

# Daniel Ruzek

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9409976/publications.pdf>

Version: 2024-02-01

124  
papers

4,593  
citations

117571

34  
h-index

123376

61  
g-index

134  
all docs

134  
docs citations

134  
times ranked

5192  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In silico</i> and <i>in vitro</i> evaluation of imatinib as an inhibitor for SARS-CoV-2. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 3052-3061.	2.0	5
2	Evaluation of two artificial infection methods of live ticks as tools for studying interactions between tick-borne viruses and their tick vectors. <i>Scientific Reports</i> , 2022, 12, 491.	1.6	12
3	Collective behavior of magnetic microrobots through immuno-sandwich assay: On-the-fly COVID-19 sensing. <i>Applied Materials Today</i> , 2022, 26, 101337.	2.3	34
4	Monoclonal antibodies targeting two immunodominant epitopes on the Spike protein neutralize emerging SARS-CoV-2 variants of concern. <i>EBioMedicine</i> , 2022, 76, 103818.	2.7	14
5	Diphyllin Shows a Broad-Spectrum Antiviral Activity against Multiple Medically Important Enveloped RNA and DNA Viruses. <i>Viruses</i> , 2022, 14, 354.	1.5	8
6	Guanine quadruplexes in the RNA genome of the tick-borne encephalitis virus: their role as a new antiviral target and in virus biology. <i>Nucleic Acids Research</i> , 2022, 50, 4574-4600.	6.5	11
7	A Helquat-like Compound as a Potent Inhibitor of Flaviviral and Coronaviral Polymerases. <i>Molecules</i> , 2022, 27, 1894.	1.7	3
8	Serum and cerebrospinal fluid phosphorylated neurofilament heavy subunit as a marker of neuroaxonal damage in tick-borne encephalitis. <i>Journal of General Virology</i> , 2022, 103, .	1.3	3
9	Chapter 2a: Virology. <i>Tick-borne Encephalitis - the Book</i> , 2022, , .	0.0	0
10	Dynamics of Whole Virus and Non-Structural Protein 1 (NS1) IgG Response in Mice Immunized with Two Commercial Tick-Borne Encephalitis Vaccines. <i>Vaccines</i> , 2022, 10, 1001.	2.1	4
11	Sero-epidemiology of tick-borne encephalitis in small ruminants in the Czech Republic. <i>Ticks and Tick-borne Diseases</i> , 2022, 13, 101996.	1.1	3
12	Development and characterization of recombinant tick-borne encephalitis virus expressing mCherry reporter protein: A new tool for high-throughput screening of antiviral compounds, and neutralizing antibody assays. <i>Antiviral Research</i> , 2021, 185, 104968.	1.9	9
13	Broad-Spectrum Antiviral Activity of 3-Deoxy-3-Fluoroadenosine against Emerging Flaviviruses. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	13
14	The Role of Peridomestic Animals in the Eco-Epidemiology of <i>Anaplasma phagocytophilum</i> . <i>Microbial Ecology</i> , 2021, 82, 602-612.	1.4	17
15	Immunity to TBEV Related Flaviviruses with Reduced Pathogenicity Protects Mice from Disease but Not from TBEV Entry into the CNS. <i>Vaccines</i> , 2021, 9, 196.	2.1	6
16	Antiviral Activity of Vacuolar ATPase Blocker Diphyllin against SARS-CoV-2. <i>Microorganisms</i> , 2021, 9, 471.	1.6	14
17	Spiroplasma Isolated From Third-Generation Laboratory Colony <i>Ixodes persulcatus</i> Ticks. <i>Frontiers in Veterinary Science</i> , 2021, 8, 659786.	0.9	3
18	Bispecific IgG neutralizes SARS-CoV-2 variants and prevents escape in mice. <i>Nature</i> , 2021, 593, 424-428.	13.7	108

#	ARTICLE	IF	CITATIONS
19	Broad and potent neutralizing human antibodies to tick-borne flaviviruses protect mice from disease. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	25
20	Compelling Evidence for the Activity of Antiviral Peptides against SARS-CoV-2. <i>Viruses</i> , 2021, 13, 912.	1.5	16
21	Hedgehogs and Squirrels as Hosts of Zoonotic Bartonella Species. <i>Pathogens</i> , 2021, 10, 686.	1.2	8
22	Clinical Characteristics of Patients with Tick-Borne Encephalitis (TBE): A European Multicentre Study from 2010 to 2017. <i>Microorganisms</i> , 2021, 9, 1420.	1.6	36
23	A dark side to NS1 antibodies?. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	2
24	Hepatozoon in Eurasian red squirrels <i>Sciurus vulgaris</i> , its taxonomic identity, and phylogenetic placement. <i>Parasitology Research</i> , 2021, 120, 2989-2993.	0.6	3
25	Tick-Borne Encephalitis in an 8.5-Month-Old Boy Suspected of Febrile Seizures. <i>Microorganisms</i> , 2021, 9, 1425.	1.6	4
26	Successful early treatment combining remdesivir with high-titer convalescent plasma among COVID-19-infected hematological patients. <i>Hematological Oncology</i> , 2021, 39, 715-720.	0.8	9
27	Non-Nucleotide RNA-Dependent RNA Polymerase Inhibitor That Blocks SARS-CoV-2 Replication. <i>Viruses</i> , 2021, 13, 1585.	1.5	22
28	Antiviral Activity of 7-Substituted 7-Deazapurine Ribonucleosides, Monophosphate Prodrugs, and Triphosphates against Emerging RNA Viruses. <i>ACS Infectious Diseases</i> , 2021, 7, 471-478.	1.8	22
29	Experimental and Natural Infections of Tick-Borne Encephalitis Virus in Dogs. <i>Viruses</i> , 2021, 13, 2039.	1.5	6
30	Could 5'-N and S ProTide analogues work as prodrugs of antiviral agents?. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 126897.	1.0	3
31	Vertebrate viruses in polar ecosystems. , 2020, , 126-148.		0
32	Comprehensive N-glycosylation mapping of envelope glycoprotein from tick-borne encephalitis virus grown in human and tick cells. <i>Scientific Reports</i> , 2020, 10, 13204.	1.6	10
33	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
34	Advanced Therapeutics, Vaccinations, and Precision Medicine in the Treatment and Management of Chronic Hepatitis B Viral Infections; Where Are We and Where Are We Going?. <i>Viruses</i> , 2020, 12, 998.	1.5	14
35	Hedgehogs, Squirrels, and Blackbirds as Sentinel Hosts for Active Surveillance of <i>Borrelia miyamotoi</i> and <i>Borrelia burgdorferi</i> Complex in Urban and Rural Environments. <i>Microorganisms</i> , 2020, 8, 1908.	1.6	24
36	FDA Approved Drugs Efavirenz, Tipranavir, and Dasabuvir Inhibit Replication of Multiple Flaviviruses In Vitro. <i>Proceedings (mdpi)</i> , 2020, 50, 6.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Tick-Borne Encephalitis Virus Vaccines Contain Non-Structural Protein 1 Antigen and May Elicit NS1-Specific Antibody Responses in Vaccinated Individuals. <i>Vaccines</i> , 2020, 8, 81.	2.1	27
38	Three-dimensional reconstruction of the feeding apparatus of the tick <i>Ixodes ricinus</i> (Acari: Ixodidae): a new insight into the mechanism of blood-feeding. <i>Scientific Reports</i> , 2020, 10, 165.	1.6	18
39	FDA-Approved Drugs Efavirenz, Tipranavir, and Dasabuvir Inhibit Replication of Multiple Flaviviruses in Vero Cells. <i>Microorganisms</i> , 2020, 8, 599.	1.6	17
40	An RNA-dependent RNA polymerase inhibitor for tick-borne encephalitis virus. <i>Virology</i> , 2020, 546, 13-19.	1.1	8
41	Tick-borne encephalitis in domestic animals. <i>Acta Virologica</i> , 2020, 64, 226-232.	0.3	30
42	Combination therapy of rabies-infected mice with inhibitors of pro-inflammatory host response, antiviral compounds and human rabies immunoglobulin. <i>Vaccine</i> , 2019, 37, 4724-4735.	1.7	20
43	Molecular Epidemiology of Hantaviruses in the Czech Republic. <i>Emerging Infectious Diseases</i> , 2019, 25, 2133-2135.	2.0	5
44	Phylogenetic Analysis of Lednice Orthobunyavirus. <i>Microorganisms</i> , 2019, 7, 447.	1.6	5
45	Changes in cytokine and chemokine profiles in mouse serum and brain, and in human neural cells, upon tick-borne encephalitis virus infection. <i>Journal of Neuroinflammation</i> , 2019, 16, 205.	3.1	34
46	Viral RNA-Dependent RNA Polymerase Inhibitor 7-Deaza-2- <i>C</i> -Methyladenosine Prevents Death in a Mouse Model of West Nile Virus Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	19
47	Tick-borne encephalitis in Europe and Russia: Review of pathogenesis, clinical features, therapy, and vaccines. <i>Antiviral Research</i> , 2019, 164, 23-51.	1.9	248
48	An E460D Substitution in the NS5 Protein of Tick-Borne Encephalitis Virus Confers Resistance to the Inhibitor Galidesivir (BCX4430) and Also Attenuates the Virus for Mice. <i>Journal of Virology</i> , 2019, 93, .	1.5	30
49	Antiviral Activity of Uridine Derivatives of 2-Deoxy Sugars against Tick-Borne Encephalitis Virus. <i>Molecules</i> , 2019, 24, 1129.	1.7	7
50	Model of Risk of Exposure to Lyme Borreliosis and Tick-Borne Encephalitis Virus-Infected Ticks in the Border Area of the Czech Republic (South Bohemia) and Germany (Lower Bavaria and Upper Palatinate). <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1173.	1.2	16
51	Multiple Lineages of Usutu Virus (Flaviviridae, Flavivirus) in Blackbirds ( <i>Turdus merula</i> ) and Mosquitoes ( <i>Culex pipiens</i> , <i>Cx. modestus</i> ) in the Czech Republic (2016–2019). <i>Microorganisms</i> , 2019, 7, 568.	1.6	27
52	Mannitol treatment is not effective in therapy of rabies virus infection in mice. <i>Vaccine</i> , 2019, 37, 4710-4714.	1.7	7
53	No indication of arthropod-vector-borne viruses in mosquitoes (Diptera: Culicidae) collected on Greenland and Svalbard. <i>Polar Biology</i> , 2018, 41, 1581-1586.	0.5	29
54	Structure of tick-borne encephalitis virus and its neutralization by a monoclonal antibody. <i>Nature Communications</i> , 2018, 9, 436.	5.8	119

#	ARTICLE	IF	CITATIONS
55	Characterisation of Zika virus infection in primary human astrocytes. BMC Neuroscience, 2018, 19, 5.	0.8	55
56	Kyasanur Forest disease virus infection activates human vascular endothelial cells and monocyte-derived dendritic cells. Emerging Microbes and Infections, 2018, 7, 1-12.	3.0	10
57	Development and testing of a new tick-borne encephalitis virus vaccine candidate for veterinary use. Vaccine, 2018, 36, 7257-7261.	1.7	22
58	Nucleoside analogs as a rich source of antiviral agents active against arthropod-borne flaviviruses. Antiviral Chemistry and Chemotherapy, 2018, 26, 204020661876129.	0.3	113
59	A novel locus on mouse chromosome 7 that influences survival after infection with tick-borne encephalitis virus. BMC Neuroscience, 2018, 19, 39.	0.8	14
60	The structural model of Zika virus RNA-dependent RNA polymerase in complex with RNA for rational design of novel nucleotide inhibitors. Scientific Reports, 2018, 8, 11132.	1.6	26
61	Arbidol (Umifenovir): A Broad-Spectrum Antiviral Drug That Inhibits Medically Important Arthropod-Borne Flaviviruses. Viruses, 2018, 10, 184.	1.5	113
62	Comparative analysis of complete genome sequences of European subtype tick-borne encephalitis virus strains isolated from Ixodes persulcatus ticks, long-tailed ground squirrel ( Spermophilus undulatus) Tj ETQq0 0 0 rgBT /Overlook 10 Tf 5		
63	Tick-borne encephalitis virus infects human brain microvascular endothelial cells without compromising blood-brain barrier integrity. Virology, 2017, 507, 110-122.	1.1	52
64	Adenosine triphosphate analogs can efficiently inhibit the Zika virus RNA-dependent RNA polymerase. Antiviral Research, 2017, 137, 131-133.	1.9	62
65	A comparative analysis on the physicochemical properties of tick-borne encephalitis virus envelope protein residues that affect its antigenic properties. Virus Research, 2017, 238, 124-132.	1.1	4
66	Europe-Wide Meta-Analysis of Borrelia burgdorferi Sensu Lato Prevalence in Questing Ixodes ricinus Ticks. Applied and Environmental Microbiology, 2017, 83, .	1.4	138
67	Flaviviridae viruses use a common molecular mechanism to escape nucleoside analogue inhibitors. Biochemical and Biophysical Research Communications, 2017, 492, 652-658.	1.0	7
68	Antiviral activity of the adenosine analogue BCX4430 against West Nile virus and tick-borne flaviviruses. Antiviral Research, 2017, 142, 63-67.	1.9	73
69	Novel hantavirus identified in European bat species Nyctalus noctula. Infection, Genetics and Evolution, 2017, 48, 127-130.	1.0	25
70	Escape of Tick-Borne Flavivirus from 2-â€²-C-Methylated Nucleoside Antivirals Is Mediated by a Single Conservative Mutation in NS5 That Has a Dramatic Effect on Viral Fitness. Journal of Virology, 2017, 91, .	1.5	33
71	Tick-borne encephalitis virus neutralization by high dose intravenous immunoglobulin. Ticks and Tick-borne Diseases, 2017, 8, 253-258.	1.1	25
72	Broad-range survey of vector-borne pathogens and tick host identification of Ixodes ricinus from Southern Czech Republic. FEMS Microbiology Ecology, 2017, 93, .	1.3	27

#	ARTICLE	IF	CITATIONS
73	Tick-Borne Encephalitis in Sheep, Romania. <i>Emerging Infectious Diseases</i> , 2017, 23, 2065-2067.	2.0	22
74	An Approach for Zika Virus Inhibition Using Homology Structure of the Envelope Protein. <i>Molecular Biotechnology</i> , 2016, 58, 801-806.	1.3	30
75	Structure-activity relationships of nucleoside analogues for inhibition of tick-borne encephalitis virus. <i>Antiviral Research</i> , 2016, 133, 119-129.	1.9	66
76	Tick-borne encephalitis: What travelers should know when visiting an endemic country. <i>Human Vaccines and Immunotherapeutics</i> , 2016, 12, 2694-2699.	1.4	29
77	Substrate prediction of <i>Ixodes ricinus</i> salivary lipocalins differentially expressed during <i>Borrelia afzelii</i> infection. <i>Scientific Reports</i> , 2016, 6, 32372.	1.6	29
78	Nucleoside Inhibitors of Zika Virus. <i>Journal of Infectious Diseases</i> , 2016, 214, 707-711.	1.9	142
79	A Review of Methods for Detecting Tick-Borne Encephalitis Virus Infection in Tick, Animal, and Human Specimens. <i>Vector-Borne and Zoonotic Diseases</i> , 2016, 16, 4-12.	0.6	25
80	Fatal tick-borne encephalitis in an immunosuppressed 12-year-old patient. <i>Journal of Clinical Virology</i> , 2016, 74, 73-74.	1.6	10
81	Antiviral activities of 2,6-diaminopurine-based acyclic nucleoside phosphonates against herpesviruses: In vitro study results with pseudorabies virus (PrV, SuHV-1). <i>Veterinary Microbiology</i> , 2016, 184, 84-93.	0.8	13
82	Expression of a second open reading frame present in the genome of tick-borne encephalitis virus strain Neudoerfl is not detectable in infected cells. <i>Virus Genes</i> , 2016, 52, 309-316.	0.7	7
83	An all-atom, active site exploration of antiviral drugs that target Flaviviridae polymerases. <i>Journal of General Virology</i> , 2016, 97, 2552-2565.	1.3	5
84	Electron Tomography Analysis of Tick-Borne Encephalitis Virus Infection in Human Neurons. <i>Scientific Reports</i> , 2015, 5, 10745.	1.6	84
85	<i>Ixodes scapularis</i> and <i>Ixodes ricinus</i> tick cell lines respond to infection with tick-borne encephalitis virus: transcriptomic and proteomic analysis. <i>Parasites and Vectors</i> , 2015, 8, 599.	1.0	71
86	Analysis of serum levels of cytokines, chemokines, growth factors, and monoamine neurotransmitters in patients with tick-borne encephalitis: Identification of novel inflammatory markers with implications for pathogenesis. <i>Journal of Medical Virology</i> , 2015, 87, 885-892.	2.5	45
87	Nucleoside Inhibitors of Tick-Borne Encephalitis Virus. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5483-5493.	1.4	80
88	Tick salivary cystatin sialostatin L2 suppresses $\alpha$ IFN responses in mouse dendritic cells. <i>Parasite Immunology</i> , 2015, 37, 70-78.	0.7	61
89	Detection of Diverse Novel Bat Astrovirus Sequences in the Czech Republic. <i>Vector-Borne and Zoonotic Diseases</i> , 2015, 15, 518-521.	0.6	28
90	A deep phylogeny of viral and cellular right-hand polymerases. <i>Infection, Genetics and Evolution</i> , 2015, 36, 275-286.	1.0	10

#	ARTICLE	IF	CITATIONS
91	Full genome sequences and molecular characterization of tick-borne encephalitis virus strains isolated from human patients. <i>Ticks and Tick-borne Diseases</i> , 2015, 6, 38-46.	1.1	30
92	Seroprevalence of <i>Borrelia burgdorferi</i> sensu lato and tick-borne encephalitis virus in zoo animal species in the Czech Republic. <i>Ticks and Tick-borne Diseases</i> , 2014, 5, 523-527.	1.1	19
93	Infection and injury of human astrocytes by tick-borne encephalitis virus. <i>Journal of General Virology</i> , 2014, 95, 2411-2426.	1.3	91
94	Full-length genome analysis of ÄEalovo strains of Batai orthobunyavirus (Bunyamwera serogroup): Implications to taxonomy. <i>Infection, Genetics and Evolution</i> , 2014, 27, 96-104.	1.0	5
95	Serum matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 levels in patients with tick-borne encephalitis. <i>Journal of Infection</i> , 2014, 68, 165-169.	1.7	22
96	Evolution of Tertiary Structure of Viral RNA Dependent Polymerases. <i>PLoS ONE</i> , 2014, 9, e96070.	1.1	57
97	Mice with different susceptibility to tick-borne encephalitis virus infection show selective neutralizing antibody response and inflammatory reaction in the central nervous system. <i>Journal of Neuroinflammation</i> , 2013, 10, 77.	3.1	74
98	May early intervention with high dose intravenous immunoglobulin pose a potentially successful treatment for severe cases of tick-borne encephalitis?. <i>BMC Infectious Diseases</i> , 2013, 13, 306.	1.3	25
99	Molecular characterization of the African orthobunyavirus Ilesha virus. <i>Infection, Genetics and Evolution</i> , 2013, 20, 124-130.	1.0	9
100	The variability of the large genomic segment of ÄahyÄ^a orthobunyavirus and an all-atom exploration of its anti-viral drug resistance. <i>Infection, Genetics and Evolution</i> , 2013, 20, 304-311.	1.0	13
101	First documented case of imported tick-borne encephalitis in <sc>A</sc>ustralia. <i>Internal Medicine Journal</i> , 2013, 43, 93-96.	0.5	16
102	Molecular phylogeography of tick-borne encephalitis virus in central Europe. <i>Journal of General Virology</i> , 2013, 94, 2129-2139.	1.3	35
103	Detection of mosquito-only flaviviruses in Europe. <i>Journal of General Virology</i> , 2012, 93, 1215-1225.	1.3	70
104	Rodents as Sentinels for the Prevalence of Tick-Borne Encephalitis Virus. <i>Vector-Borne and Zoonotic Diseases</i> , 2011, 11, 641-647.	0.6	106
105	Relation of genetic phylogeny and geographical distance of tick-borne encephalitis virus in central Europe. <i>Journal of General Virology</i> , 2011, 92, 1906-1916.	1.3	29
106	Functional characterization of two defensin isoforms of the hard tick <i>Ixodes ricinus</i> . <i>Parasites and Vectors</i> , 2011, 4, 63.	1.0	25
107	Phylogenetic and virulence analysis of tick-borne encephalitis virus field isolates from Switzerland. <i>Journal of Medical Virology</i> , 2011, 83, 853-863.	2.5	19
108	Japanese encephalitis virus: from genome to infectome. <i>Microbes and Infection</i> , 2011, 13, 312-321.	1.0	135

#	ARTICLE	IF	CITATIONS
109	Breakdown of the Blood-Brain Barrier during Tick-Borne Encephalitis in Mice Is Not Dependent on CD8+ T-Cells. PLoS ONE, 2011, 6, e20472.	1.1	109
110	Nucleotide variability of ÄahyÄ^a virus (Bunyaviridae, Orthobunyavirus) small (S) and medium (M) genomic segments in field strains differing in biological properties. Virus Research, 2010, 149, 119-123.	1.1	11
111	Tick-borne encephalitis: Pathogenesis and clinical implications. Travel Medicine and Infectious Disease, 2010, 8, 223-232.	1.5	136
112	Omsk haemorrhagic fever. Lancet, The, 2010, 376, 2104-2113.	6.3	96
113	Tick-Borne Encephalitis Virus Infection of Cultured Mouse Macrophages. Intervirology, 2009, 52, 283-290.	1.2	12
114	CD8+ T-cells mediate immunopathology in tick-borne encephalitis. Virology, 2009, 384, 1-6.	1.1	126
115	Cell lines from the soft tick Ornithodoros moubata. Experimental and Applied Acarology, 2009, 49, 209-219.	0.7	26
116	Molecular detection of <i>Borrelia bissettii</i> DNA in serum samples from patients in the Czech Republic with suspected borreliosis. FEMS Microbiology Letters, 2009, 292, 274-281.	0.7	68
117	Morphological changes in human neural cells following tick-borne encephalitis virus infection. Journal of General Virology, 2009, 90, 1649-1658.	1.3	87
118	Detection of <i>Borrelia bissettii</i> in Cardiac Valve Tissue of a Patient with Endocarditis and Aortic Valve Stenosis in the Czech Republic. Journal of Clinical Microbiology, 2008, 46, 3540-3543.	1.8	74
119	Mutations in the NS2B and NS3 genes affect mouse neuroinvasiveness of a Western European field strain of tick-borne encephalitis virus. Virology, 2008, 374, 249-255.	1.1	62
120	Growth of tick-borne encephalitis virus (European subtype) in cell lines from vector and non-vector ticks. Virus Research, 2008, 137, 142-146.	1.1	39
121	High variability in viral load in cerebrospinal fluid from patients with herpes simplex and varicella-zoster infections of the central nervous system. Clinical Microbiology and Infection, 2007, 13, 1217-1219.	2.8	9
122	Rapid subtyping of tick-borne encephalitis virus isolates using multiplex RT-PCR. Journal of Virological Methods, 2007, 144, 133-137.	1.0	28
123	Tick-Borne Encephalitis Virus: A General Overview. , 0, , .		11
124	Chapter 2a: Virology. Tick-borne Encephalitis - the Book, 0, , .	0.0	2