

Veronika I Zarnitsyna

List of Publications by Year in descending order

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Version: 2024-02-01

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	Antibody Persistence through 6 Months after the Second Dose of mRNA-1273 Vaccine for Covid-19. <i>New England Journal of Medicine</i> , 2021, 384, 2259-2261.	13.9	603
2	The kinetics of two-dimensional TCR and pMHC interactions determine T-cell responsiveness. <i>Nature</i> , 2010, 464, 932-936.	13.7	451
3	Longitudinal analysis shows durable and broad immune memory after SARS-CoV-2 infection with persisting antibody responses and memory B and T cells. <i>Cell Reports Medicine</i> , 2021, 2, 100354.	3.3	316
4	Estimating the Diversity, Completeness, and Cross-Reactivity of the T Cell Repertoire. <i>Frontiers in Immunology</i> , 2013, 4, 485.	2.2	150
5	Flow-enhanced adhesion regulated by a selectin interdomain hinge. <i>Journal of Cell Biology</i> , 2006, 174, 1107-1117.	2.3	136
6	Mechanisms for Flow-Enhanced Cell Adhesion. <i>Annals of Biomedical Engineering</i> , 2008, 36, 604-621.	1.3	99
7	Measuring Receptor-Ligand Binding Kinetics on Cell Surfaces: From Adhesion Frequency to Thermal Fluctuation Methods. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 276-288.	1.0	79
8	Multi-epitope Models Explain How Pre-existing Antibodies Affect the Generation of Broadly Protective Responses to Influenza. <i>PLoS Pathogens</i> , 2016, 12, e1005692.	2.1	79
9	Measuring Diffusion and Binding Kinetics by Contact Area FRAP. <i>Biophysical Journal</i> , 2008, 95, 920-930.	0.2	76
10	Transport Governs Flow-Enhanced Cell Tethering through L-Selectin at Threshold Shear. <i>Biophysical Journal</i> , 2007, 92, 330-342.	0.2	68
11	Insights from <i>in situ</i> analysis of TCR-pMHC recognition: response of an interaction network. <i>Immunological Reviews</i> , 2013, 251, 49-64.	2.8	66
12	Pre-existing humoral immunity to human common cold coronaviruses negatively impacts the protective SARS-CoV-2 antibody response. <i>Cell Host and Microbe</i> , 2022, 30, 83-96.e4.	5.1	64
13	Ligand-engaged TCR is triggered by Lck not associated with CD8 coreceptor. <i>Nature Communications</i> , 2014, 5, 5624.	5.8	62
14	Masking of antigenic epitopes by antibodies shapes the humoral immune response to influenza. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140248.	1.8	61
15	Accumulation of Serial Forces on TCR and CD8 Frequently Applied by Agonist Antigenic Peptides Embedded in MHC Molecules Triggers Calcium in T Cells. <i>Journal of Immunology</i> , 2014, 193, 68-76.	0.4	60
16	Adjuvanted H5N1 influenza vaccine enhances both cross-reactive memory B cell and strain-specific naive B cell responses in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17957-17964.	3.3	57
17	Memory in receptor-ligand-mediated cell adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18037-18042.	3.3	49
18	Regulation of Catch Bonds by Rate of Force Application. <i>Journal of Biological Chemistry</i> , 2011, 286, 32749-32761.	1.6	46

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19	T cell triggering: insights from 2D kinetics analysis of molecular interactions. <i>Physical Biology</i> , 2012, 9, 045005.	0.8	38
20	A new class of stopping self-sustained waves: a factor determining the spatial dynamics of blood coagulation. <i>Physics-Usppekhi</i> , 2002, 45, 619-636.	0.8	34
21	Mathematical Model Reveals the Role of Memory CD8 T Cell Populations in Recall Responses to Influenza. <i>Frontiers in Immunology</i> , 2016, 7, 165.	2.2	33
22	Durability of immune responses to the BNT162b2 mRNA vaccine. <i>Med</i> , 2022, 3, 25-27.	2.2	33
23	A Coupled Diffusion-Kinetics Model for Analysis of Contact-Area FRAP Experiment. <i>Biophysical Journal</i> , 2008, 95, 910-919.	0.2	32
24	Insights into T Cell Recognition of Antigen: Significance of Two-Dimensional Kinetic Parameters. <i>Frontiers in Immunology</i> , 2012, 3, 86.	2.2	31
25	Exploring the impact of inoculum dose on host immunity and morbidity to inform model-based vaccine design. <i>PLoS Computational Biology</i> , 2018, 14, e1006505.	1.5	28
26	Pre-existing SARS-CoV-2 immunity influences potency, breadth, and durability of the humoral response to SARS-CoV-2 vaccination. <i>Cell Reports Medicine</i> , 2022, 3, 100603.	3.3	27
27	How sticky should a virus be? The impact of virus binding and release on transmission fitness using influenza as an example. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131083.	1.5	26
28	Humoral Responses Against SARS-CoV-2 and Variants of Concern After mRNA Vaccines in Patients With Non-Hodgkin Lymphoma and Chronic Lymphocytic Leukemia. <i>Journal of Clinical Oncology</i> , 2022, 40, 3020-3031.	0.8	26
29	Why Are CD8 T Cell Epitopes of Human Influenza A Virus Conserved?. <i>Journal of Virology</i> , 2019, 93, .	1.5	22
30	P-Selectin Glycoprotein Ligand-1 Forms Dimeric Interactions with E-Selectin but Monomeric Interactions with L-Selectin on Cell Surfaces. <i>PLoS ONE</i> , 2013, 8, e57202.	1.1	20
31	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. <i>Journal of Clinical Oncology</i> , 2022, 40, 3808-3816.	0.8	19
32	Regulatory and T Effector Cells Have Overlapping Low to High Ranges in TCR Affinities for Self during Demyelinating Disease. <i>Journal of Immunology</i> , 2015, 195, 4162-4170.	0.4	15
33	Influenza Immunization in the Context of Preexisting Immunity. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020, 11, a040964.	2.9	15
34	Vaccination reshapes the virus-specific T cell repertoire in unexposed adults. <i>Immunity</i> , 2021, 54, 1245-1256.e5.	6.6	15
35	Binary Time Series Modeling With Application to Adhesion Frequency Experiments. <i>Journal of the American Statistical Association</i> , 2008, 103, 1248-1259.	1.8	11
36	Adhesion Frequency Assay for <i>In Situ</i> Kinetics Analysis of Cross-Junctional Molecular Interactions at the Cell-Cell Interface. <i>Journal of Visualized Experiments</i> , 2011, , e3519.	0.2	11

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37	Dynamics and turnover of memory CD8 T cell responses following yellow fever vaccination. PLoS Computational Biology, 2021, 17, e1009468.	1.5	9
38	Hidden Markov Models With Applications in Cell Adhesion Experiments. Journal of the American Statistical Association, 2013, 108, 1469-1479.	1.8	8
39	Intermediate levels of vaccination coverage may minimize seasonal influenza outbreaks. PLoS ONE, 2018, 13, e0199674.	1.1	8
40	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
41	The kinetics of E-selectin- and P-selectin-induced intermediate activation of integrin $\alpha L \beta 2$ on neutrophils. Journal of Cell Science, 2021, 134, .	1.2	6
42	Persistence of Virus-Specific Antibody after Depletion of Memory B Cells. Journal of Virology, 2022, 96, e0002622.	1.5	4
43	Single-Molecule Recognition: Extracting Information from Individual Binding Events and Their Correlation. , 2009, , 591-610.		0