

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	Mechanobiology of T Cell Activation: To Catch a Bond. Annual Review of Cell and Developmental Biology, 2021, 37, 65-87.	9.4	27
2	A Critical Insulin TCR Contact Residue Selects High-Affinity and Pathogenic Insulin-Specific T Cells. Diabetes, 2020, 69, 392-400.	0.6	6
3	A Hybrid Insulin Epitope Maintains High 2D Affinity for Diabetogenic T Cells in the Periphery. Diabetes, 2020, 69, 381-391.	0.6	12
4	Mechano-regulation of Peptide-MHC Class I Conformations Determines TCR Antigen Recognition. Molecular Cell, 2019, 73, 1015-1027.e7.	9.7	95
5	A TCR mechanotransduction signaling loop induces negative selection in the thymus. Nature Immunology, 2018, 19, 1379-1390.	14.5	112
6	2D Kinetic Analysis of TCR and CD8 Coreceptor for LCMV GP33 Epitopes. Frontiers in Immunology, 2018, 9, 2348.	4.8	24
7	Dual Biomembrane Force Probe enables single-cell mechanical analysis of signal crosstalk between multiple molecular species. Scientific Reports, 2017, 7, 14185.	3.3	33
8	Fluorescence Biomembrane Force Probe: Concurrent Quantitation of Receptor-ligand Kinetics and Binding-induced Intracellular Signaling on a Single Cell. Journal of Visualized Experiments, 2015, , e52975.	0.3	39
9	The cellular environment regulates in situ kinetics of Tâ€cell receptor interaction with peptide major histocompatibility complex. European Journal of Immunology, 2015, 45, 2099-2110.	2.9	37
10	Molecular Force Spectroscopy on Cells. Annual Review of Physical Chemistry, 2015, 66, 427-451.	10.8	57
11	Dynamic control of Î²1 integrin adhesion by the plexinD1-sema3E axis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 379-384.	7.1	69
12	2D TCRâ€pMHCâ€CD8 kinetics determines Tâ€cell responses in a selfâ€antigenâ€specific TCR system. European Journal of Immunology, 2014, 44, 239-250.	2.9	57
13	Accumulation of Dynamic Catch Bonds between TCR and Agonist Peptide-MHC Triggers T Cell Signaling. Cell, 2014, 157, 357-368.	28.9	487
14	Cellular Membrane Tether (Nanotube) Retraction, Mobility, and Coalescence. Biophysical Journal, 2013, 104, 213a.	0.5	0
15	Tangential Tether Extraction and Spontaneous Tether Retraction of Human Neutrophils. Biophysical Journal, 2012, 103, 2257-2264.	0.5	6
16	T Cell Receptor Signaling Is Limited by Docking Geometry to Peptide-Major Histocompatibility Complex. Immunity, 2011, 35, 681-693.	14.3	229
17	Two-Stage Cooperative T Cell Receptor-Peptide Major Histocompatibility Complex-CD8 Trimolecular Interactions Amplify Antigen Discrimination. Immunity, 2011, 34, 13-23.	14.3	172
18	The kinetics of two-dimensional TCR and pMHC interactions determine T-cell responsiveness. Nature, 2010, 464, 932-936.	27.8	451

#	ARTICLE	IF	CITATIONS
19	A direct micropipette-based calibration method for atomic force microscope cantilevers. Review of Scientific Instruments, 2009, 80, 065109.	1.3	3
20	Validation, In-Depth Analysis, and Modification of the Micropipette Aspiration Technique. Cellular and Molecular Bioengineering, 2009, 2, 351-365.	2.1	8
21	Effect of Temperature on Tether Extraction, Surface Protrusion, and Cortical Tension of Human Neutrophils. Biophysical Journal, 2007, 93, 2923-2933.	0.5	19