

Pavel Tolar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

3,253
citations

24
h-index

57
g-index

57
ext. papers

3,857
ext. citations

11.3
avg, IF

5.29
L-index

#	Paper	IF	Citations
49	Chronic active B-cell-receptor signalling in diffuse large B-cell lymphoma. <i>Nature</i> , 2010 , 463, 88-92	50.4	1149
48	The initiation of antigen-induced B cell antigen receptor signaling viewed in living cells by fluorescence resonance energy transfer. <i>Nature Immunology</i> , 2005 , 6, 1168-76	19.1	185
47	B cells use mechanical energy to discriminate antigen affinities. <i>Science</i> , 2013 , 340, 1587-90	33.3	183
46	The constant region of the membrane immunoglobulin mediates B cell-receptor clustering and signaling in response to membrane antigens. <i>Immunity</i> , 2009 , 30, 44-55	32.3	173
45	Structure-function analysis of Lyn kinase association with lipid rafts and initiation of early signaling events after Fcepsilon receptor I aggregation. <i>Molecular and Cellular Biology</i> , 2001 , 21, 8318-28	4.8	157
44	Membrane heterogeneities in the formation of B cell receptor-Lyn kinase microclusters and the immune synapse. <i>Journal of Cell Biology</i> , 2008 , 182, 367-79	7.3	117
43	Germinal center B cells recognize antigen through a specialized immune synapse architecture. <i>Nature Immunology</i> , 2016 , 17, 870-7	19.1	106
42	Antigen affinity discrimination is an intrinsic function of the B cell receptor. <i>Journal of Experimental Medicine</i> , 2010 , 207, 1095-111	16.6	103
41	Intrinsic properties of immunoglobulin IgG1 isotype-switched B cell receptors promote microclustering and the initiation of signaling. <i>Immunity</i> , 2010 , 32, 778-89	32.3	103
40	Fluorescence resonance energy transfer in living cells reveals dynamic membrane changes in the initiation of B cell signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8143-8	11.5	100
39	Systems-wide analysis of BCR signalosomes and downstream phosphorylation and ubiquitylation. <i>Molecular Systems Biology</i> , 2015 , 11, 810	12.2	82
38	Cytoskeletal control of B cell responses to antigens. <i>Nature Reviews Immunology</i> , 2017 , 17, 621-634	36.5	76
37	B cell antigen extraction is regulated by physical properties of antigen-presenting cells. <i>Journal of Cell Biology</i> , 2017 , 216, 217-230	7.3	72
36	Antigen-induced oligomerization of the B cell receptor is an early target of Fc gamma RIIB inhibition. <i>Journal of Immunology</i> , 2010 , 184, 1977-89	5.3	61
35	Viewing the antigen-induced initiation of B-cell activation in living cells. <i>Immunological Reviews</i> , 2008 , 221, 64-76	11.3	54
34	The molecular assembly and organization of signaling active B-cell receptor oligomers. <i>Immunological Reviews</i> , 2009 , 232, 34-41	11.3	52
33	WASp-dependent actin cytoskeleton stability at the dendritic cell immunological synapse is required for extensive, functional T cell contacts. <i>Journal of Leukocyte Biology</i> , 2016 , 99, 699-710	6.5	44

32	Intrinsic properties of human germinal center B cells set antigen affinity thresholds. <i>Science Immunology</i> , 2018 , 3,	28	40
31	Structural and functional studies of Igalphabeta and its assembly with the B cell antigen receptor. <i>Structure</i> , 2010 , 18, 934-43	5.2	38
30	Direct interaction of Syk and Lyn protein tyrosine kinases in rat basophilic leukemia cells activated via type I Fc epsilon receptors. <i>European Journal of Immunology</i> , 1997 , 27, 321-8	6.1	32
29	A conformation-induced oligomerization model for B cell receptor microclustering and signaling. <i>Current Topics in Microbiology and Immunology</i> , 2010 , 340, 155-69	3.3	30
28	Force generation in B-cell synapses: mechanisms coupling B-cell receptor binding to antigen internalization and affinity discrimination. <i>Advances in Immunology</i> , 2014 , 123, 69-100	5.6	27
27	It's all about change: the antigen-driven initiation of B-cell receptor signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010 , 2, a002295	10.2	27
26	Molecular Mechanisms of B Cell Antigen Gathering and Endocytosis. <i>Current Topics in Microbiology and Immunology</i> , 2016 , 393, 45-63	3.3	25
25	Mechanics of antigen extraction in the B cell synapse. <i>Molecular Immunology</i> , 2018 , 101, 319-328	4.3	22
24	Signaling assemblies formed in mast cells activated via Fc epsilon receptor I dimers. <i>European Journal of Immunology</i> , 2004 , 34, 2209-19	6.1	22
23	Protein tyrosine kinase Syk is involved in Thy-1 signaling in rat basophilic leukemia cells. <i>European Journal of Immunology</i> , 1997 , 27, 3389-97	6.1	19
22	Myosin II Synergizes with F-Actin to Promote DNGR-1-Dependent Cross-Presentation of Dead Cell-Associated Antigens. <i>Cell Reports</i> , 2018 , 24, 419-428	10.6	17
21	Positive and negative regulation of Fc epsilon receptor I-mediated signaling events by Lyn kinase C-terminal tyrosine phosphorylation. <i>European Journal of Immunology</i> , 2004 , 34, 1136-45	6.1	15
20	Myosin IIa Promotes Antibody Responses by Regulating B Cell Activation, Acquisition of Antigen, and Proliferation. <i>Cell Reports</i> , 2018 , 23, 2342-2353	10.6	15
19	A method for analyzing protein-protein interactions in the plasma membrane of live B cells by fluorescence resonance energy transfer imaging as acquired by total internal reflection fluorescence microscopy. <i>Methods in Molecular Biology</i> , 2010 , 591, 159-83	1.4	14
18	B cells extract antigens at Arp2/3-generated actin foci interspersed with linear filaments. <i>ELife</i> , 2019 , 8,	8.9	13
17	Activation of the B cell receptor leads to increased membrane proximity of the IgE cytoplasmic domain. <i>PLoS ONE</i> , 2013 , 8, e79148	3.7	11
16	Plasma Membrane Sheets for Studies of B Cell Antigen Internalization from Immune Synapses. <i>Methods in Molecular Biology</i> , 2017 , 1584, 77-88	1.4	10
15	MHC class II cell-autonomously regulates self-renewal and differentiation of normal and malignant B cells. <i>Blood</i> , 2019 , 133, 1108-1118	2.2	8

14	Isolation of lipid rafts from B lymphocytes. <i>Methods in Molecular Biology</i> , 2004 , 271, 213-24	1.4	8
13	Lipid Rafts and Their Role in Signal Transduction-Mast Cells as a Model. <i>Trends in Glycoscience and Glycotechnology</i> , 2001 , 13, 261-279	0.1	7
12	Endophilin A2 regulates B-cell endocytosis and is required for germinal center and humoral responses. <i>EMBO Reports</i> , 2021 , 22, e51328	6.5	7
11	Monocytes work harder under pressure. <i>Nature Immunology</i> , 2019 , 20, 1422-1424	19.1	5
10	Inside the microcluster: antigen receptor signalling viewed with molecular imaging tools. <i>Immunology</i> , 2011 , 133, 271-7	7.8	5
9	Chronic calcium signaling in IgE B cells limits plasma cell differentiation and survival. <i>Immunity</i> , 2021 ,	32.3	4
8	Pathogenic ACVR1 activation by Activin A-induced receptor clustering and autophosphorylation. <i>EMBO Journal</i> , 2021 , 40, e106317	13	3
7	Imaging B-cell receptor signaling by single-molecule techniques. <i>Methods in Molecular Biology</i> , 2009 , 571, 437-53	1.4	2
6	Great stretches for your antibody workout. <i>Nature Nanotechnology</i> , 2019 , 14, 101-102	28.7	2
5	DNA-Based Probes for Measuring Mechanical Forces in Cell-Cell Contacts: Application to B Cell Antigen Extraction from Immune Synapses. <i>Methods in Molecular Biology</i> , 2018 , 1707, 69-80	1.4	1
4	Change we can believe in--of the conformational type. Workshop on the Initiation of Antigen Receptor Signaling. <i>EMBO Reports</i> , 2009 , 10, 331-6	6.5	1
3	Endophilin A2 regulates B cell protein trafficking and humoral responses		1
2	B cells extract antigens using Arp2/3-generated actin foci interspersed with linear filaments		1
1	Membrane heterogeneities in the formation of B cell receptor Lyn kinase microclusters and the immune synapse. <i>Journal of Experimental Medicine</i> , 2008 , 205, i20-i20	16.6	