Susan K Pierce

List of Publications by Year
in descending order

94 papers	9,449 citations	50276 46 h-index	40979 93 g-index
97 all docs	97 docs citations	97 times ranked	10811 citing authors

#	Article	IF	Citations
1	Chronic active B-cell-receptor signalling in diffuse large B-cell lymphoma. Nature, 2010, 463, 88-92.	27.8	1,402
2	Location is Everything: Lipid Rafts and Immune Cell Signaling. Annual Review of Immunology, 2003, 21, 457-481.	21.8	453
3	A Role for Lipid Rafts in B Cell Antigen Receptor Signaling and Antigen Targeting. Journal of Experimental Medicine, 1999, 190, 1549-1560.	8.5	439
4	A prospective analysis of the Ab response to Plasmodium falciparum before and after a malaria season by protein microarray. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6958-6963.	7.1	412
5	Atypical Memory B Cells Are Greatly Expanded in Individuals Living in a Malaria-Endemic Area. Journal of Immunology, 2009, 183, 2176-2182.	0.8	398
6	B cell memory: building two walls of protection against pathogens. Nature Reviews Immunology, 2020, 20, 229-238.	22.7	327
7	Malaria-associated atypical memory B cells exhibit markedly reduced B cell receptor signaling and effector function. ELife, 2015, 4, .	6.0	260
8	Malaria Immunity in Man and Mosquito: Insights into Unsolved Mysteries of a Deadly Infectious Disease. Annual Review of Immunology, 2014, 32, 157-187.	21.8	257
9	The B Cell Receptor Governs the Subcellular Location of Toll-like Receptor 9 Leading to Hyperresponses to DNA-Containing Antigens. Immunity, 2008, 28, 799-809.	14.3	255
10	The Plasmodium falciparum-Specific Human Memory B Cell Compartment Expands Gradually with Repeated Malaria Infections. PLoS Pathogens, 2010, 6, e1000912.	4.7	221
11	The Constant Region of the Membrane Immunoglobulin Mediates B Cell-Receptor Clustering and Signaling in Response to Membrane Antigens. Immunity, 2009, 30, 44-55.	14.3	214
12	The initiation of antigen-induced B cell antigen receptor signaling viewed in living cells by fluorescence resonance energy transfer. Nature Immunology, 2005, 6, 1168-1176.	14.5	208
13	The CD19/CD21 Complex Functions to Prolong B Cell Antigen Receptor Signaling from Lipid Rafts. Immunity, 2001, 14, 169-179.	14.3	200
14	Second signals rescue B cells from activation-induced mitochondrial dysfunction and death. Nature Immunology, 2018, 19, 871-884.	14.5	166
15	The tipping points in the initiation of B cell signalling: how small changes make big differences. Nature Reviews Immunology, 2010, 10, 767-777.	22.7	157
16	Atypical memory B cells in human chronic infectious diseases: An interim report. Cellular Immunology, 2017, 321, 18-25.	3.0	157
17	Epsteinâ€“Barr Virus Coopts Lipid Rafts to Block the Signaling and Antigen Transport Functions of the BCR. Immunity, 2001, 14, 57-67.	14.3	149
18	How Location Governs Tollâ€Like Receptor Signaling. Traffic, 2009, 10, 621-628.	2.7	145

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19	Malaria-induced interferon-Î³ drives the expansion of Tbethi atypical memory B cells. PLoS Pathogens, 2017, 13, e1006576.	4.7	139
20	Membrane heterogeneities in the formation of B cell receptorâ€“Lyn kinase microclusters and the immune synapse. Journal of Cell Biology, 2008, 182, 367-379.	5.2	134
21	Translocation of the B Cell Antigen Receptor into Lipid Rafts Reveals a Novel Step in Signaling. Journal of Immunology, 2001, 166, 3693-3701.	0.8	128
22	Young Lives Lost as B Cells Falter: What We Are Learning About Antibody Responses in Malaria. Journal of Immunology, 2013, 190, 3039-3046.	0.8	122
23	Attenuation of HIV-associated human B cell exhaustion by siRNA downregulation of inhibitory receptors. Journal of Clinical Investigation, 2011, 121, 2614-2624.	8.2	121
24	Antigen affinity discrimination is an intrinsic function of the B cell receptor. Journal of Experimental Medicine, 2010, 207, 1095-1111.	8.5	120
25	Fluorescence resonance energy transfer in living cells reveals dynamic membrane changes in the initiation of B cell signaling. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8143-8148.	7.1	115
26	Intrinsic Properties of immunoglobulin IgG1 Isotype-Switched B Cell Receptors Promote Microclustering and the Initiation of Signaling. Immunity, 2010, 32, 778-789.	14.3	114
27	Antigen-Presenting Function of B Lymphocytes. Immunological Reviews, 1988, 106, 149-180.	6.0	113
28	Cutting Edge: B Cell Antigen Receptor Signaling Occurs Outside Lipid Rafts in Immature B Cells. Journal of Immunology, 2000, 165, 6020-6023.	0.8	108
29	B cell signaling in context. Nature Immunology, 2019, 20, 963-969.	14.5	104
30	CD8+ T Cells Induce Fatal Brainstem Pathology during Cerebral Malaria via Luminal Antigen-Specific Engagement of Brain Vasculature. PLoS Pathogens, 2016, 12, e1006022.	4.7	104
31	Sickle Cell Trait Is Associated with a Delayed Onset of Malaria: Implications for Timeâ€toâ€Event Analysis in Clinical Studies of Malaria. Journal of Infectious Diseases, 2008, 198, 1265-1275.	4.0	96
32	NK cells inhibit Plasmodium falciparum growth in red blood cells via antibody-dependent cellular cytotoxicity. ELife, 2018, 7, .	6.0	92
33	FcRL4 acts as an adaptive to innate molecular switch dampening BCR signaling and enhancing TLR signaling. Blood, 2011, 118, 6332-6341.	1.4	90
34	Endocytosed BCRs sequentially regulate MAPK and Akt signaling pathways from intracellular compartments. Nature Immunology, 2011, 12, 1119-1126.	14.5	86
35	Adaptive NK cells in people exposed to Plasmodium falciparum correlate with protection from malaria. Journal of Experimental Medicine, 2019, 216, 1280-1290.	8.5	80
36	The TLR9 Ligand CpG Promotes the Acquisition of Plasmodium falciparum-Specific Memory B Cells in Malaria-Naive Individuals. Journal of Immunology, 2009, 182, 3318-3326.	0.8	73

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37	CD8+ T cells target cerebrovasculature in children with cerebral malaria. Journal of Clinical Investigation, 2020, 130, 1128-1138.	8.2	73
38	Antigen-Induced Oligomerization of the B Cell Receptor Is an Early Target of FcÎ³RIIB Inhibition. Journal of Immunology, 2010, 184, 1977-1989.	0.8	70
39	The molecular assembly and organization of signaling active Bâ€cell receptor oligomers. Immunological Reviews, 2009, 232, 34-41.	6.0	68
40	Shared transcriptional profiles of atypical B cells suggest common drivers of expansion and function in malaria, HIV, and autoimmunity. Science Advances, 2021, 7, .	10.3	68
41	Targeting glutamine metabolism rescues mice from late-stage cerebral malaria. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13075-13080.	7.1	66
42	Intrinsic properties of human germinal center B cells set antigen affinity thresholds. Science Immunology, 2018, 3, .	11.9	65
43	Toll-like receptor 9 antagonizes antibody affinity maturation. Nature Immunology, 2018, 19, 255-266.	14.5	63
44	World Malaria Day 2009: What Malaria Knows about the Immune System That Immunologists Still Do Not. Journal of Immunology, 2009, 182, 5171-5177.	0.8	61
45	Genetic susceptibility to systemic lupus erythematosus protects against cerebral malaria in mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1122-1127.	7.1	54
46	The Scaffolding Protein Synapse-Associated Protein 97 Is Required for Enhanced Signaling Through Isotype-Switched IgG Memory B Cell Receptors. Science Signaling, 2012, 5, ra54.	3.6	54
47	Structural and Functional Studies of IgÎ±Î² and Its Assembly with the B Cell Antigen Receptor. Structure, 2010, 18, 934-943.	3.3	52
48	CD40-CD40 ligand interactions stimulate B cell antigen processing. European Journal of Immunology, 1995, 25, 3249-3255.	2.9	43
49	Inhibiting the Mammalian Target of Rapamycin Blocks the Development of Experimental Cerebral Malaria. MBio, 2015, 6, e00725.	4.1	42
50	The nanoscale spatial organization of B-cell receptors on immunoglobulin Mâ€“ and Gâ€“expressing human B-cells. Molecular Biology of the Cell, 2017, 28, 511-523.	2.1	40
51	Increased Mitochondrial Biogenesis and Reactive Oxygen Species Production Accompany Prolonged CD4+ T Cell Activation. Journal of Immunology, 2018, 201, 3294-3306.	0.8	39
52	A Simple, Versatile Antibody-Based Barcoding Method for Flow Cytometry. Journal of Immunology, 2016, 197, 2027-2038.	0.8	38
53	No receptor stands alone: IgG B-cell receptor intrinsic and extrinsic mechanisms contribute to antibody memory. Cell Research, 2014, 24, 651-664.	12.0	36
54	The V Gene Repertoires of Classical and Atypical Memory B Cells in Malaria-Susceptible West African Children. Journal of Immunology, 2015, 194, 929-939.	0.8	36

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55	It's All About Change: The Antigen-driven Initiation of B-Cell Receptor Signaling. Cold Spring Harbor Perspectives in Biology, 2010, 2, a002295-a002295.	5.5	33
56	Peptides related to the antigenic determinant block T cell recognition of the native protein as processed by antigen-presenting cells. European Journal of Immunology, 1986, 16, 721-727.	2.9	32
57	A Conformation-Induced Oligomerization Model for B cell Receptor Microclustering and Signaling. Current Topics in Microbiology and Immunology, 2010, 340, 155-169.	1.1	32
58	Intrinsic Differences in the Initiation of B Cell Receptor Signaling Favor Responses of Human IgG+ Memory B Cells over IgM+ Naive B Cells. Journal of Immunology, 2012, 188, 3332-3341.	0.8	32
59	The autoinhibitory C-terminal SH2 domain of phospholipase Câ€“Î³2 stabilizes B cell receptor signalosome assembly. Science Signaling, 2014, 7, ra89.	3.6	32
60	An Optimized Protocol to Analyze Glycolysis and Mitochondrial Respiration in Lymphocytes. Journal of Visualized Experiments, 2016, , .	0.3	31
61	From zero to sixty and back to zero again: the metabolic life of B cells. Current Opinion in Immunology, 2019, 57, 1-7.	5.5	31
62	Antigen presentation for T cell interleukin-2 secretion is a late acquisition of neonatal B cells. European Journal of Immunology, 1992, 22, 2923-2928.	2.9	30
63	Expression of inhibitory receptors by B cells in chronic human infectious diseases restricts responses to membrane-associated antigens. Science Advances, 2020, 6, eaba6493.	10.3	30
64	IgG3 regulates tissue-like memory B cells in HIV-infected individuals. Nature Immunology, 2018, 19, 1001-1012.	14.5	27
65	A Method for Analyzing Proteinâ€“Protein Interactions in the Plasma Membrane of Live B Cells by Fluorescence Resonance Energy Transfer Imaging as Acquired by Total Internal Reflection Fluorescence Microscopy. Methods in Molecular Biology, 2010, 591, 159-183.	0.9	27
66	MRI demonstrates glutamine antagonist-mediated reversal of cerebral malaria pathology in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12024-E12033.	7.1	26
67	The Differentiation in vitro of Human Tonsil B Cells With the Phenotypic and Functional Characteristics of T-bet+ Atypical Memory B Cells in Malaria. Frontiers in Immunology, 2019, 10, 852.	4.8	26
68	A Role for MHC Class II Antigen Processing in B Cell Development. International Reviews of Immunology, 2000, 19, 139-155.	3.3	24
69	B Cells Produce Type 1 IFNs in Response to the TLR9 Agonist CpG-A Conjugated to Cationic Lipids. Journal of Immunology, 2017, 199, 931-940.	0.8	21
70	Exhaustion may not be in the human B cell vocabulary, at least not in malaria. Immunological Reviews, 2019, 292, 139-148.	6.0	21
71	Desperately Seeking Therapies for Cerebral Malaria. Journal of Immunology, 2020, 204, 327-334.	0.8	21
72	Longitudinal analysis of naturally acquired PfEMP1 CIDR domain variant antibodies identifies associations with malaria protection. JCI Insight, 2020, 5, .	5.0	20

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73	Virus infection blocks the processing and presentation of exogenous antigen with the major histocompatibility complex class II molecules. European Journal of Immunology, 1992, 22, 2055-2062.	2.9	18
74	The influence of CD40 on the association of the B cell antigen receptor with lipid rafts in mature and immature cells. European Journal of Immunology, 2001, 31, 3789-3797.	2.9	18
75	Antigen presentation is a function of all B cell subpopulations separated on the basis of size. European Journal of Immunology, 1986, 16, 411-416.	2.9	16
76	Testing in Mice the Hypothesis That Melanin Is Protective in Malaria Infections. PLoS ONE, 2012, 7, e29493.	2.5	16
77	T cellâ€dependent antigen adjuvanted with DOTAPâ€CpGâ€B but not DOTAPâ€CpGâ€A induces robust germinal center responses and high affinity antibodies in mice. European Journal of Immunology, 2017, 47, 1890-1899.	2.9	16
78	Atypical B cells in chronic infectious diseases and systemic autoimmunity: puzzles with many missing pieces. Current Opinion in Immunology, 2022, 77, 102227.	5.5	16
79	The Regulation of Inherently Autoreactive VH4-34â€“Expressing B Cells in Individuals Living in a Malaria-Endemic Area of West Africa. Journal of Immunology, 2016, 197, 3841-3849.	0.8	15
80	T cell activation by processed antigen is equally blocked by I-E and I-A-restricted immunodominant peptides. European Journal of Immunology, 1987, 17, 1605-1609.	2.9	13
81	Do we know enough to find an adjunctive therapy for cerebral malaria in African children?. F1000Research, 2017, 6, 2039.	1.6	11
82	Characteristics of peptides which compete for presented antigen-binding sites on antigen-presenting cells. European Journal of Immunology, 1990, 20, 953-960.	2.9	10
83	Formation of BCR oligomers provides a mechanism for B cell affinity discrimination. Journal of Theoretical Biology, 2012, 307, 174-182.	1.7	10
84	A single-nucleotide polymorphism in a Plasmodium berghei ApiAP2 transcription factor alters the development of host immunity. Science Advances, 2020, 6, eaaw6957.	10.3	10
85	Understanding the Initiation of B Cell Signaling Through Live Cell Imaging. Methods in Enzymology, 2012, 506, 265-290.	1.0	9
86	Testing the impact of a single nucleotide polymorphism in a Plasmodium berghei ApiAP2 transcription factor on experimental cerebral malaria in mice. Scientific Reports, 2020, 10, 13630.	3.3	9
87	The tangled web of autoreactive B cells in malaria immunity and autoimmune disease. Trends in Parasitology, 2022, 38, 379-389.	3.3	8
88	The induction of B cells refractory to antibody-specific immunoregulation. European Journal of Immunology, 1982, 12, 449-452.	2.9	5
89	Class II Antigen Processing Compartments and the Function of HLA-DM. International Reviews of Immunology, 1996, 13, 209-219.	3.3	5
90	Women in immunology: 2020 and beyond. Nature Immunology, 2020, 21, 254-258.	14.5	5

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91	Encoding Immunological Memory in the Initiation of B-Cell Receptor Signaling. Cold Spring Harbor Symposia on Quantitative Biology, 2013, 78, 231-237.	1.1	4
92	Ups and downs in the search for a Herpes simplex virus vaccine. ELife, 2015, 4, .	6.0	4
93	Antibody-specific immunoregulation is restricted by the major histocompatibility gene complex. European Journal of Immunology, 1982, 12, 972-976.	2.9	1
94	Spending the Best but Banking the Rest. Cell, 2020, 183, 1149-1150.	28.9	1