.9	40
37	Coronavirus replication-transcription complex: Vital and selective NMPylation of a conserved site in nsp9 by the NiRAN-RdRp subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	39
36	Rational Design of Novel Highly Potent and Selective Phosphatidylinositol 4-Kinase III(PI4KB) Inhibitors as Broad-Spectrum Antiviral Agents and Tools for Chemical Biology. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 100-118	8.3	34
35	In Silico Prediction and Experimental Confirmation of HA Residues Conferring Enhanced Human Receptor Specificity of H5N1 Influenza A Viruses. <i>Scientific Reports</i> , <b>2015</b> , 5, 11434	4.9	32
34	RNA structure analysis of alphacoronavirus terminal genome regions. <i>Virus Research</i> , <b>2014</b> , 194, 76-89	6.4	27
33	Structural and functional conservation of cis-acting RNA elements in coronavirus 5STerminal genome regions. <i>Virology</i> , <b>2018</b> , 517, 44-55	3.6	27
32	Comparison of broad-spectrum antiviral activities of the synthetic rocaglate CR-31-B (-) and the eIF4A-inhibitor Silvestrol. <i>Antiviral Research</i> , <b>2020</b> , 175, 104706	10.8	22
31	Multi-level inhibition of coronavirus replication by chemical ER stress. <i>Nature Communications</i> , <b>2021</b> , 12, 5536	17.4	19
30	Transcription attenuation-derived small RNA rnTrpL regulates tryptophan biosynthesis gene expression in trans. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 6396-6410	20.1	17
29	Characterization of Bafinivirus main protease autoprocessing activities. <i>Journal of Virology</i> , <b>2011</b> , 85, 1348-59	6.6	17
28	Structure-Activity Relationships of Benzamides and Isoindolines Designed as SARS-CoV Protease Inhibitors Effective against SARS-CoV-2. <i>ChemMedChem</i> , <b>2021</b> , 16, 340-354	3.7	17
27	D, L-lysine acetylsalicylate + glycine Impairs Coronavirus Replication. <i>Journal of Antivirals &amp; Antiretrovirals</i> , <b>2016</b> , 08,	2	16
26	Conflicting and ambiguous names of overlapping ORFs in the SARS-CoV-2 genome: A homology-based resolution. <i>Virology</i> , <b>2021</b> , 558, 145-151	3.6	15
25	Antiviral activity of K22 against members of the order Nidovirales. <i>Virus Research</i> , <b>2018</b> , 246, 28-34	6.4	14
24	Phylogenetic analysis of human influenza A/H3N2 viruses isolated in 2015 in Germany indicates significant genetic divergence from vaccine strains. <i>Archives of Virology</i> , <b>2016</b> , 161, 1505-15	2.6	12

23	Characterization of an alphamesonivirus 3C-like protease defines a special group of nidovirus main proteases. <i>Journal of Virology</i> , <b>2014</b> , 88, 13747-58	6.6	12
22	The rocaglate CR-31-B (-) inhibits SARS-CoV-2 replication at non-cytotoxic, low nanomolar concentrations in vitro and ex vivo. <i>Antiviral Research</i> , <b>2021</b> , 186, 105012	10.8	12
21	The PB1 segment of an influenza A virus H1N1 2009pdm isolate enhances the replication efficiency of specific influenza vaccine strains in cell culture and embryonated eggs. <i>Journal of General Virology</i> , <b>2016</b> , 97, 620-631	4.9	11
20	Identification of specific residues in avian influenza A virus NS1 that enhance viral replication and pathogenicity in mammalian systems. <i>Journal of General Virology</i> , <b>2016</b> , 97, 2135-2148	4.9	10
19	Hallmarks of and non-structural protein 7+8 complexes. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	9
18	Studies of nosocomial outbreaks of hepatitis B in nursing homes in Germany suggest a major role of hepatitis B e antigen expression in disease severity and progression. <i>International Journal of Medical Microbiology</i> , <b>2015</b> , 305, 663-72	3.7	8
17	Characterization of a bafinivirus exoribonuclease activity. <i>Journal of General Virology</i> , <b>2018</b> , 99, 1253-1260	4.9	8
16	Reverse Genetics for Type I Feline Coronavirus Field Isolate To Study the Molecular Pathogenesis of Feline Infectious Peritonitis. <i>MBio</i> , <b>2018</b> , 9,	7.8	7
15	Development and evaluation of reverse transcription loop-mediated isothermal amplification assay for the detection of the fathead minnow nidovirus. <i>Journal of Virological Methods</i> , <b>2014</b> , 202, 39-45	2.6	7
14	Coronavirus Replicative Proteins <b>2014</b> , 65-81		7
13	Targeting the DEAD-Box RNA Helicase eIF4A with Rocaglates-A Pan-Antiviral Strategy for Minimizing the Impact of Future RNA Virus Pandemics. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	6
12	Structural basis for catalysis and substrate specificity of a 3C-like cysteine protease from a mosquito mesonivirus. <i>Virology</i> , <b>2019</b> , 533, 21-33	3.6	5
11	Proteolytic processing of mesonivirus replicase polyproteins by the viral 3C-like protease. <i>Journal of General Virology</i> , <b>2016</b> , 97, 1439-1445	4.9	5
10	Immunoglobulin deficiency as an indicator of disease severity in patients with COVID-19. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2021</b> , 320, L590-L599	5.8	5
9	Characterization of the 3rd International Standard for hepatitis B virus surface antigen (HBsAg). <i>Journal of Clinical Virology</i> , <b>2016</b> , 82, 166-172	14.5	4
8	Coronaviruses, Toroviruses, and Arteriviruses		4
7	A Single-Center Study of Viral Respiratory Tract Infections in Hospitalized Children From the Kurdistan Region of Iraq. <i>Global Pediatric Health</i> , <b>2018</b> , 5, 2333794X18784996	1.2	3
6	Identification and characterization of a Golgi retention signal in feline coronavirus accessory protein 7b. <i>Journal of General Virology</i> , <b>2017</b> , 98, 2017-2029	4.9	3

5	Reprogramming of sRNA target specificity by the leader peptide peTrpL in response to antibiotic exposure. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 2894-2915	20.1	3
4	Inhibition of SARS-CoV-2 coronavirus proliferation by designer antisense-circRNAs. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 12502-12516	20.1	2
3	IFITM3 Interacts with the HBV/HDV Receptor NTCP and Modulates Virus Entry and Infection.. <i>Viruses</i> , <b>2022</b> , 14,	6.2	2
2	Rocaglates as Antivirals: Comparing the Effects on Viral Resistance, Anti-Coronaviral Activity, RNA-Clamping on eIF4A and Immune Cell Toxicity.. <i>Viruses</i> , <b>2022</b> , 14,	6.2	2
1	Characterization of monoclonal antibodies against feline coronavirus accessory protein 7b. <i>Veterinary Microbiology</i> , <b>2016</b> , 184, 11-9	3.3	1