

Krzysztof Pyrc

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

8,850
citations

70961

41
h-index

46693

89
g-index

124
all docs

124
docs citations

124
times ranked

13769
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of a new human coronavirus. <i>Nature Medicine</i> , 2004, 10, 368-373.	15.2	1,573
2	Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	1,279
3	Human coronavirus NL63 employs the severe acute respiratory syndrome coronavirus receptor for cellular entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7988-7993.	3.3	679
4	Human Coronavirus NL63 Utilizes Heparan Sulfate Proteoglycans for Attachment to Target Cells. <i>Journal of Virology</i> , 2014, 88, 13221-13230.	1.5	257
5	Croup Is Associated with the Novel Coronavirus NL63. <i>PLoS Medicine</i> , 2005, 2, e240.	3.9	239
6	Small-molecule inhibitors of PD-1/PD-L1 immune checkpoint alleviate the PD-L1-induced exhaustion of T-cells. <i>Oncotarget</i> , 2017, 8, 72167-72181.	0.8	221
7	Human Coronavirus HKU1 Spike Protein Uses α -Acetylated Sialic Acid as an Attachment Receptor Determinant and Employs Hemagglutinin-Esterase Protein as a Receptor-Destroying Enzyme. <i>Journal of Virology</i> , 2015, 89, 7202-7213.	1.5	218
8	<i>Porphyromonas gingivalis</i> Facilitates the Development and Progression of Destructive Arthritis through Its Unique Bacterial Peptidylarginine Deiminase (PAD). <i>PLoS Pathogens</i> , 2013, 9, e1003627.	2.1	212
9	The Novel Human Coronaviruses NL63 and HKU1. <i>Journal of Virology</i> , 2007, 81, 3051-3057.	1.5	210
10	Human Coronavirus NL63 and 229E Seroconversion in Children. <i>Journal of Clinical Microbiology</i> , 2008, 46, 2368-2373.	1.8	171
11	Human coronavirus NL63, a new respiratory virus. <i>FEMS Microbiology Reviews</i> , 2006, 30, 760-773.	3.9	163
12	Entry of Human Coronavirus NL63 into the Cell. <i>Journal of Virology</i> , 2018, 92, .	1.5	162
13	Mosaic Structure of Human Coronavirus NL63, One Thousand Years of Evolution. <i>Journal of Molecular Biology</i> , 2006, 364, 964-973.	2.0	149
14	A novel pancoronavirus RT-PCR assay: frequent detection of human coronavirus NL63 in children hospitalized with respiratory tract infections in Belgium. <i>BMC Infectious Diseases</i> , 2005, 5, 6.	1.3	143
15	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): a Systemic Infection. <i>Clinical Microbiology Reviews</i> , 2021, 34, .	5.7	136
16	Replication-dependent downregulation of cellular angiotensin-converting enzyme 2 protein expression by human coronavirus NL63. <i>Journal of General Virology</i> , 2012, 93, 1924-1929.	1.3	128
17	Culturing the Unculturable: Human Coronavirus HKU1 Infects, Replicates, and Produces Progeny Virions in Human Ciliated Airway Epithelial Cell Cultures. <i>Journal of Virology</i> , 2010, 84, 11255-11263.	1.5	120
18	Inhibition of Human Coronavirus NL63 Infection at Early Stages of the Replication Cycle. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 2000-2008.	1.4	113

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19	Genome structure and transcriptional regulation of human coronavirus NL63. <i>Virology Journal</i> , 2004, 1, 7.	1.4	104
20	APOBEC3-mediated restriction of RNA virus replication. <i>Scientific Reports</i> , 2018, 8, 5960.	1.6	103
21	Early events during human coronavirus OC43 entry to the cell. <i>Scientific Reports</i> , 2018, 8, 7124.	1.6	101
22	The Strategies to Support the COVID-19 Vaccination with Evidence-Based Communication and Tackling Misinformation. <i>Vaccines</i> , 2021, 9, 109.	2.1	97
23	Identification of new human coronaviruses. <i>Expert Review of Anti-Infective Therapy</i> , 2007, 5, 245-253.	2.0	90
24	The inhibitory effect of secretory leukocyte protease inhibitor (SLPI) on formation of neutrophil extracellular traps. <i>Journal of Leukocyte Biology</i> , 2015, 98, 99-106.	1.5	72
25	The SARS-CoV-2 ORF10 is not essential in vitro or in vivo in humans. <i>PLoS Pathogens</i> , 2020, 16, e1008959.	2.1	71
26	HTCC: Broad Range Inhibitor of Coronavirus Entry. <i>PLoS ONE</i> , 2016, 11, e0156552.	1.1	67
27	Novel polymeric inhibitors of HCoV-NL63. <i>Antiviral Research</i> , 2013, 97, 112-121.	1.9	66
28	HTCC as a Polymeric Inhibitor of SARS-CoV-2 and MERS-CoV. <i>Journal of Virology</i> , 2021, 95, .	1.5	64
29	Altered cytokine levels and immune responses in patients with SARS-CoV-2 infection and related conditions. <i>Cytokine</i> , 2020, 133, 155143.	1.4	64
30	Canine Respiratory Coronavirus, Bovine Coronavirus, and Human Coronavirus OC43: Receptors and Attachment Factors. <i>Viruses</i> , 2019, 11, 328.	1.5	63
31	Gingipains: Critical Factors in the Development of Aspiration Pneumonia Caused by <i>Porphyromonas gingivalis</i> . <i>Journal of Innate Immunity</i> , 2016, 8, 185-198.	1.8	62
32	Membrane Protein of Human Coronavirus NL63 Is Responsible for Interaction with the Adhesion Receptor. <i>Journal of Virology</i> , 2019, 93, .	1.5	60
33	Citrullination Alters Immunomodulatory Function of LL-37 Essential for Prevention of Endotoxin-Induced Sepsis. <i>Journal of Immunology</i> , 2014, 192, 5363-5372.	0.4	59
34	Human Parechovirus Type 1, 3, 4, 5, and 6 Detection in Picornavirus Cultures. <i>Journal of Clinical Microbiology</i> , 2008, 46, 759-762.	1.8	53
35	Virus Like Particles as Immunogens and Universal Nanocarriers. <i>Polish Journal of Microbiology</i> , 2015, 64, 3-13.	0.6	52
36	Biopolymeric nano/microspheres for selective and reversible adsorption of coronaviruses. <i>Materials Science and Engineering C</i> , 2017, 76, 735-742.	3.8	51

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37	Replication of Severe Acute Respiratory Syndrome Coronavirus 2 in Human Respiratory Epithelium. <i>Journal of Virology</i> , 2020, 94, .	1.5	51
38	Effects of host genetic variations on response to, susceptibility and severity of respiratory infections. <i>Biomedicine and Pharmacotherapy</i> , 2020, 128, 110296.	2.5	50
39	Inactivation of Epidermal Growth Factor by <i>Porphyromonas gingivalis</i> as a Potential Mechanism for Periodontal Tissue Damage. <i>Infection and Immunity</i> , 2013, 81, 55-64.	1.0	46
40	Substrate profiling of Zika virus <sc>NS</sc>2Bâ€<sc>NS</sc>3 protease. <i>FEBS Letters</i> , 2016, 590, 3459-3468.	1.3	45
41	Infection with human coronavirus NL63 enhances streptococcal adherence to epithelial cells. <i>Journal of General Virology</i> , 2011, 92, 1358-1368.	1.3	44
42	Angiotensin converting enzyme: A review on expression profile and its association with human disorders with special focus on SARS-CoV-2 infection. <i>Vascular Pharmacology</i> , 2020, 130, 106680.	1.0	44
43	Seleno-Functionalization of Quercetin Improves the Non-Covalent Inhibition of Mpro and Its Antiviral Activity in Cells against SARS-CoV-2. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7048.	1.8	44
44	Identification of cell lines permissive for human coronavirus NL63. <i>Journal of Virological Methods</i> , 2006, 138, 207-210.	1.0	41
45	Development of loop-mediated isothermal amplification assay for detection of human coronavirus-NL63. <i>Journal of Virological Methods</i> , 2011, 175, 133-136.	1.0	40
46	Human coronavirus 229E encodes a single ORF4 protein between the spike and the envelope genes. <i>Virology Journal</i> , 2006, 3, 106.	1.4	37
47	<i>Staphylococcus aureus</i> Proteases Degrade Lung Surfactant Protein A Potentially Impairing Innate Immunity of the Lung. <i>Journal of Innate Immunity</i> , 2013, 5, 251-260.	1.8	36
48	Novel coronavirus-like particles targeting cells lining the respiratory tract. <i>PLoS ONE</i> , 2018, 13, e0203489.	1.1	36
49	Acriflavine, a clinically approved drug, inhibits SARS-CoV-2 and other betacoronaviruses. <i>Cell Chemical Biology</i> , 2022, 29, 774-784.e8.	2.5	34
50	Canine respiratory coronavirus employs caveolin-1-mediated pathway for internalization to HRT-18C cells. <i>Veterinary Research</i> , 2018, 49, 55.	1.1	31
51	SARS-CoV-2 inhibition using a mucoadhesive, amphiphilic chitosan that may serve as an anti-viral nasal spray. <i>Scientific Reports</i> , 2021, 11, 20012.	1.6	31
52	Structural Characterization of Human Coronavirus NL63 N Protein. <i>Journal of Virology</i> , 2017, 91, .	1.5	28
53	Antiviral Strategies Against Human Coronaviruses. <i>Infectious Disorders - Drug Targets</i> , 2007, 7, 59-66.	0.4	27
54	Human Coronavirus NL63 Infection is Associated with Croup. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 485-491.	0.8	27

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55	Detection of New Viruses by VIDISCA. <i>Methods in Molecular Biology</i> , 2008, 454, 73-89.	0.4	27
56	Antiviral Cyanometabolites – A Review. <i>Biomolecules</i> , 2021, 11, 474.	1.8	24
57	Expansion of a SARS-CoV-2 Delta variant with an 872 nt deletion encompassing ORF7a, ORF7b and ORF8, Poland, July to August 2021. <i>Eurosurveillance</i> , 2021, 26, .	3.9	24
58	Zoonotic spill-over of SARS-CoV-2: mink-adapted virus in humans. <i>Clinical Microbiology and Infection</i> , 2022, 28, 451.e1-451.e4.	2.8	24
59	The Nucleocapsid Protein of Human Coronavirus NL63. <i>PLoS ONE</i> , 2015, 10, e0117833.	1.1	23
60	Bacterial Proteases in Disease – Role in Intracellular Survival, Evasion of Coagulation/ Fibrinolysis Innate Defenses, Toxicoses and Viral Infections. <i>Current Pharmaceutical Design</i> , 2012, 19, 1090-1113.	0.9	23
61	Performance of electrochemical immunoassays for clinical diagnostics of SARS-CoV-2 based on selective nucleocapsid N protein detection: Boron-doped diamond, gold and glassy carbon evaluation. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114222.	5.3	23
62	Zika virus: mapping and reprogramming the entry. <i>Cell Communication and Signaling</i> , 2019, 17, 41.	2.7	22
63	MASS SPECTROMETRY IN VIROLOGICAL SCIENCES. <i>Mass Spectrometry Reviews</i> , 2020, 39, 499-522.	2.8	22
64	Interaction Between the Spike Protein of Human Coronavirus NL63 and its Cellular Receptor ACE2. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 281-284.	0.8	21
65	Virus Like Particles as Immunogens and Universal Nanocarriers. <i>Polish Journal of Microbiology</i> , 2015, 64, 3-13.	0.6	21
66	CRISPR-Cas Systems in Prokaryotes. <i>Polish Journal of Microbiology</i> , 2015, 64, 193-202.	0.6	20
67	Refolding of lid subdomain of SARS-CoV-2 nsp14 upon nsp10 interaction releases exonuclease activity. <i>Structure</i> , 2022, 30, 1050-1054.e2.	1.6	20
68	Functional Analysis of Porphyromonas gingivalis W83 CRISPR-Cas Systems. <i>Journal of Bacteriology</i> , 2015, 197, 2631-2641.	1.0	18
69	Berberine Hampers Influenza A Replication through Inhibition of MAPK/ERK Pathway. <i>Viruses</i> , 2020, 12, 344.	1.5	18
70	In search for effective and definitive treatment of herpes simplex virus type 1 (HSV-1) infections. <i>RSC Advances</i> , 2016, 6, 1058-1075.	1.7	17
71	Synthetic sulfonated derivatives of poly(allylamine hydrochloride) as inhibitors of human metapneumovirus. <i>PLoS ONE</i> , 2019, 14, e0214646.	1.1	17
72	Electrochemical Immunosensors Based on Screen-Printed Gold and Glassy Carbon Electrodes: Comparison of Performance for Respiratory Syncytial Virus Detection. <i>Biosensors</i> , 2020, 10, 175.	2.3	16

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73	Novel Polyanions Inhibiting Replication of Influenza Viruses. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 1955-1966.	1.4	14
74	Inhibition of Herpes Simplex Viruses by Cationic Dextran Derivatives. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 8620-8630.	2.9	14
75	Phosphonate inhibitors of West Nile virus NS2B/NS3 protease. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 8-14.	2.5	14
76	Cat flu: Broad spectrum polymeric antivirals. <i>Antiviral Research</i> , 2019, 170, 104563.	1.9	12
77	Use of Sensitive, Broad-Spectrum Molecular Assays and Human Airway Epithelium Cultures for Detection of Respiratory Pathogens. <i>PLoS ONE</i> , 2012, 7, e32582.	1.1	11
78	Functional Severe Acute Respiratory Syndrome Coronavirus 2 Virus-Like Particles From Insect Cells. <i>Frontiers in Microbiology</i> , 2021, 12, 732998.	1.5	11
79	Recent antiviral strategies against human coronavirus-related respiratory illnesses. <i>Current Opinion in Pulmonary Medicine</i> , 2008, 14, 248-253.	1.2	10
80	Highly Effective and Safe Polymeric Inhibitors of Herpes Simplex Virus in Vitro and in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26745-26752.	4.0	10
81	Kallikrein 13 serves as a priming protease during infection by the human coronavirus HKU1. <i>Science Signaling</i> , 2020, 13, .	1.6	10
82	Stability of infectious human coronavirus NL63. <i>Journal of Virological Methods</i> , 2014, 205, 87-90.	1.0	9
83	Tuning the Surface Properties of Poly(Allylamine Hydrochloride)-Based Multilayer Films. <i>Materials</i> , 2021, 14, 2361.	1.3	9
84	Ozone Treatment Is Insufficient to Inactivate SARS-CoV-2 Surrogate under Field Conditions. <i>Antioxidants</i> , 2021, 10, 1480.	2.2	9
85	Characterization of SARS-CoV-2 replication complex elongation and proofreading activity. <i>Scientific Reports</i> , 2022, 12, .	1.6	9
86	One Step Beyond: Design of Substrates Spanning Primed Positions of Zika Virus NS2B-NS3 Protease. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 1025-1029.	1.3	8
87	Attachment Factor and Receptor Engagement of Sars Coronavirus and Human Coronavirus NL63. <i>Advances in Experimental Medicine and Biology</i> , 2006, 581, 219-227.	0.8	8
88	Identification of Cellular Factors Required for SARS-CoV-2 Replication. <i>Cells</i> , 2021, 10, 3159.	1.8	8
89	Battle at the entrance gate: CIITA as a weapon to prevent the internalization of SARS-CoV-2 and Ebola viruses. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 278.	7.1	7
90	First Lung Transplantation As A Treatment of A Patient Supported with Extracorporeal Membrane Oxygenation (ECMO) after COVID-19 in Poland. <i>Advances in Respiratory Medicine</i> , 2021, 89, 328-333.	0.5	7

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91	Visualization of SARS-CoV-2 using Immuno RNA-Fluorescence In Situ Hybridization. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	7
92	SARS-CoV-2 infects an in vitro model of the human developing pancreas through endocytosis. <i>IScience</i> , 2022, 25, 104594.	1.9	7
93	<i>Porphyromonas gingivalis</i> enzymes enhance infection with human metapneumovirus in vitro. <i>Journal of General Virology</i> , 2011, 92, 2324-2332.	1.3	6
94	Clustered Regularly Interspaced Short Palindromic Repeat (CRISPR) RNAs in the <i>Porphyromonas gingivalis</i> CRISPR-Cas I-C System. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	6
95	Novel peptidyl Î±-aminoalkylphosphonates as inhibitors of hepatitis C virus NS3/4A protease. <i>Antiviral Research</i> , 2017, 144, 286-298.	1.9	5
96	AI Aided Design of Epitope-Based Vaccine for the Induction of Cellular Immune Responses Against SARS-CoV-2. <i>Frontiers in Genetics</i> , 2021, 12, 602196.	1.1	5
97	L-Arginine Improves Solubility and ANTI SARS-CoV-2 Mpro Activity of Rutin but Not the Antiviral Activity in Cells. <i>Molecules</i> , 2021, 26, 6062.	1.7	4
98	Detection of legal highs in the urine of methadone-treated patient by LC-MS. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2019, 125, 253-258.	1.2	3
99	In Vitro Inhibition of Zika Virus Replication with Poly(Sodium 4-Styrenesulfonate). <i>Viruses</i> , 2020, 12, 926.	1.5	3
100	Self-Organized Nanoparticles of Random and Block Copolymers of Sodium 2-(Acrylamido)-2-methyl-1-propanesulfonate and Sodium 11-(Acrylamido)undecanoate as Safe and Effective Zika Virus Inhibitors. <i>Pharmaceutics</i> , 2022, 14, 309.	2.0	3
101	Can we define CD3+CD56+ cells as NKT cells with impunity?. <i>Clinical Immunology</i> , 2021, 226, 108708.	1.4	2
102	Vaccination versus SARS-CoV-2 Omicron: three vaccine doses win the battle. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 140.	7.1	2
103	<i>Pseudanabaena galeata</i> CCNP1313 Biological Activity and Peptides Production. <i>Toxins</i> , 2022, 14, 330.	1.5	2
104	Human Intramuscular Hyperimmune Gamma Globulin (hIHGG) Anti-SARS-CoV-2 Characteristics of Intermediates and Final Product. <i>Viruses</i> , 2022, 14, 1328.	1.5	2
105	Effectiveness of Lung Transplantation in Patients With Interstitial Lung Diseases. <i>Transplantation Proceedings</i> , 2020, 52, 2143-2148.	0.3	1
106	Mass Spectrometry versus Conventional Techniques of Protein Detection: Zika Virus NS3 Protease Activity towards Cellular Proteins. <i>Molecules</i> , 2021, 26, 3732.	1.7	1
107	Type III CRISPR complexes from <i>Thermus thermophilus</i> .. <i>Acta Biochimica Polonica</i> , 2016, 63, 377-86.	0.3	1
108	HexaPrime: A novel method for detection of coronaviruses. <i>Journal of Virological Methods</i> , 2013, 188, 29-36.	1.0	0

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109	07.14â€¦Novel polymorphism of peptidylarginine deiminase from p. gingivalis augments bacterial pathogenicity and severity of periodontitis. , 2017, , .		0
110	Endosomal compartmentation and the transport route of Zika virus. , 2021, , 419-430.		0
111	Nonstructural Proteins of Human Coronavirus NL63. Advances in Experimental Medicine and Biology, 2006, 581, 97-100.	0.8	0
112	Visualizing Coronavirus Entry into Cells. Methods in Molecular Biology, 2020, 2203, 241-261.	0.4	0