Veronika I Zarnitsyna

List of Publications by Year
in descending order

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43 papers	3,036 citations	236833 25 h-index	265120 42 g-index
48 all docs	48 docs citations	48 times ranked	4746 citing authors

#	Article	IF	Citations
1	Durability of immune responses to the BNT162b2 mRNA vaccine. Med, 2022, 3, 25-27.	2.2	33
2	Pre-existing humoral immunity to human common cold coronaviruses negatively impacts the protective SARS-CoV-2 antibody response. Cell Host and Microbe, 2022, 30, 83-96.e4.	5.1	64
3	Pre-existing SARS-CoV-2 immunity influences potency, breadth, and durability of the humoral response to SARS-CoV-2 vaccination. Cell Reports Medicine, 2022, 3, 100603.	3.3	27
4	Humoral Responses Against SARS-CoV-2 and Variants of Concern After mRNA Vaccines in Patients With Non-Hodgkin Lymphoma and Chronic Lymphocytic Leukemia. Journal of Clinical Oncology, 2022, 40, 3020-3031.	0.8	26
5	Persistence of Virus-Specific Antibody after Depletion of Memory B Cells. Journal of Virology, 2022, 96, e0002622.	1.5	4
6	Antibody Response to COVID-19 mRNA Vaccine in Patients With Lung Cancer After Primary Immunization and Booster: Reactivity to the SARS-CoV-2 WT Virus and Omicron Variant. Journal of Clinical Oncology, 2022, 40, 3808-3816.	0.8	19
7	Antibody Persistence through 6 Months after the Second Dose of mRNA-1273 Vaccine for Covid-19. New England Journal of Medicine, 2021, 384, 2259-2261.	13.9	603
8	Vaccination reshapes the virus-specific T cell repertoire in unexposed adults. Immunity, 2021, 54, 1245-1256.e5.	6.6	15
9	Longitudinal analysis shows durable and broad immune memory after SARS-CoV-2 infection with persisting antibody responses and memory B and TÂcells. Cell Reports Medicine, 2021, 2, 100354.	3.3	316
10	The kinetics of E-selectin- and P-selectin-induced intermediate activation of integrin Î±LÎ²2 on neutrophils. Journal of Cell Science, 2021, 134, .	1.2	6
11	Advancing therapies for viral infections using mechanistic computational models of the dynamic interplay between the virus and host immune response. Current Opinion in Virology, 2021, 50, 103-109.	2.6	8
12	Dynamics and turnover of memory CD8 T cell responses following yellow fever vaccination. PLoS Computational Biology, 2021, 17, e1009468.	1.5	9
13	Influenza Immunization in the Context of Preexisting Immunity. Cold Spring Harbor Perspectives in Medicine, 2020, 11, a040964.	2.9	15
14	Adjuvanted H5N1 influenza vaccine enhances both cross-reactive memory B cell and strain-specific naive B cell responses in humans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17957-17964.	3.3	57
15	Why Are CD8 T Cell Epitopes of Human Influenza A Virus Conserved?. Journal of Virology, 2019, 93, .	1.5	22
16	Exploring the impact of inoculum dose on host immunity and morbidity to inform model-based vaccine design. PLoS Computational Biology, 2018, 14, e1006505.	1.5	28
17	Intermediate levels of vaccination coverage may minimize seasonal influenza outbreaks. PLoS ONE, 2018, 13, e0199674.	1.1	8
18	Mathematical Model Reveals the Role of Memory CD8 T Cell Populations in Recall Responses to Influenza. Frontiers in Immunology, 2016, 7, 165.	2.2	33

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19	Multi-epitope Models Explain How Pre-existing Antibodies Affect the Generation of Broadly Protective Responses to Influenza. PLoS Pathogens, 2016, 12, e1005692.	2.1	79
20	Masking of antigenic epitopes by antibodies shapes the humoral immune response to influenza. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140248.	1.8	61
21	Regulatory and T Effector Cells Have Overlapping Low to High Ranges in TCR Affinities for Self during Demyelinating Disease. Journal of Immunology, 2015, 195, 4162-4170.	0.4	15
22	How sticky should a virus be? The impact of virus binding and release on transmission fitness using influenza as an example. Journal of the Royal Society Interface, 2014, 11, 20131083.	1.5	26
23	Ligand-engaged TCR is triggered by Lck not associated with CD8 coreceptor. Nature Communications, 2014, 5, 5624.	5.8	62
24	Accumulation of Serial Forces on TCR and CD8 Frequently Applied by Agonist Antigenic Peptides Embedded in MHC Molecules Triggers Calcium in T Cells. Journal of Immunology, 2014, 193, 68-76.	0.4	60
25	Insights from in situ analysis of TCRâ€“<scp>pMHC</scp> recognition: response of an interaction network. Immunological Reviews, 2013, 251, 49-64.	2.8	66
26	Estimating the Diversity, Completeness, and Cross-Reactivity of the T Cell Repertoire. Frontiers in Immunology, 2013, 4, 485.	2.2	150
27	Hidden Markov Models With Applications in Cell Adhesion Experiments. Journal of the American Statistical Association, 2013, 108, 1469-1479.	1.8	8
28	P-Selectin Glycoprotein Ligand-1 Forms Dimeric Interactions with E-Selectin but Monomeric Interactions with L-Selectin on Cell Surfaces. PLoS ONE, 2013, 8, e57202.	1.1	20
29	T cell triggering: insights from 2D kinetics analysis of molecular interactions. Physical Biology, 2012, 9, 045005.	0.8	38
30	Insights into T Cell Recognition of Antigen: Significance of Two-Dimensional Kinetic Parameters. Frontiers in Immunology, 2012, 3, 86.	2.2	31
31	Adhesion Frequency Assay for In Situ Kinetics Analysis of Cross-Junctional Molecular Interactions at the Cell-Cell Interface. Journal of Visualized Experiments, 2011, , e3519.	0.2	11
32	Regulation of Catch Bonds by Rate of Force Application. Journal of Biological Chemistry, 2011, 286, 32749-32761.	1.6	46
33	The kinetics of two-dimensional TCR and pMHC interactions determine T-cell responsiveness. Nature, 2010, 464, 932-936.	13.7	451
34	Single-Molecule Recognition: Extracting Information from Individual Binding Events and Their Correlation. , 2009, , 591-610.		0
35	Measuring Receptorâ€“Ligand Binding Kinetics on Cell Surfaces: From Adhesion Frequency to Thermal Fluctuation Methods. Cellular and Molecular Bioengineering, 2008, 1, 276-288.	1.0	79
36	Mechanisms for Flow-Enhanced Cell Adhesion. Annals of Biomedical Engineering, 2008, 36, 604-621.	1.3	99

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37	Measuring Diffusion and Binding Kinetics by Contact Area FRAP. Biophysical Journal, 2008, 95, 920-930.	0.2	76
38	A Coupled Diffusion-Kinetics Model for Analysis of Contact-Area FRAP Experiment. Biophysical Journal, 2008, 95, 910-919.	0.2	32
39	Binary Time Series Modeling With Application to Adhesion Frequency Experiments. Journal of the American Statistical Association, 2008, 103, 1248-1259.	1.8	11
40	Memory in receptor-ligand-mediated cell adhesion. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18037-18042.	3.3	49
41	Transport Governs Flow-Enhanced Cell Tethering through L-Selectin at Threshold Shear. Biophysical Journal, 2007, 92, 330-342.	0.2	68
42	Flow-enhanced adhesion regulated by a selectin interdomain hinge. Journal of Cell Biology, 2006, 174, 1107-1117.	2.3	136
43	A new class of stopping self-sustained waves: a factor determining the spatial dynamics of blood coagulation. Physics-Uspekhi, 2002, 45, 619-636.	0.8	34