Karin Stiasny

List of Publications by Year
in descending order

116	6,621	71097	69246
papers	citations	41 h-index	77 g-index

122	122	122	7822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of a flavivirus envelope glycoprotein in its low-pH-induced membrane fusion conformation. EMBO Journal, 2004, 23, 728-738.	7.8	526
2	Structural basis of potent Zikaâ€“dengue virus antibody cross-neutralization. Nature, 2016, 536, 48-53.	27.8	465
3	Human recombinant soluble ACE2 in severe COVID-19. Lancet Respiratory Medicine,the, 2020, 8, 1154-1158.	10.7	340
4	Mutational Evidence for an Internal Fusion Peptide in Flavivirus Envelope Protein E. Journal of Virology, 2001, 75, 4268-4275.	3.4	295
5	Structural Changes and Functional Control of the Tick-Borne Encephalitis Virus Glycoprotein E by the Heterodimeric Association with Protein prM. Virology, 1994, 198, 109-117.	2.4	247
6	Distinguishing features of current COVID-19 vaccines: knowns and unknowns of antigen presentation and modes of action. Npj Vaccines, 2021, 6, 104.	6.0	241
7	SARS-CoV-2 vaccination in rituximab-treated patients: B cells promote humoral immune responses in the presence of T-cell-mediated immunity. Annals of the Rheumatic Diseases, 2021, 80, 1345-1350.	0.9	211
8	Cryptic Properties of a Cluster of Dominant Flavivirus Cross-Reactive Antigenic Sites. Journal of Virology, 2006, 80, 9557-9568.	3.4	204
9	The bright and the dark side of human antibody responses to flaviviruses: lessons for vaccine design. EMBO Reports, 2018, 19, 206-224.	4.5	188
10	Mapping of Functional Elements in the Stem-Anchor Region of Tick-Borne Encephalitis Virus Envelope Protein E. Journal of Virology, 1999, 73, 5605-5612.	3.4	178
11	Vaccination and Tick-borne Encephalitis, Central Europe. Emerging Infectious Diseases, 2013, 19, 69-76.	4.3	169
12	Flavivirus membrane fusion. Journal of General Virology, 2006, 87, 2755-2766.	2.9	162
13	The Antigenic Structure of Zika Virus and Its Relation to Other Flaviviruses: Implications for Infection and Immunoprophylaxis. Microbiology and Molecular Biology Reviews, 2017, 81, .	6.6	156
14	Identification of specific histidines as pH sensors in flavivirus membrane fusion. Journal of Cell Biology, 2008, 183, 353-361.	5.2	153
15	Flaviviruses and their antigenic structure. Journal of Clinical Virology, 2012, 55, 289-295.	3.1	124
16	Membrane Interactions of the Tick-Borne Encephalitis Virus Fusion Protein E at Low pH. Journal of Virology, 2002, 76, 3784-3790.	3.4	119
17	Reduced naÃ¯ve <scp>CD</scp> 8 ⁺ <scp>T</scp> â€cell priming efficacy in elderly adults. Aging Cell, 2016, 15, 14-21.	6.7	112
18	Recombinant and virion-derived soluble and particulate immunogens for vaccination against tick-borne encephalitis. Vaccine, 1995, 13, 1636-1642.	3.8	104

#	Article	IF	Citations
19	Molecular mechanisms of flavivirus membrane fusion. Amino Acids, 2011, 41, 1159-1163.	2.7	98
20	Characteristics of antibody responses in tick-borne encephalitis vaccination breakthroughs. Vaccine, 2009, 27, 7021-7026.	3.8	97
21	Involvement of Lipids in Different Steps of the Flavivirus Fusion Mechanism. Journal of Virology, 2003, 77, 7856-7862.	3.4	86
22	Age Affects Quantity but Not Quality of Antibody Responses after Vaccination with an Inactivated Flavivirus Vaccine against Tick-Borne Encephalitis. PLoS ONE, 2012, 7, e34145.	2.5	79
23	Decreased antibody titers and booster responses in tick-borne encephalitis vaccinees aged 50â€“90 years. Vaccine, 2010, 28, 3511-3515.	3.8	77
24	Characterization of a Structural Intermediate of Flavivirus Membrane Fusion. PLoS Pathogens, 2007, 3, e20.	4.7	76
25	Variation of the Specificity of the Human Antibody Responses after Tick-Borne Encephalitis Virus Infection and Vaccination. Journal of Virology, 2014, 88, 13845-13857.	3.4	76
26	Age-related differences in humoral and cellular immune responses after primary immunisation: indications for stratified vaccination schedules. Scientific Reports, 2018, 8, 9825.	3.3	72
27	Increase in human West Nile and Usutu virus infections, Austria, 2018. Eurosurveillance, 2018, 23, .	7.0	69
28	Specificities of Human CD4 ⁺ T Cell Responses to an Inactivated Flavivirus Vaccine and Infection: Correlation with Structure and Epitope Prediction. Journal of Virology, 2014, 88, 7828-7842.	3.4	67
29	Flavivirus structural heterogeneity: implications for cell entry. Current Opinion in Virology, 2017, 24, 132-139.	5.4	62
30	Dissection of Antibody Specificities Induced by Yellow Fever Vaccination. PLoS Pathogens, 2013, 9, e1003458.	4.7	61
31	Role of Metastability and Acidic pH in Membrane Fusion by Tick-Borne Encephalitis Virus. Journal of Virology, 2001, 75, 7392-7398.	3.4	60
32	Effect of Membrane Curvature-Modifying Lipids on Membrane Fusion by Tick-Borne Encephalitis Virus. Journal of Virology, 2004, 78, 8536-8542.	3.4	57
33	Usutu virus infections among blood donors, Austria, July and August 2017 â€“ Raising awareness for diagnostic challenges. Eurosurveillance, 2017, 22, .	7.0	57
34	A novel mechanism of antibody-mediated enhancement of flavivirus infection. PLoS Pathogens, 2017, 13, e1006643.	4.7	56
35	Characterization of a Membrane-Associated Trimeric Low-pH-Induced Form of the Class II Viral Fusion Protein E from Tick-Borne Encephalitis Virus and Its Crystallization. Journal of Virology, 2004, 78, 3178-3183.	3.4	55
36	Dynamics of CD4 T Cell and Antibody Responses in COVID-19 Patients With Different Disease Severity. Frontiers in Medicine, 2020, 7, 592629.	2.6	54

#	Article	IF	Citations
37	Tickâ€borne encephalitis virus in cows and unpasteurized cow milk from Norway. Zoonoses and Public Health, 2019, 66, 216-222.	2.2	50
38	Mechanistic insights into the impairment of memory B cells and antibody production in the elderly. Age, 2013, 35, 371-381.	3.0	48
39	Tick-Borne Encephalitis (TBE) and Hepatitis B Nonresponders Feature Different Immunologic Mechanisms in Response to TBE and Influenza Vaccination with Involvement of Regulatory T and B Cells and IL-10. Journal of Immunology, 2013, 191, 2426-2436.	0.8	48
40	Highly active engineered IgG3 antibodies against SARS-CoV-2. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	48
41	Pre-existing yellow fever immunity impairs and modulates the antibody response to tick-borne encephalitis vaccination. Npj Vaccines, 2019, 4, 38.	6.0	47
42	Probing the Flavivirus Membrane Fusion Mechanism by Using Monoclonal Antibodies. Journal of Virology, 2007, 81, 11526-11531.	3.4	45
43	The Unique Transmembrane Hairpin of Flavivirus Fusion Protein E Is Essential for Membrane Fusion. Journal of Virology, 2011, 85, 4377-4385.	3.4	45
44	Membrane Anchors of the Structural Flavivirus Proteins and Their Role in Virus Assembly. Journal of Virology, 2016, 90, 6365-6378.	3.4	45
45	Neutralization of SARSâ€CoVâ€2 requires antibodies against conformational receptorâ€binding domain epitopes. Allergy: European Journal of Allergy and Clinical Immunology, 2022, 77, 230-242.	5.7	45
46	Impact of Quaternary Organization on the Antigenic Structure of the Tick-Borne Encephalitis Virus Envelope Glycoprotein E. Journal of Virology, 2009, 83, 8482-8491.	3.4	43
47	Immunodominance and Functional Activities of Antibody Responses to Inactivated West Nile Virus and Recombinant Subunit Vaccines in Mice. Journal of Virology, 2011, 85, 1994-2003.	3.4	43
48	Additional heterologous versus homologous booster vaccination in immunosuppressed patients without SARS-CoV-2 antibody seroconversion after primary mRNA vaccination: a randomised controlled trial. Annals of the Rheumatic Diseases, 2022, 81, 687-694.	0.9	43
49	Increased in vitro neutralizing activity of SARS-CoV-2 IgA1 dimers compared to monomers and IgG. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	37
50	Human CD4+ T Helper Cell Responses after Tick-Borne Encephalitis Vaccination and Infection. PLoS ONE, 2015, 10, e0140545.	2.5	36
51	Active Human Complement Reduces the Zika Virus Load via Formation of the Membrane-Attack Complex. Frontiers in Immunology, 2018, 9, 2177.	4.8	33
52	Profiles of current COVID-19 vaccines. Wiener Klinische Wochenschrift, 2021, 133, 271-283.	1.9	32
53	Continued expansion of tick-borne pathogens: Tick-borne encephalitis virus complex and Anaplasma phagocytophilum in Denmark. Ticks and Tick-borne Diseases, 2019, 10, 115-123.	2.7	31
54	Assessment of S1-, S2-, and NCP-Specific IgM, IgA, and IgG Antibody Kinetics in Acute SARS-CoV-2 Infection by a Microarray and Twelve Other Immunoassays. Journal of Clinical Microbiology, 2021, 59, .	3.9	30

#	Article	IF	Citations
55	Lessons from low seroprevalence of SARSâ€CoVâ€2 antibodies in schoolchildren: A crossâ€sectional study. Pediatric Allergy and Immunology, 2021, 32, 762-770.	2.6	29
56	Impact of flavivirus vaccine-induced immunity on primary Zika virus antibody response in humans. PLoS Neglected Tropical Diseases, 2020, 14, e0008034.	3.0	27
57	Structural Influence on the Dominance of Virus-Specific CD4 T Cell Epitopes in Zika Virus Infection. Frontiers in Immunology, 2018, 9, 1196.	4.8	25
58	Immunization with Immune Complexes Modulates the Fine Specificity of Antibody Responses to a Flavivirus Antigen. Journal of Virology, 2015, 89, 7970-7978.	3.4	23
59	Obesity and Sex Affect the Immune Responses to Tick-Borne Encephalitis Booster Vaccination. Frontiers in Immunology, 2020, 11, 860.	4.8	23
60	Integrated analysis of human-animal-vector surveillance: West Nile virus infections in Austria, 2015â€“2016. Emerging Microbes and Infections, 2018, 7, 1-15.	6.5	22
61	The Membrane-Proximal â€œStemâ€•Region Increases the Stability of the Flavivirus E Protein Postfusion Trimer and Modulates Its Structure. Journal of Virology, 2013, 87, 9933-9938.	3.4	20
62	Mutational Analysis of the Zippering Reaction during Flavivirus Membrane Fusion. Journal of Virology, 2011, 85, 8495-8501.	3.4	19
63	Cervids as sentinelâ€species for tickâ€borne encephalitis virus in Norway â€•A serological study. Zoonoses and Public Health, 2020, 67, 342-351.	2.2	19
64	Kinetics of SARS-CoV-2 specific antibodies (IgM, IgA, IgG) in non-hospitalized patients four months following infection. Journal of Infection, 2021, 82, 282-327.	3.3	19
65	Aluminum Hydroxide Influences Not Only the Extent but Also the Fine Specificity and Functional Activity of Antibody Responses to Tick-Borne Encephalitis Virus in Mice. Journal of Virology, 2013, 87, 12187-12195.	3.4	18
66	Protein structure shapes immunodominance in the CD4 T cell response to yellow fever vaccination. Scientific Reports, 2017, 7, 8907.	3.3	18
67	Differences in the Postfusion Conformations of Full-Length and Truncated Class II Fusion Protein E of Tick-Borne Encephalitis Virus. Journal of Virology, 2005, 79, 6511-6515.	3.4	17
68	Experimental infection of lambs with tick-borne encephalitis virus and co-infection with Anaplasma phagocytophilum. PLoS ONE, 2019, 14, e0226836.	2.5	17
69	SARS-CoV-2 positive virus culture 7 weeks after onset of COVID-19 in an immunocompromised patient suffering from X chromosome-linked agammaglobulinemia. Journal of Infection, 2021, 82, 414-451.	3.3	17
70	Primary immune responses are negatively impacted by persistent herpesvirus infections in older people: results from an observational study on healthy subjects and a vaccination trial on subjects aged more than 70 years old. EBioMedicine, 2022, 76, 103852.	6.1	17
71	Evolution and activation mechanism of the flavivirus class II membrane-fusion machinery. Nature Communications, 2022, 13, .	12.8	17
72	Long-Lived Immunity in SARS-CoV-2-Recovered Children and Its Neutralizing Capacity Against Omicron. Frontiers in Immunology, 2022, 13, .	4.8	15

#	Article	IF	Citations
73	Detection of tick-borne encephalitis virus antibodies in sera of sheep and goats in Mecklenburg-Western Pomerania (north-eastern Germany). Ticks and Tick-borne Diseases, 2019, 10, 901-904.	2.7	14
74	CD4 T cell responses to flaviviruses. Journal of Clinical Virology, 2018, 108, 126-131.	3.1	13
75	Low SARS-CoV-2 seroprevalence in the Austrian capital after an early governmental lockdown. Scientific Reports, 2021, 11, 10158.	3.3	13
76	Allergic patients with and without allergen-specific immunotherapy mount protective immune responses to tick-borne encephalitis vaccination in absence of enhanced side effects or propagation of their Th2 bias. Vaccine, 2018, 36, 2816-2824.	3.8	12
77	Low prevalence of tick-borne encephalitis virus antibodies in Norwegian blood donors. Infectious Diseases, 2021, 53, 44-51.	2.8	12
78	Diagnosis of COVID-19 using multiple antibody assays in two cases with negative PCR results from nasopharyngeal swabs. Infection, 2021, 49, 171-175.	4.7	11
79	Tick-Borne Encephalitis in Vaccinated Patients: A Retrospective Case-Control Study and Analysis of Vaccination Field Effectiveness in Austria From 2000 to 2018. Journal of Infectious Diseases, 2023, 227, 512-521.	4.0	10
80	Elevated CXCL10 Serum Levels in Measles Virus Primary Infection and Reinfection Correlate With the Serological Stage and Hospitalization Status. Journal of Infectious Diseases, 2020, 222, 2030-2034.	4.0	9
81	High-throughput sequencing of two European strains of tick-borne encephalitis virus (TBEV), Hochosterwitz and 1993/783. Ticks and Tick-borne Diseases, 2021, 12, 101557.	2.7	9
82	No molecular or serological evidence of Zikavirus infection among healthy blood donors living in or travelling to regions where Aedes albopictus circulates. PLoS ONE, 2017, 12, e0178175.	2.5	9
83	Humoral immune response to tick-borne encephalitis vaccination in allogeneic blood and marrow graft recipients. Npj Vaccines, 2020, 5, 67.	6.0	8
84	Development and characterization of specific <scp>antiâ€Usutu</scp> virus chickenâ€derived single chain variable fragment antibodies. Protein Science, 2020, 29, 2175-2188.	7.6	8
85	Extensive flavivirus E trimer breathing accompanies stem zippering of the postâ€fusion hairpin. EMBO Reports, 2020, 21, e50069.	4.5	8
86	CD4 T Cell Determinants in West Nile Virus Disease and Asymptomatic Infection. Frontiers in Immunology, 2020, 11, 16.	4.8	7
87	Dynamics and Extent of Non-Structural Protein 1-Antibody Responses in Tick-Borne Encephalitis Vaccination Breakthroughs and Unvaccinated Patients. Viruses, 2021, 13, 1007.	3.3	7
88	Long-term presence of tick-borne encephalitis virus in experimentally infected bank voles (Myodes) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.7	7
89	Enteric Ganglioneuritis, a Common Feature in a Subcutaneous TBEV Murine Infection Model. Microorganisms, 2021, 9, 875.	3.6	6
90	The regional decline and rise of tick-borne encephalitis incidence do not correlate with Lyme borreliosis, Austria, 2005 to 2018. Eurosurveillance, 2021, 26, .	7.0	6

#	Article	IF	Citations
91	Entry Functions and Antigenic Structure of Flavivirus Envelope Proteins. Novartis Foundation Symposium, 2008, , 57-73.	1.1	5
92	Different Cross-Reactivities of IgM Responses in Dengue, Zika and Tick-Borne Encephalitis Virus Infections. Viruses, 2021, 13, 596.	3.3	5
93	Subcutaneous injection of mRNA vaccines against severe acute respiratory syndrome coronavirus 2: an option for severe bleeding disorders or anticoagulated patients?. Blood Coagulation and Fibrinolysis, 2021, 32, 423-424.	1.0	5
94	Tick-Borne Encephalitis Specific Lymphocyte Response after Allogeneic Hematopoietic Stem Cell Transplantation Predicts Humoral Immunity after Vaccination. Vaccines, 2021, 9, 908.	4.4	5
95	Characterization of the antibody response to SARSâ€CoVâ€2 in a mildly affected pediatric population. Pediatric Allergy and Immunology, 2022, 33, e13737.	2.6	5
96	Impact of structural dynamics on biological functions of flaviviruses. FEBS Journal, 2023, 290, 1973-1985.	4.7	5
97	Profile of SARS-CoV-2. Wiener Klinische Wochenschrift, 2020, 132, 635-644.	1.9	4
98	Performance of Four IgM Antibody Assays in the Diagnosis of Measles Virus Primary Infection and Cases with a Serological Profile Indicating Reinfection. Journal of Clinical Microbiology, 2021, 59, .	3.9	4
99	Symptoms and risk factors for hospitalization of COVID-19 presented in primary care. Wiener Klinische Wochenschrift, 2022, 134, 335-343.	1.9	4
100	The First Case of Usutu Virus Neuroinvasive Disease in Austria, 2021. Open Forum Infectious Diseases, 2022, 9, .	0.9	4
101	Heterogeneous SARS-CoV-2-Neutralizing Activities After Infection and Vaccination. Frontiers in Immunology, 0, 13, .	4.8	4
102	Zika virus-induced itching rash in a returning traveller from Brazil. International Journal of Infectious Diseases, 2017, 54, 13-14.	3.3	3
103	Incorporation of CD55 into the Zika Viral Envelope Contributes to Its Stability against Human Complement. Viruses, 2021, 13, 510.	3.3	3
104	Rapid, early and accurate SARS-CoV-2 detection using RT-qPCR in primary care: a prospective cohort study (REAP-1). BMJ Open, 2021, 11, e045225.	1.9	3
105	Entry functions and antigenic structure of flavivirus envelope proteins. Novartis Foundation Symposium, 2006, 277, 57-65; discussion 65-73, 251-3.	1.1	3
106	Proteolytic Activation of Flavivirus Envelope Proteins. , 2018, , 109-132.		2
107	Role of ducks in the transmission cycle of tickâ€borne encephalitis virus?. Transboundary and Emerging Diseases, 2021, 68, 499-508.	3.0	2
108	Chapter 2b: The molecular and antigenic structure of TBEV. Tick-borne Encephalitis - the Book, 0, , .	0.1	2

#	Article	IF	Citations
109	Effectiveness and Safety of an Intravenous Immune Globulin (IVIG) Preparation in Post-exposure Prophylaxis (PEP) Against Measles in Infants. Frontiers in Pediatrics, 2021, 9, 762793.	1.9	2
110	When it is better to stay together. Nature Immunology, 2019, 20, 1266-1268.	14.5	1
111	Screening and Confirmatory Testing for SARS-CoV-2 Antibodies: Comparison of Health and Non-Health Workers in a Nationwide Healthcare Organization in Central Europe. Journal of Clinical Medicine, 2021, 10, 1909.	2.4	1
112	Chapter 2b: The molecular antigenic structure of the TBEV. Tick-borne Encephalitis - the Book, 2021, , .	0.1	1
113	An Absolutely Conserved Tryptophan in the Stem of the Envelope Protein E of Flaviviruses Is Essential for the Formation of Stable Particles. Viruses, 2021, 13, 1727.	3.3	1
114	A Longitudinal Seroprevalence Study Evaluating Infection Control and Prevention Strategies at a Large Tertiary Care Center with Low COVID-19 Incidence. International Journal of Environmental Research and Public Health, 2021, 18, 4201.	2.6	0
115	Chapter 2b: The molecular antigenic structure of the TBEV. Tick-borne Encephalitis - the Book, 2022, , .	0.1	0
116	TBE in Austria. Tick-borne Encephalitis - the Book, 2022, , .	0.1	0