

Baoyu Liu

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,943
citations

567281

15
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

2045
citing authors

#	ARTICLE	IF	CITATIONS
1	Accumulation of Dynamic Catch Bonds between TCR and Agonist Peptide-MHC Triggers T Cell Signaling. <i>Cell</i> , 2014, 157, 357-368.	28.9	487
2	The kinetics of two-dimensional TCR and pMHC interactions determine T-cell responsiveness. <i>Nature</i> , 2010, 464, 932-936.	27.8	451
3	T Cell Receptor Signaling Is Limited by Docking Geometry to Peptide-Major Histocompatibility Complex. <i>Immunity</i> , 2011, 35, 681-693.	14.3	229
4	Two-Stage Cooperative T Cell Receptor-Peptide Major Histocompatibility Complex-CD8 Trimolecular Interactions Amplify Antigen Discrimination. <i>Immunity</i> , 2011, 34, 13-23.	14.3	172
5	A TCR mechanotransduction signaling loop induces negative selection in the thymus. <i>Nature Immunology</i> , 2018, 19, 1379-1390.	14.5	112
6	Mechano-regulation of Peptide-MHC Class I Conformations Determines TCR Antigen Recognition. <i>Molecular Cell</i> , 2019, 73, 1015-1027.e7.	9.7	95
7	Dynamic control of β 1 integrin adhesion by the plexinD1-sema3E axis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 379-384.	7.1	69
8	2D TCR-pMHC-CD8 kinetics determines T-cell responses in a self-antigen-specific TCR system. <i>European Journal of Immunology</i> , 2014, 44, 239-250.	2.9	57
9	Molecular Force Spectroscopy on Cells. <i>Annual Review of Physical Chemistry</i> , 2015, 66, 427-451.	10.8	57
10	Fluorescence Biomembrane Force Probe: Concurrent Quantitation of Receptor-ligand Kinetics and Binding-induced Intracellular Signaling on a Single Cell. <i>Journal of Visualized Experiments</i> , 2015, , e52975.	0.3	39
11	The cellular environment regulates in situ kinetics of T cell receptor interaction with peptide major histocompatibility complex. <i>European Journal of Immunology</i> , 2015, 45, 2099-2110.	2.9	37
12	Dual Biomembrane Force Probe enables single-cell mechanical analysis of signal crosstalk between multiple molecular species. <i>Scientific Reports</i> , 2017, 7, 14185.	3.3	33
13	Mechanobiology of T Cell Activation: To Catch a Bond. <i>Annual Review of Cell and Developmental Biology</i> , 2021, 37, 65-87.	9.4	27
14	2D Kinetic Analysis of TCR and CD8 Coreceptor for LCMV GP33 Epitopes. <i>Frontiers in Immunology</i> , 2018, 9, 2348.	4.8	24
15	Effect of Temperature on Tether Extraction, Surface Protrusion, and Cortical Tension of Human Neutrophils. <i>Biophysical Journal</i> , 2007, 93, 2923-2933.	0.5	19
16	A Hybrid Insulin Epitope Maintains High 2D Affinity for Diabetogenic T Cells in the Periphery. <i>Diabetes</i> , 2020, 69, 381-391.	0.6	12
17	Validation, In-Depth Analysis, and Modification of the Micropipette Aspiration Technique. <i>Cellular and Molecular Bioengineering</i> , 2009, 2, 351-365.	2.1	8
18	Tangential Tether Extraction and Spontaneous Tether Retraction of Human Neutrophils. <i>Biophysical Journal</i> , 2012, 103, 2257-2264.	0.5	6

#	ARTICLE	IF	CITATIONS
19	A Critical Insulin TCR Contact Residue Selects High-Affinity and Pathogenic Insulin-Specific T Cells. <i>Diabetes</i> , 2020, 69, 392-400.	0.6	6
20	A direct micropipette-based calibration method for atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2009, 80, 065109.	1.3	3
21	Cellular Membrane Tether (Nanotube) Retraction, Mobility, and Coalescence. <i>Biophysical Journal</i> , 2013, 104, 213a.	0.5	0