Johannes B Huppa

List of Publications by Year
in descending order

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72 papers	5,550 citations	126907 33 h-index	118850 62 g-index
85 all docs	85 docs citations	85 times ranked	6472 citing authors

#	Article	IF	Citations
1	TCR and Lat are expressed on separate protein islands on T cell membranes and concatenate during activation. Nature Immunology, 2010, 11, 90-96.	14.5	571
2	T-cell-antigen recognition and the immunological synapse. Nature Reviews Immunology, 2003, 3, 973-983.	22.7	506
3	T cell killing does not require the formation of a stable mature immunological synapse. Nature Immunology, 2004, 5, 524-530.	14.5	496
4	TCRâ€“peptideâ€“MHC interactions in situ show accelerated kinetics and increased affinity. Nature, 2010, 463, 963-967.	27.8	449
5	Continuous T cell receptor signaling required for synapse maintenance and full effector potential. Nature Immunology, 2003, 4, 749-755.	14.5	366
6	Agonist/endogenous peptideâ€“MHC heterodimers drive T cell activation and sensitivity. Nature, 2005, 434, 238-243.	27.8	313
7	CD4 enhances T cell sensitivity to antigen by coordinating Lck accumulation at the immunological synapse. Nature Immunology, 2004, 5, 791-799.	14.5	228
8	Distinct TCR signaling pathways drive proliferation and cytokine production in T cells. Nature Immunology, 2013, 14, 262-270.	14.5	188
9	The Î± Chain of the T Cell Antigen Receptor Is Degraded in the Cytosol. Immunity, 1997, 7, 113-122.	14.3	163
10	SARS-CoV-2 mutations in MHC-I-restricted epitopes evade CD8 ⁺ T cell responses. Science Immunology, 2021, 6, .	11.9	143
11	T Cells as a Self-Referential, Sensory Organ. Annual Review of Immunology, 2007, 25, 681-695.	21.8	141
12	Assessment of costimulation and coinhibition in a triple parameter T cell reporter line: Simultaneous measurement of NF-ÎºB, NFAT and AP-1. Journal of Immunological Methods, 2016, 430, 10-20.	1.4	140
13	Dislocation of Type I Membrane Proteins from the ER to the Cytosol Is Sensitive to Changes in Redox Potential. Journal of Cell Biology, 1998, 142, 365-376.	5.2	122
14	RASGRP1 deficiency causes immunodeficiency with impaired cytoskeletal dynamics. Nature Immunology, 2016, 17, 1352-1360.	14.5	115
15	Monomeric TCRs drive T cell antigen recognition. Nature Immunology, 2018, 19, 487-496.	14.5	111
16	Dynamics of Cell Surface Molecules During T Cell Recognition. Annual Review of Biochemistry, 2003, 72, 717-742.	11.1	105
17	TCRs are randomly distributed on the plasma membrane of resting antigen-experienced T cells. Nature Immunology, 2018, 19, 821-827.	14.5	103
18	Linker for Activation of T Cells, Î¶-Associated Protein-70, and Src Homology 2 Domain-Containing Leukocyte Protein-76 are Required for TCR-Induced Microtubule-Organizing Center Polarization. Journal of Immunology, 2003, 171, 860-866.	0.8	98

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19	In Vitro Translation and Assembly of a Complete T Cell Receptorâ€“CD3 Complex. Journal of Experimental Medicine, 1997, 186, 393-403.	8.5	95
20	Inefficient CAR-proximal signaling blunts antigen sensitivity. Nature Immunology, 2020, 21, 848-856.	14.5	83
21	Evidence for a functional sidedness to the Î±Î²TCR. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5094-5099.	7.1	69
22	Mutations affecting the actin regulator WD repeatâ€“containing protein 1 lead to aberrant lymphoid immunity. Journal of Allergy and Clinical Immunology, 2018, 142, 1589-1604.e11.	2.9	64
23	The e S-Sence of -SH in the ER. Cell, 1998, 92, 145-148.	28.9	63
24	DNA origami demonstrate the unique stimulatory power of single pMHCs as T cell antigens. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	63
25	Engineering AvidCARs for combinatorial antigen recognition and reversible control of CAR function. Nature Communications, 2020, 11, 4166.	12.8	53
26	The SPPL3-Defined Glycosphingolipid Repertoire Orchestrates HLA Class I-Mediated Immune Responses. Immunity, 2021, 54, 132-150.e9.	14.3	52
27	Temporal analysis of T-cell receptor-imposed forces via quantitative single molecule FRET measurements. Nature Communications, 2021, 12, 2502.	12.8	50
28	Linking molecular and cellular events in T-cell activation and synapse formation. Seminars in Immunology, 2003, 15, 307-315.	5.6	49
29	A cellular platform for the evaluation of immune checkpoint molecules. Oncotarget, 2017, 8, 64892-64906.	1.8	48
30	Photocrosslinkable pMHC monomers stain T cells specifically and cause ligand-bound TCRs to be 'preferentially' transported to the cSMAC. Nature Immunology, 2012, 13, 674-680.	14.5	44
31	The Interdisciplinary Science of T-cell Recognition. Advances in Immunology, 2013, 119, 1-50.	2.2	43
32	Extracellular Purine Metabolism Is the Switchboard of Immunosuppressive Macrophages and a Novel Target to Treat Diseases With Macrophage Imbalances. Frontiers in Immunology, 2018, 9, 852.	4.8	39
33	The cytoskeletal regulator HEM1 governs B cell development and prevents autoimmunity. Science Immunology, 2020, 5, .	11.9	37
34	Determination of Interaction Kinetics between the T Cell Receptor and Peptide-Loaded MHC Class II via Single-Molecule Diffusion Measurements. Biophysical Journal, 2012, 103, L17-L19.	0.5	36
35	Functionalized Bead Assay to Measure Three-dimensional Traction Forces during T-cell Activation. Nano Letters, 2021, 21, 507-514.	9.1	28
36	TIMâ€3 and CEACAM1 do not interact in cis and in trans. European Journal of Immunology, 2020, 50, 1126-1141.	2.9	25

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37	Unscrambling fluorophore blinking for comprehensive cluster detection via photoactivated localization microscopy. Nature Communications, 2020, 11, 4993.	12.8	24
38	Prospective Tracking of Donor-Reactive T-Cell Clones in the Circulation and Rejecting Human Kidney Allografts. Frontiers in Immunology, 2021, 12, 750005.	4.8	20
39	Strategies for the Site-Specific Decoration of DNA Origami Nanostructures with Functionally Intact Proteins. ACS Nano, 2021, 15, 15057-15068.	14.6	18
40	Three-Dimensional Single Molecule Localization Microscopy Reveals the Topography of the Immunological Synapse at Isotropic Precision below 15 nm. Nano Letters, 2021, 21, 9247-9255.	9.1	13
41	Time 2EVOLVE: predicting efficacy of engineered T-cells â€“ how far is the bench from the bedside?. , 2022, 10, e003487.		13
42	How drag sharpens a T cellâ€™s view on antigen. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16669-16671.	7.1	11
43	Homo- and Heteroassociations Drive Activation ofÂErbB3. Biophysical Journal, 2019, 117, 1935-1947.	0.5	11
44	Functional Development of the T Cell Receptor for Antigen. Progress in Molecular Biology and Translational Science, 2010, 92, 65-100.	1.7	10
45	Rapid multiplex analysis of lipid raft components with single-cell resolution. Science Signaling, 2015, 8, rs11.	3.6	9
46	Getting CD19 Into Shape: Expression of Natively Folded â€œDifficult-to- Expressâ€•CD19 for Staining and Stimulation of CAR-T Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 49.	4.1	9
47	Mechanosurveillance: Tiptoeing T Cells. Frontiers in Immunology, 2022, 13, .	4.8	9
48	Measuring TCR-pMHC Binding In Situ using a FRET-based Microscopy Assay. Journal of Visualized Experiments, 2015, , e53157.	0.3	7
49	Single Molecule Fluorescence Microscopy on Planar Supported Bilayers. Journal of Visualized Experiments, 2015, , e53158.	0.3	7
50	Adjuvants and Vaccines Used in Allergen-Specific Immunotherapy Induce Neutrophil Extracellular Traps. Vaccines, 2021, 9, 321.	4.4	7
51	Histone deacetylase 1 controls CD4+ T cell trafficking in autoinflammatory diseases. Journal of Autoimmunity, 2021, 119, 102610.	6.5	7
52	Quantitative Imaging of Lymphocyte Membrane Protein Reorganization and Signaling. Biophysical Journal, 2005, 88, 579-589.	0.5	6
53	FÃ¶rster Resonance Energy Transfer to Study TCR-pMHC Interactions in the Immunological Synapse. Methods in Molecular Biology, 2017, 1584, 207-229.	0.9	5
54	A Multimodal Platform for Simultaneous T-cell Imaging, Defined Activation, and Mechanobiological Characterization. Cells, 2021, 10, 235.	4.1	4

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55	Spatial Requirements for T-Cell Receptor Triggering Probed via Functionalized DNA Origami Platforms. Biophysical Journal, 2020, 118, 245a.	0.5	4
56	Improved Peptide-Discrimination by Force-Induced Unbinding of T Cell Receptor from Peptide-MHC. Biophysical Journal, 2013, 104, 380a.	0.5	2
57	Monomeric TCR-CD3 Complexes Drive T-Cell Antigen Recognition. Biophysical Journal, 2018, 114, 108a.	0.5	2
58	SARS-CoV-2-Specific Antibody (Ab) Levels and the Kinetic of Ab Decline Determine Ab Persistence Over 1 Year. Frontiers in Medicine, 2022, 9, 822316.	2.6	2
59	Nanoscale Organization and Mobility of Ligands Direct T Cell Activation. Biophysical Journal, 2019, 116, 530a.	0.5	1
60	DNA Origami Demonstrate the Unique Stimulatory Power of Single pMHCs as T-Cell Antigens. Biophysical Journal, 2021, 120, 330a.	0.5	1
61	Characterization of CD8 T Cell-Mediated Mutations in the Immunodominant Epitope GP33-41 of Lymphocytic Choriomeningitis Virus. Frontiers in Immunology, 2021, 12, 638485.	4.8	1
62	Response to 'Tracking synapse-associated TCRs'. Nature Immunology, 2004, 5, 117-117.	14.5	0
63	Techniques for Direct Imaging of Nanoplatforms in the Live Cell Plasma Membrane. Biophysical Journal, 2013, 104, 245a-246a.	0.5	0
64	Visualization of Mechanical Forces within the Immunological Synapse. Biophysical Journal, 2016, 110, 94a.	0.5	0
65	Characterization of PS-CFP2 for Reliable Super-Resolution Microscopy. Biophysical Journal, 2017, 112, 143a.	0.5	0
66	Measurement of Forces in the Immunological Synapse. Biophysical Journal, 2017, 112, 532a.	0.5	0
67	Superresolution Microscopy of the T Cell Receptor in the Immunological Synapse. Biophysical Journal, 2018, 114, 535a.	0.5	0
68	Probing Lipid Interactions of the T-cell Receptor Complex: A Micropatterning Approach. Biophysical Journal, 2018, 114, 108a.	0.5	0
69	Comprehensive Fluorophore Blinking Analysis Platform as a Prerequisite for Palm Data Interpretation. Biophysical Journal, 2019, 116, 133a.	0.5	0
70	A FRET-based Sensor for Probing Forces Exerted by Single T Cell Receptors on Their Ligands. Biophysical Journal, 2020, 118, 252a.	0.5	0
71	Comprehensive Fluorophore Blinking Analysis Platform as a Prerequisite for Cluster Detection via Photoavticated Localization Microscopy. Biophysical Journal, 2021, 120, 182a.	0.5	0
72	Automated Two-dimensional Spatiotemporal Analysis of Mobile Single-molecule FRET Probes. Journal of Visualized Experiments, 2021, , .	0.3	0