Klaus Ley

List of Publications by Year in Descending Order

205 papers	22,917 citations	68 h-index	150 g-index
244 ext. papers	27,235 ext. citations	10.9 avg, IF	7.41 L-index

#	Paper	IF	Citations
205	Olfactory receptor 2 in vascular macrophages drives atherosclerosis by NLRP3-dependent IL-1 production.. *Science*, **2022**, 375, 214-221	33.3	5
204	Bone Marrow Transplantation Rescues Monocyte Recruitment Defect and Improves Cystic Fibrosis in Mice.. *Journal of Immunology*, **2022**,	5.3	2
203	Flow Cytometry and Mass Cytometry for Measuring the Immune Cell Infiltrate in Atherosclerotic Arteries.. *Methods in Molecular Biology*, **2022**, 2419, 779-800	1.4	0
202	Single-Cell Antibody Sequencing in Atherosclerosis Research.. *Methods in Molecular Biology*, **2022**, 2419, 765-778	1.4	0
201	Molecular Mechanisms of Leukocyte β2 Integrin Activation.. *Blood*, **2022**,	2.2	1
200	A humanized β2 integrin knockin mouse reveals localized intra- and extravascular neutrophil integrin activation in vivo. *Cell Reports*, **2022**, 39, 110876	10.6	2
199	Autoimmune Regulator (AIRE) Deficiency Does Not Affect Atherosclerosis and CD4 T Cell Immune Tolerance to Apolipoprotein B.. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 812769	5.4	0
198	Thymus-Derived CD4CD8 Cells Reside in Mediastinal Adipose Tissue and the Aortic Arch. *Journal of Immunology*, **2021**, 207, 2720-2732	5.3	
197	Elongated neutrophil-derived structures are blood-borne microparticles formed by rolling neutrophils during sepsis. *Journal of Experimental Medicine*, **2021**, 218,	16.6	12
196	Normalization of cholesterol metabolism in spinal microglia alleviates neuropathic pain. *Journal of Experimental Medicine*, **2021**, 218,	16.6	8
195	Biomechanics of Neutrophil Tethers. *Life*, **2021**, 11,	3	1
194	Data-Driven Kidney Transplant Phenotyping as a Histology-Independent Framework for Biomarker Discovery. *Journal of the American Society of Nephrology: JASN*, **2021**, 32, 1933-1945	12.7	1
193	CD45 pre-exclusion from the tips of T cell microvilli prior to antigen recognition. *Nature Communications*, **2021**, 12, 3872	17.4	8
192	Biocompatibility studies of macroscopic fibers made from carbon nanotubes: Implications for carbon nanotube macrostructures in biomedical applications. *Carbon*, **2021**, 173, 462-476	10.4	13
191	Kindlin-3 recruitment to the plasma membrane precedes high-affinity β2-integrin and neutrophil arrest from rolling. *Blood*, **2021**, 137, 29-38	2.2	17
190	Classical monocyte transcriptomes reveal significant anti-inflammatory statin effect in women with chronic HIV. *Cardiovascular Research*, **2021**, 117, 1166-1177	9.9	4
189	A CD22-Shp1 phosphatase axis controls integrin display and B cell function in mucosal immunity. *Nature Immunology*, **2021**, 22, 381-390	19.1	6

188	Fortified Tregs to fight atherosclerosis. *Cardiovascular Research*, **2021**, 117, 1987-1988	9.9	1
187	How the immune system shapes atherosclerosis: roles of innate and adaptive immunity. *Nature Reviews Immunology*, **2021**,	36.5	30
186	Partial Inhibition of the 6-Phosphofructo-2-Kinase/Fructose-2,6-Bisphosphatase-3 (PFKFB3) Enzyme in Myeloid Cells Does Not Affect Atherosclerosis. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 695684	5.7	0
185	Heterogeneity of immune cells in human atherosclerosis revealed by scRNA-Seq. *Cardiovascular Research*, **2021**, 117, 2537-2543	9.9	6
184	Endothelial Heparan Sulfate Mediates Hepatic Neutrophil Trafficking and Injury during Staphylococcus aureus Sepsis. *MBio*, **2021**, 12, e0118121	7.8	0
183	Myeloid cell-specific Irf5 deficiency stabilizes atherosclerotic plaques in Apoe mice. *Molecular Metabolism*, **2021**, 53, 101250	8.8	3
182	Frontline Science: Kindlin-3 is essential for patrolling and phagocytosis functions of nonclassical monocytes during metastatic cancer surveillance. *Journal of Leukocyte Biology*, **2020**, 107, 883-892	6.5	11
181	T cell subsets and functions in atherosclerosis. *Nature Reviews Cardiology*, **2020**, 17, 387-401	14.8	138
180	Imaging of the immune system - towards a subcellular and molecular understanding. *Journal of Cell Science*, **2020**, 133,	5.3	7
179	CITE-Seq Hits Vascular Medicine. *Clinical Chemistry*, **2020**, 66, 751-753	5.5	2
178	Opportunities for an atherosclerosis vaccine: From mice to humans. *Vaccine*, **2020**, 38, 4495-4506	4.1	10
177	Single Cell RNA Sequencing in Atherosclerosis Research. *Circulation Research*, **2020**, 126, 1112-1126	15.7	39
176	Leaking chemokines confuse neutrophils. *Journal of Clinical Investigation*, **2020**, 130, 2177-2179	15.9	4
175	Spiking Pandemic Potential: Structural and Immunological Aspects of SARS-CoV-2. *Trends in Microbiology*, **2020**, 28, 605-618	12.4	21
174	Role of the adaptive immune system in atherosclerosis. *Biochemical Society Transactions*, **2020**, 48, 2273-2281	3.2	9
173	Frontline Science: A flexible kink in the transmembrane domain impairs β2 integrin extension and cell arrest from rolling. *Journal of Leukocyte Biology*, **2020**, 107, 175-183	6.5	9
172	Altered Gut Microbiota and Host Metabolite Profiles in Women With Human Immunodeficiency Virus. *Clinical Infectious Diseases*, **2020**, 71, 2345-2353	11.6	9
171	Meta-Analysis of Leukocyte Diversity in Atherosclerotic Mouse Aortas. *Circulation Research*, **2020**, 127, 402-426	15.7	91

170	Epsin-mediated degradation of IP3R1 fuels atherosclerosis. *Nature Communications*, **2020**, 11, 3984	17.4	6
169	Pathogenic Autoimmunity in Atherosclerosis Evolves From Initially Protective Apolipoprotein B-Reactive CD4 T-Regulatory Cells. *Circulation*, **2020**, 142, 1279-1293	16.7	42
168	Super-STORM: Molecular Modeling to Achieve Single-molecule Localization with STORM Microscopy. *STAR Protocols*, **2020**, 1, 100012	1.4	1
167	Regulatory T Cell Stability and Plasticity in Atherosclerosis. *Cells*, **2020**, 9,	7.9	15
166	Neutrophil Recruitment: From Model Systems to Tissue-Specific Patterns. *Trends in Immunology*, **2019**, 40, 613-634	14.4	45
165	Macrophage Polarization: Different Gene Signatures in M1(LPS+) vs. Classically and M2(LPS-) vs. Alternatively Activated Macrophages. *Frontiers in Immunology*, **2019**, 10, 1084	8.4	477
164	Rap1 binding and a lipid-dependent helix in talin F1 domain promote integrin activation in tandem. *Journal of Cell Biology*, **2019**, 218, 1799-1809	7.3	29
163	Vaccination against atherosclerosis. *Current Opinion in Immunology*, **2019**, 59, 15-24	7.8	21
162	Migratory and Dancing Macrophage Subsets in Atherosclerotic Lesions. *Circulation Research*, **2019**, 125, 1038-1051	15.7	26
161	Circulating T cell-monocyte complexes are markers of immune perturbations. *ELife*, **2019**, 8,	8.9	25
160	Kindlin-3 recruitment to the plasma membrane in neutrophils precedes high affinity integrin activation. *FASEB Journal*, **2019**, 33, 523.7	0.9	
159	The trafficking protein JFC1 regulates Rac1-GTP localization at the uropod controlling neutrophil chemotaxis and in vivo migration. *Journal of Leukocyte Biology*, **2019**, 105, 1209-1224	6.5	13
158	CX3CL1-Fc treatment prevents atherosclerosis in Ldlr KO mice. *Molecular Metabolism*, **2019**, 20, 89-101	8.8	13
157	Myeloid-Specific Deletion of Epsins 1 and 2 Reduces Atherosclerosis by Preventing LRP-1 Downregulation. *Circulation Research*, **2019**, 124, e6-e19	15.7	19
156	High-Affinity Bent β2 Integrin Molecules in Arresting Neutrophils Face Each Other through Binding to ICAMs In cis. *Cell Reports*, **2019**, 26, 119-130.e5	10.6	28
155	Immunity and Inflammation in Atherosclerosis. *Circulation Research*, **2019**, 124, 315-327	15.7	427
154	Platelet Serotonin Aggravates Myocardial Ischemia/Reperfusion Injury via Neutrophil Degranulation. *Circulation*, **2019**, 139, 918-931	16.7	58
153	Loss of CXCR4 on non-classical monocytes in participants of the Women's Interagency HIV Study (WIHS) with subclinical atherosclerosis. *Cardiovascular Research*, **2019**, 115, 1029-1040	9.9	5

152	Leukocyte Adhesion **2018**, 171-203		0
151	A ligand-specific blockade of the integrin Mac-1 selectively targets pathologic inflammation while maintaining protective host-defense. *Nature Communications*, **2018**, 9, 525	17.4	57
150	Inflammatory Pathways Regulated by Tumor Necrosis Receptor-Associated Factor 1 Protect From Metabolic Consequences in Diet-Induced Obesity. *Circulation Research*, **2018**, 122, 693-700	15.7	12
149	Single-Cell RNA-Seq Reveals the Transcriptional Landscape and Heterogeneity of Aortic Macrophages in Murine Atherosclerosis. *Circulation Research*, **2018**, 122, 1661-1674	15.7	316
148	Atlas of the Immune Cell Repertoire in Mouse Atherosclerosis Defined by Single-Cell RNA-Sequencing and Mass Cytometry. *Circulation Research*, **2018**, 122, 1675-1688	15.7	212
147	Regulatory CD4 T Cells Recognize Major Histocompatibility Complex Class II Molecule-Restricted Peptide Epitopes of Apolipoprotein B. *Circulation*, **2018**, 138, 1130-1143	16.7	71
146	Transmission of integrin transmembrane domain topology enables gut lymphoid tissue development. *Journal of Cell Biology*, **2018**, 217, 1453-1465	7.3	13
145	A clinically applicable adjuvant for an atherosclerosis vaccine in mice. *European Journal of Immunology*, **2018**, 48, 1580-1587	6.1	12
144	Oxidized phospholipids are proinflammatory and proatherogenic in hypercholesterolaemic mice. *Nature*, **2018**, 558, 301-306	50.4	227
143	Rolling neutrophils form tethers and slings under physiologic conditions in vivo. *Journal of Leukocyte Biology*, **2018**, 103, 67-70	6.5	15
142	Neutrophils form elongated shear-derived particles (SDP) via shedding tethers and slings. *FASEB Journal*, **2018**, 32, 574.6	0.9	
141	Atherosclerosis in the single-cell era. *Current Opinion in Lipidology*, **2018**, 29, 389-396	4.4	29
140	A Single-Step Chemoenzymatic Reaction for the Construction of Antibody-Cell Conjugates. *ACS Central Science*, **2018**, 4, 1633-1641	16.8	25
139	Neutrophils: New insights and open questions. *Science Immunology*, **2018**, 3,	28	180
138	Atherosclerosis. *Circulation Research*, **2018**, 123, 1118-1120	15.7	136
137	Deconvolution of pro- and antiviral genomic responses in Zika virus-infected and bystander macrophages. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E9172-E9181	11.5	19
136	P-selectin glycoprotein ligand-1 in T cells. *Current Opinion in Hematology*, **2017**, 24, 265-273	3.3	20
135	Atheroprotective vaccination with MHC-II-restricted ApoB peptides induces peritoneal IL-10-producing CD4 T cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H781-H790	5.2	30

134	ATVB Distinguished Scientist Award: How Costimulatory and Coinhibitory Pathways Shape Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 764-777	9.4	19
133	Endothelial Protective Monocyte Patrolling in Large Arteries Intensified by Western Diet and Atherosclerosis. *Circulation Research*, **2017**, 120, 1789-1799	15.7	66
132	M1 Means Kill; M2 Means Heal. *Journal of Immunology*, **2017**, 199, 2191-2193	5.3	112
131	Developing Neutrophils Must Eat Themselves!. *Immunity*, **2017**, 47, 393-395	32.3	2
130	Scavenger Receptor CD36 Directs Nonclassical Monocyte Patrolling Along the Endothelium During Early Atherogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 2043-2052	9.4	47
129	Natural variation of macrophage activation as disease-relevant phenotype predictive of inflammation and cancer survival. *Nature Communications*, **2017**, 8, 16041	17.4	58
128	IL-27R signaling controls myeloid cells accumulation and antigen-presentation in atherosclerosis. *Scientific Reports*, **2017**, 7, 2255	4.9	13
127	Differential DARC/ACKR1 expression distinguishes venular from non-venular endothelial cells in murine tissues. *BMC Biology*, **2017**, 15, 45	7.3	60
126	Effector and Regulatory T Cells Roll at High Shear Stress by Inducible Tether and Sling Formation. *Cell Reports*, **2017**, 21, 3885-3899	10.6	26
125	Patrolling Mechanics of Non-Classical Monocytes in Vascular Inflammation. *Frontiers in Cardiovascular Medicine*, **2017**, 4, 80	5.4	39
124	Selecting the Optimal Sequence for Deformable Registration of Microscopy Image Sequences Using Two-Stage MST-based Clustering Algorithm. *Lecture Notes in Computer Science*, **2017**, 353-361	0.9	1
123	Neutrophil recruitment limited by high-affinity bent β2 integrin binding ligand in cis. *Nature Communications*, **2016**, 7, 12658	17.4	58
122	Live cell imaging to understand monocyte, macrophage, and dendritic cell function in atherosclerosis. *Journal of Experimental Medicine*, **2016**, 213, 1117-31	16.6	33
121	Integrin-based therapeutics: biological basis, clinical use and new drugs. *Nature Reviews Drug Discovery*, **2016**, 15, 173-83	64.1	239
120	MISTICA: Minimum Spanning Tree-Based Coarse Image Alignment for Microscopy Image Sequences. *IEEE Journal of Biomedical and Health Informatics*, **2016**, 20, 1575-1584	7.2	4
119	Gβ2 and Gβ3 Differentially Regulate Arrest from Flow and Chemotaxis in Mouse Neutrophils. *Journal of Immunology*, **2016**, 196, 3828-33	5.3	10
118	2015 Russell Ross Memorial Lecture in Vascular Biology: Protective Autoimmunity in Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 429-38	9.4	15
117	Live cell imaging to understand monocyte, macrophage, and dendritic cell function in atherosclerosis. *Journal of Cell Biology*, **2016**, 213, 2136OIA120	7.3	

116	How Mouse Macrophages Sense What Is Going On. *Frontiers in Immunology*, **2016**, 7, 204	8.4	52
115	Leukocyte Adhesion Deficiency IV. Monocyte Integrin Activation Deficiency in Cystic Fibrosis. *American Journal of Respiratory and Critical Care Medicine*, **2016**, 193, 1075-7	10.2	9
114	Microfluidics-based side view flow chamber reveals tether-to-sling transition in rolling neutrophils. *Scientific Reports*, **2016**, 6, 28870	4.9	18
113	Protection from septic peritonitis by rapid neutrophil recruitment through omental high endothelial venules. *Nature Communications*, **2016**, 7, 10828	17.4	45
112	CCR5+T-bet+FoxP3+ Effector CD4 T Cells Drive Atherosclerosis. *Circulation Research*, **2016**, 118, 1540-52	15.7	68
111	Gnb isoforms control a signaling pathway comprising Rac1, Plc2, and Plc3 leading to LFA-1 activation and neutrophil arrest in vivo. *Blood*, **2016**, 127, 314-24	2.2	25
110	HGF Guides T Cells into the Heart. *Immunity*, **2015**, 42, 979-81	32.3	4
109	Beyond vascular inflammation--recent advances in understanding atherosclerosis. *Cellular and Molecular Life Sciences*, **2015**, 72, 3853-69	10.3	46
108	Macrophages at the fork in the road to health or disease. *Frontiers in Immunology*, **2015**, 6, 59	8.4	50
107	SAMP1/YitFc mice develop ileitis via loss of CCL21 and defects in dendritic cell migration. *Gastroenterology*, **2015**, 148, 783-793.e5	13.3	12
106	Intravital live cell triggered imaging system reveals monocyte patrolling and macrophage migration in atherosclerotic arteries. *Journal of Biomedical Optics*, **2015**, 20, 26005	3.5	32
105	Sequential Immune Responses: The Weapons of Immunity. *Journal of Innate Immunity*, **2015**, 7, 443-9	6.9	23
104	Lymphocyte migration into atherosclerotic plaque. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 40-9	9.4	52
103	Monocyte trafficking across the vessel wall. *Cardiovascular Research*, **2015**, 107, 321-30	9.9	244
102	Role of the endothelial surface layer in neutrophil recruitment. *Journal of Leukocyte Biology*, **2015**, 98, 503-15	6.5	84
101	Vaccination to modulate atherosclerosis. *Autoimmunity*, **2015**, 48, 152-60	3	45
100	Macrophage Polarization: Decisions That Affect Health. *Journal of Clinical & Cellular Immunology*, **2015**, 6,	2.7	14
99	Leukocyte arrest: Biomechanics and molecular mechanisms of 2 integrin activation. *Biorheology*, **2015**, 52, 353-77	1.7	29

98	M1 and M2 macrophages: the chicken and the egg of immunity. *Journal of Innate Immunity*, **2014**, 6, 716-26	4.9	242
97	Arrest chemokines. *Frontiers in Immunology*, **2014**, 5, 150	8.4	4
96	Registering sequences of in vivo microscopy images for cell tracking using dynamic programming and minimum spanning trees **2014**,		3
95	The second touch hypothesis: T cell activation, homing and polarization. *F1000Research*, **2014**, 3, 37	3.6	22
94	The second touch hypothesis: T cell activation, homing and polarization. *F1000Research*, **2014**, 3, 37	3.6	43
93	Neutrophil rolling at high shear: flattening, catch bond behavior, tethers and slings. *Molecular Immunology*, **2013**, 55, 59-69	4.3	52
92	Quantitative dynamic footprinting microscopy. *Immunology and Cell Biology*, **2013**, 91, 311-20	5	3
91	The PSGL-1-L-selectin signaling complex regulates neutrophil adhesion under flow. *Journal of Experimental Medicine*, **2013**, 210, 2171-80	16.6	71
90	Atheroprotective Vaccination with MHC-II Restricted Peptides from ApoB-100. *Frontiers in Immunology*, **2013**, 4, 493	8.4	62
89	T cells in atherosclerosis. *International Immunology*, **2013**, 25, 615-22	4.9	110
88	Leukocytes talking to VE-cadherin. *Blood*, **2013**, 122, 2300-1	2.2	5
87	Increased cholesterol content in gammadelta (γδ) T lymphocytes differentially regulates their activation. *PLoS ONE*, **2013**, 8, e63746	3.7	27
86	Avidity regulation of the leukocyte integrin LFA-1. *FASEB Journal*, **2013**, 27, 138.2	0.9	
85	Distinct roles for talin-1 and kindlin-3 in LFA-1 extension and affinity regulation. *Blood*, **2012**, 119, 4275-82	9.2	172
84	Interleukin-17 signaling in inflammatory, Kupffer cells, and hepatic stellate cells exacerbates liver fibrosis in mice. *Gastroenterology*, **2012**, 143, 765-776.e3	13.3	400
83	Dynamic T cell-APC interactions sustain chronic inflammation in atherosclerosis. *Journal of Clinical Investigation*, **2012**, 122, 3114-26	15.9	167
82	Regulated accumulation of desmosterol integrates macrophage lipid metabolism and inflammatory responses. *Cell*, **2012**, 151, 138-52	56.2	373
81	Slings enable neutrophil rolling at high shear. *Nature*, **2012**, 488, 399-403	50.4	130

80	NR4A1 (Nur77) deletion polarizes macrophages toward an inflammatory phenotype and increases atherosclerosis. *Circulation Research*, **2012**, 110, 416-27	15.7	287
79	Protein kinase C- s required for murine neutrophil recruitment and adhesion strengthening under flow. *Journal of Immunology*, **2012**, 188, 4043-51	5.3	23
78	B-cell aortic homing and atheroprotection depend on Id3. *Circulation Research*, **2012**, 110, e1-12	15.7	82
77	Neutrophil arrest by LFA-1 activation. *Frontiers in Immunology*, **2012**, 3, 157	8.4	91
76	Alteration of heparan sulfate 2-O-sulfation in endothelial cells enhances neutrophil infiltration in mice. *FASEB Journal*, **2012**, 26, 609.1	0.9	
75	Cell protrusions and tethers: a unified approach. *Biophysical Journal*, **2011**, 100, 1697-707	2.9	17
74	How dendritic cells shape atherosclerosis. *Trends in Immunology*, **2011**, 32, 540-7	14.4	69
73	Biomechanics of leukocyte rolling. *Biorheology*, **2011**, 48, 1-35	1.7	88
72	CD63 positions CD62P for rolling. *Blood*, **2011**, 118, 4012-3	2.2	1
71	Live cell imaging of paxillin in rolling neutrophils by dual-color quantitative dynamic footprinting. *Microcirculation*, **2011**, 18, 361-72	2.9	11
70	Leukocyte ligands for endothelial selectins: specialized glycoconjugates that mediate rolling and signaling under flow. *Blood*, **2011**, 118, 6743-51	2.2	340
69	Rap1a activation by CalDAG-GEFI and p38 MAPK is involved in E-selectin-dependent slow leukocyte rolling. *European Journal of Immunology*, **2011**, 41, 2074-85	6.1	73
68	Flow cytometry analysis of immune cells within murine aortas. *Journal of Visualized Experiments*, **2011**,	1.6	50
67	Monocyte and macrophage dynamics during atherogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 1506-16	9.4	390
66	Quantitative dynamic footprinting microscopy reveals mechanisms of neutrophil rolling. *Nature Methods*, **2010**, 7, 821-4	21.6	59
65	CXC chemokine ligand 4 induces a unique transcriptome in monocyte-derived macrophages. *Journal of Immunology*, **2010**, 184, 4810-8	5.3	194
64	Multi-cell 3D tracking with adaptive acceptance gates **2010**,		2
63	Blockade of interleukin-17A results in reduced atherosclerosis in apolipoprotein E-deficient mice. *Circulation*, **2010**, 121, 1746-55	16.7	317

62	The transmembrane domains of L-selectin and CD44 regulate receptor cell surface positioning and leukocyte adhesion under flow. *Journal of Biological Chemistry*, **2010**, 285, 13490-7	5.4	27
61	Tyrosine kinase Btk regulates E-selectin-mediated integrin activation and neutrophil recruitment by controlling phospholipase C (PLC) gamma2 and PI3Kgamma pathways. *Blood*, **2010**, 115, 3118-27	2.2	124
60	Rolling on E- or P-selectin induces the extended but not high-affinity conformation of LFA-1 in neutrophils. *Blood*, **2010**, 116, 617-24	2.2	133
59	Development of monocytes, macrophages, and dendritic cells. *Science*, **2010**, 327, 656-61	33.3	2088
58	Stressed microvilli and long tethers in rolling, tight adhesion zones and aft trunks in arresting neutrophils revealed using Total Internal Reflection Fluorescence Microscopy (TIRFM). *FASEB Journal*, **2010**, 24, 590.2	0.9	
57	The plasma microparticle proteome updated. *FASEB Journal*, **2010**, 24, 670.6	0.9	
56	PSGL-1-dependent myeloid leukocyte activation. *Journal of Leukocyte Biology*, **2009**, 86, 1119-24	6.5	61
55	Dynamics of Microvillus Extension and Tether Formation in Rolling Leukocytes. *Cellular and Molecular Bioengineering*, **2009**, 2, 207-217	3.9	21
54	Glycosylation in immune cell trafficking. *Immunological Reviews*, **2009**, 230, 97-113	11.3	216
53	Neutrophil adhesion and activation under flow. *Microcirculation*, **2009**, 16, 31-42	2.9	140
52	Event-tracking model of adhesion identifies load-bearing bonds in rolling leukocytes. *Microcirculation*, **2009**, 16, 115-30	2.9	19
51	Immune and inflammatory mechanisms of atherosclerosis (*). *Annual Review of Immunology*, **2009**, 27, 165-97	34.7	1038
50	Micro-PTV measurement of the fluid shear stress acting on adherent leukocytes in vivo. *Biophysical Journal*, **2009**, 96, 4249-59	2.9	15
49	Microfluidic device functionalized with P-selectin reveals discontinuous rolling of leukocytes in mouse whole blood. *FASEB Journal*, **2009**, 23, 949.4	0.9	
48	The Microcirculation in Inflammation **2008**, 387-448		2
47	Mechanisms and consequences of neutrophil interaction with the endothelium. *American Journal of Pathology*, **2008**, 172, 1-7	5.8	158
46	Dances with leukocytes: how tetraspanin-enriched microdomains assemble to form endothelial adhesive platforms. *Journal of Cell Biology*, **2008**, 183, 375-6	7.3	12
45	Chapter 11. Intravital microscopic investigation of leukocyte interactions with the blood vessel wall. *Methods in Enzymology*, **2008**, 445, 255-79	1.7	12

44	Homeostatic regulation of blood neutrophil counts. *Journal of Immunology*, **2008**, 181, 5183-8	5.3	205
43	Galectin 3-binding protein and clinical outcomes in patients with angiographically significant coronary artery disease. *FASEB Journal*, **2008**, 22, 1152.21	0.9	
42	Immunoreceptor tyrosine-based activation motif (ITAM)-containing adapters DAP12 and FcR required for E-selectin mediated slow rolling. *FASEB Journal*, **2008**, 22, 1071.1	0.9	
41	Proteolytic shedding by ADAM 17 (TACE) functions as a gatekeeper for leukocyte emigration to inflammatory sites. *FASEB Journal*, **2008**, 22, 166.4	0.9	
40	Event tracking model of adhesion identifies load-bearing bonds in leukocyte rolling at low shear. *FASEB Journal*, **2008**, 22, 166.6	0.9	
39	Shear field around adherent leukocytes as measured by Micro-PTV. *Conference Record of the Asilomar Conference on Signals, Systems and Computers*, **2007**,	0.3	1
38	Getting to the site of inflammation: the leukocyte adhesion cascade updated. *Nature Reviews Immunology*, **2007**, 7, 678-89	36.5	2949
37	CXCR6 promotes atherosclerosis by supporting T-cell homing, interferon-gamma production, and macrophage accumulation in the aortic wall. *Circulation*, **2007**, 116, 1801-11	16.7	102
36	Spleen tyrosine kinase Syk is necessary for E-selectin-induced alpha(L)beta(2) integrin-mediated rolling on intercellular adhesion molecule-1. *Immunity*, **2007**, 26, 773-83	32.3	241
35	Galphai2 is required for chemokine-induced neutrophil arrest. *Blood*, **2007**, 110, 3773-9	2.2	74
34	oxLDL induces expression and activity of aldose reductase in human monocyte-derived macrophages. *FASEB Journal*, **2007**, 21, A1411	0.9	
33	Leukocyte phosphoinositide-3 kinase {gamma} is required for chemokine-induced, sustained adhesion under flow in vivo. *Journal of Leukocyte Biology*, **2006**, 80, 1491-9	6.5	71
32	Lymphocyte recruitment into the aortic wall before and during development of atherosclerosis is partially L-selectin dependent. *Journal of Experimental Medicine*, **2006**, 203, 1273-82	16.6	366
31	Critical role of endothelial CXCR2 in LPS-induced neutrophil migration into the lung. *Journal of Clinical Investigation*, **2006**, 116, 695-702	15.9	242
30	Induction of LFA-1-dependent neutrophil rolling on ICAM-1 by engagement of E-selectin. *Microcirculation*, **2006**, 13, 99-109	2.9	65
29	IL-17A-producing neutrophil-regulatory Tn lymphocytes. *Immunologic Research*, **2006**, 34, 229-42	4.3	122
28	Role of chemokines in lymphocyte trafficking to the intestine in chronic murine ileitis. *FASEB Journal*, **2006**, 20, A203	0.9	
27	Oxidative modification of leukocyte adhesion. *Immunity*, **2005**, 22, 5-7	32.3	7

26	Phagocytosis of apoptotic neutrophils regulates granulopoiesis via IL-23 and IL-17. *Immunity*, **2005**, 22, 285-94	32.3	669
25	Preferential migration of effector CD8+ T cells into the interstitium of the normal lung. *Journal of Clinical Investigation*, **2005**, 115, 3473-83	15.9	140
24	Vav GEFs are required for beta2 integrin-dependent functions of neutrophils. *Journal of Cell Biology*, **2004**, 166, 273-82	7.3	187
23	CXCR2- and E-selectin-induced neutrophil arrest during inflammation in vivo. *Journal of Experimental Medicine*, **2004**, 200, 935-9	16.6	119
22	Selectins in T-cell recruitment to non-lymphoid tissues and sites of inflammation. *Nature Reviews Immunology*, **2004**, 4, 325-35	36.5	363
21	Circulating activated platelets exacerbate atherosclerosis in mice deficient in apolipoprotein E. *Nature Medicine*, **2003**, 9, 61-7	50.5	820
20	Near-wall micro-PIV reveals a hydrodynamically relevant endothelial surface layer in venules in vivo. *Biophysical Journal*, **2003**, 85, 637-45	2.9	180
19	Sulfated sugars for rolling lymphocytes. *Journal of Experimental Medicine*, **2003**, 198, 1285-8	16.6	10
18	Local-pooled-error test for identifying differentially expressed genes with a small number of replicated microarrays. *Bioinformatics*, **2003**, 19, 1945-51	7.2	273
17	Deposition of platelet RANTES triggering monocyte recruitment requires P-selectin and is involved in neointima formation after arterial injury. *Circulation*, **2002**, 106, 1523-9	16.7	288
16	RANTES deposition by platelets triggers monocyte arrest on inflamed and atherosclerotic endothelium. *Circulation*, **2001**, 103, 1772-7	16.7	470
15	Platelet, but not endothelial, P-selectin is critical for neutrophil-mediated acute postischemic renal failure. *FASEB Journal*, **2001**, 15, 2337-44	0.9	139
14	L-selectin shedding regulates leukocyte recruitment. *Journal of Experimental Medicine*, **2001**, 193, 863-72	16.6	183
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3	Combined protein and transcript single cell RNA sequencing in human peripheral blood mononuclear cells		2
2	Integrated scRNA-seq analysis identifies conserved transcriptomic features of mononuclear phagocytes in mouse and human atherosclerosis		2
1	PRESTO, a new tool for integrating large-scale -omics data and discovering disease-specific signatures		4