Scott I Simon

List of Publications by Year
in descending order

153 papers	8,300 citations	34016 52 h-index	51492 86 g-index
155 all docs	155 docs citations	155 times ranked	11489 citing authors

#	Article	IF	Citations
1	The integrins. Genome Biology, 2007, 8, 215.	13.9	995
2	Ultrasound radiation force enables targeted deposition of model drug carriers loaded on microbubbles. Journal of Controlled Release, 2006, 111, 128-134.	4.8	253
3	Molecular Mechanics and Dynamics of Leukocyte Recruitment During Inflammation. Annual Review of Biomedical Engineering, 2005, 7, 151-185.	5.7	237
4	Neutrophil Tethering on E-Selectin Activates Î²2 Integrin Binding to ICAM-1 Through a Mitogen-Activated Protein Kinase Signal Transduction Pathway. Journal of Immunology, 2000, 164, 4348-4358.	0.4	218
5	Dynamics of Neutrophil Infiltration during Cutaneous Wound Healing and Infection Using Fluorescence Imaging. Journal of Investigative Dermatology, 2008, 128, 1812-1820.	0.3	211
6	Functional Role of CD11c ⁺ Monocytes in Atherogenesis Associated With Hypercholesterolemia. Circulation, 2009, 119, 2708-2717.	1.6	200
7	Neutrophil-derived IL-1Î² Is Sufficient for Abscess Formation in Immunity against Staphylococcus aureus in Mice. PLoS Pathogens, 2012, 8, e1003047.	2.1	194
8	A Mouse Model of Post-Arthroplasty Staphylococcus aureus Joint Infection to Evaluate In Vivo the Efficacy of Antimicrobial Implant Coatings. PLoS ONE, 2010, 5, e12580.	1.1	181
9	Venous Levels of Shear Support Neutrophil-Platelet Adhesion and Neutrophil Aggregation in Blood via P-Selectin and Î²₂-Integrin. Circulation, 1998, 98, 873-882.	1.6	146
10	Mechanosensing at the Vascular Interface. Annual Review of Biomedical Engineering, 2014, 16, 505-532.	5.7	146
11	CD11c/CD18 Expression Is Upregulated on Blood Monocytes During Hypertriglyceridemia and Enhances Adhesion to Vascular Cell Adhesion Molecule-1. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 160-166.	1.1	139
12	L-Selectin Signaling of Neutrophil Adhesion and Degranulation Involves p38 Mitogen-activated Protein Kinase. Journal of Biological Chemistry, 2000, 275, 15876-15884.	1.6	134
13	Optical and Acoustical Dynamics of Microbubble Contrast Agents inside Neutrophils. Biophysical Journal, 2001, 80, 1547-1556.	0.2	133
14	Enterococcus faecalisBearing Aggregation Substance Is Resistant to Killing by Human Neutrophils despite Phagocytosis and Neutrophil Activation. Infection and Immunity, 1999, 67, 6067-6075.	1.0	132
15	Impaired Integrin-Dependent Function in Wiskott-Aldrich Syndrome Protein-Deficient Murine and Human Neutrophils. Immunity, 2006, 25, 285-295.	6.6	130
16	Triglyceride-Rich Lipoproteins Prime Aortic Endothelium for an Enhanced Inflammatory Response to Tumor Necrosis Factor-Î±. Circulation Research, 2007, 100, 381-390.	2.0	125
17	Sequential binding of CD11a/CD18 and CD11b/CD18 defines neutrophil capture and stable adhesion to intercellular adhesion moleculeâ€“1. Blood, 2000, 95, 911-920.	0.6	123
18	Vascular mimetics based on microfluidics for imaging the leukocyteâ€“endothelial inflammatory response. Lab on A Chip, 2007, 7, 448-456.	3.1	121

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19	Shear-Dependent Capping of L-Selectin and P-Selectin Glycoprotein Ligand 1 by E-Selectin Signals Activation of High-Avidity Î²2-Integrin on Neutrophils. Journal of Immunology, 2004, 172, 7780-7790.	0.4	118
20	Vav1 Is Essential for Mechanotactic Crawling and Migration of Neutrophils out of the Inflamed Microvasculature. Journal of Immunology, 2009, 182, 6870-6878.	0.4	114
21	Dynamic Regulation of LFA-1 Activation and Neutrophil Arrest on Intercellular Adhesion Molecule 1 (ICAM-1) in Shear Flow. Journal of Biological Chemistry, 2002, 277, 20660-20670.	1.6	105
22	Neutrophil survival and c-kit+-progenitor proliferation in Staphylococcus aureusâ€“infected skin wounds promote resolution. Blood, 2011, 117, 3343-3352.	0.6	103
23	Orai1 regulates intracellular calcium, arrest, and shape polarization during neutrophil recruitment in shear flow. Blood, 2010, 115, 657-666.	0.6	99
24	Magnetic Nanoparticle Targeted Hyperthermia of Cutaneous Staphylococcus aureus Infection. Annals of Biomedical Engineering, 2013, 41, 598-609.	1.3	99
25	Calcium signalling and related ion channels in neutrophil recruitment and function. European Journal of Clinical Investigation, 2018, 48, e12964.	1.7	99
26	P-selectin mediates neutrophil adhesion to endothelial cell borders. Journal of Leukocyte Biology, 1999, 65, 299-306.	1.5	98
27	Clonally expanded Î³Î´ T cells protect against Staphylococcus aureus skin reinfection. Journal of Clinical Investigation, 2018, 128, 1026-1042.	3.9	98
28	CD11c/CD18: novel ligands and a role in delayed-type hypersensitivity. Journal of Leukocyte Biology, 2007, 81, 1395-1403.	1.5	95
29	Catecholamine Stress Alters Neutrophil Trafficking and Impairs Wound Healing by Î² 2 -Adrenergic Receptorâ€“Mediated Upregulation of IL-6. Journal of Investigative Dermatology, 2014, 134, 809-817.	0.3	91
30	Streptolysin O Rapidly Impairs Neutrophil Oxidative Burst and Antibacterial Responses to Group A Streptococcus. Frontiers in Immunology, 2015, 6, 581.	2.2	82
31	IRF-1 and miRNA126 Modulate VCAM-1 Expression in Response to a High-Fat Meal. Circulation Research, 2012, 111, 1054-1064.	2.0	81
32	Dynamics of neutrophil extravasation and vascular permeability are uncoupled during aseptic cutaneous wounding. American Journal of Physiology - Cell Physiology, 2009, 296, C848-C856.	2.1	79
33	Chemokines, selectins and intracellular calcium flux: temporal and spatial cues for leukocyte arrest. Frontiers in Immunology, 2012, 3, 188.	2.2	79
34	Calcium Flux in Neutrophils Synchronizes Î²2 Integrin Adhesive and Signaling Events that Guide Inflammatory Recruitment. Annals of Biomedical Engineering, 2008, 36, 632-646.	1.3	78
35	Multifactorial Experimental Design to Optimize the Anti-Inflammatory and Proangiogenic Potential of Mesenchymal Stem Cell Spheroids. Stem Cells, 2017, 35, 1493-1504.	1.4	77
36	Dynamic shifts in LFA-1 affinity regulate neutrophil rolling, arrest, and transmigration on inflamed endothelium. Blood, 2006, 107, 2101-2111.	0.6	75

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37	Clonal VÎ³6 ⁺ VÎ´4 ⁺ T cells promote IL-17â€“mediated immunity against Staphylococcus aureus skin infection. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10917-10926.	3.3	75
38	Spatial Regulation of Inflammation by Human Aortic Endothelial Cells in a Linear Gradient of Shear Stress. Microcirculation, 2008, 15, 311-323.	1.0	74
39	Leukocyte Adhesion Dynamics in Shear Flow. Annals of Biomedical Engineering, 2002, 30, 315-332.	1.3	73
40	Hydrodynamic Shear Rate Regulates Melanoma-Leukocyte Aggregation, Melanoma Adhesion to the Endothelium, and Subsequent Extravasation. Annals of Biomedical Engineering, 2008, 36, 661-671.	1.3	72
41	Foamy Monocytes Form Early and Contribute to Nascent Atherosclerosis in Mice With Hypercholesterolemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1787-1797.	1.1	71
42	Glycopeptide analogues of PSGL-1 inhibit P-selectin in vitro and in vivo. Nature Communications, 2015, 6, 6387.	5.8	69
43	Selectin catch-bonds mechanotransduce integrin activation and neutrophil arrest on inflamed endothelium under shear flow. Blood, 2017, 130, 2101-2110.	0.6	69
44	Inflammatory potential of neutrophils detected in sickle cell disease. American Journal of Hematology, 2004, 76, 126-133.	2.0	66
45	Hydrodynamic Shear Shows Distinct Roles for LFA-1 and Mac-1 in Neutrophil Adhesion to Intercellular Adhesion Molecule-1. Blood, 1998, 92, 1626-1638.	0.6	65
46	Polyurethane Shape-Memory Polymers Demonstrate Functional Biocompatibility In Vitro. Macromolecular Bioscience, 2007, 7, 48-55.	2.1	64
47	Noninvasive In Vivo Imaging to Evaluate Immune Responses and Antimicrobial Therapy against Staphylococcus aureus and USA300 MRSA Skin Infections. Journal of Investigative Dermatology, 2011, 131, 907-915.	0.3	63
48	Interactions of lipopolysaccharide with neutrophils in blood via CD14. Journal of Leukocyte Biology, 1993, 53, 518-524.	1.5	62
49	Migrational Guidance of Neutrophils Is Mechanotransduced via High-Affinity LFA-1 and Calcium Flux. Journal of Immunology, 2011, 187, 472-481.	0.4	61
50	Infection-induced type I interferons activate CD11b on B-1 cells for subsequent lymph node accumulation. Nature Communications, 2015, 6, 8991.	5.8	60
51	E-Selectin Ligands as Mechanosensitive Receptors on Neutrophils in Health and Disease. Annals of Biomedical Engineering, 2012, 40, 849-859.	1.3	58
52	Shear and Time-Dependent Changes in Mac-1, LFA-1, and ICAM-3 Binding Regulate Neutrophil Homotypic Adhesion. Journal of Immunology, 2000, 164, 3798-3805.	0.4	56
53	Staphylococcus aureus recognition by hematopoietic stem and progenitor cells via TLR2/MyD88/PGE2 stimulates granulopoiesis in wounds. Blood, 2013, 122, 1770-1778.	0.6	53
54	Coronary artery endothelial cells and microparticles increase expression of VCAM-1 in myocardial infarction. Thrombosis and Haemostasis, 2015, 113, 605-616.	1.8	52

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55	Leukocyte Function Antigen-1, Kindlin-3, and Calcium Flux Orchestrate Neutrophil Recruitment during Inflammation. Journal of Immunology, 2012, 189, 5954-5964.	0.4	48
56	Hematopoietic Stem and Progenitor Cells as Effectors in Innate Immunity. Bone Marrow Research, 2012, 2012, 1-8.	1.7	48
57	Triglyceride-Rich Lipoprotein Modulates Endothelial Vascular Cell Adhesion Molecule (VCAM)-1 Expression via Differential Regulation of Endoplasmic Reticulum Stress. PLoS ONE, 2013, 8, e78322.	1.1	47
58	Mechanisms of B-Cell Synapse Formation Predicted by Monte Carlo Simulation. Biophysical Journal, 2007, 92, 4196-4208.	0.2	44
59	Endothelial inflammation correlates with subject triglycerides and waist size after a high-fat meal. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H784-H791.	1.5	43
60	Long-Lived, High-Strength States of ICAM-1 Bonds to Î²2 Integrin, I: Lifetimes of Bonds to Recombinant Î±LÎ²2 Under Force. Biophysical Journal, 2010, 98, 1458-1466.	0.2	42
61	Microfluidic System for Facilitated Quantification of Nanoparticle Accumulation to Cells Under Laminar Flow. Annals of Biomedical Engineering, 2013, 41, 89-99.	1.3	42
62	Endocytosis of ÃŸ2 integrins by stimulated human neutrophils analyzed by flow cytometry. Journal of Leukocyte Biology, 1993, 53, 462-469.	1.5	41
63	Leukocyte Function-associated Antigen 1-mediated Adhesion Stability Is Dynamically Regulated through Affinity and Valency during Bond Formation with Intercellular Adhesion Molecule-1. Journal of Biological Chemistry, 2005, 280, 28290-28298.	1.6	41
64	Characterization of equine E-selectin. Immunology, 2001, 103, 498-504.	2.0	40
65	Neutrophil adhesion to E-selectin under shear promotes the redistribution and co-clustering of ADAM17 and its proteolytic substrate L-selectin. Journal of Leukocyte Biology, 2008, 83, 99-105.	1.5	39
66	Functional Characterization of Embryonic Stem Cell-Derived Endothelial Cells. Journal of Vascular Research, 2011, 48, 415-428.	0.6	39
67	The Interaction between Leukocytes and Endothelium in Vivo. Annals of the New York Academy of Sciences, 1987, 516, 348-361.	1.8	38
68	On-chip phenotypic analysis of inflammatory monocytes in atherogenesis and myocardial infarction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13944-13949.	3.3	38
69	Dynamics of Neutrophil Aggregation in Couette Flow Revealed by Videomicroscopy: Effect of Shear Rate on Two-Body Collision Efficiency and Doublet Lifetime. Biophysical Journal, 2001, 81, 2020-2034.	0.2	37
70	Comparative Analysis of Normal versus CLL B-Lymphocytes Reveals Patient-Specific Variability in Signaling Mechanisms Controlling LFA-1 Activation by Chemokines. Cancer Research, 2009, 69, 9281-9290.	0.4	36
71	Atherosusceptible Shear Stress Activates Endoplasmic Reticulum Stress to Promote Endothelial Inflammation. Scientific Reports, 2017, 7, 8196.	1.6	36
72	Î²2-Integrins mediate stable adhesion in collisional interactions between neutrophils and ICAM-1-expressing cells. Journal of Leukocyte Biology, 1998, 64, 622-630.	1.5	35

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73	CagY-Dependent Regulation of Type IV Secretion in Helicobacter pylori Is Associated with Alterations in Integrin Binding. MBio, 2018, 9, .	1.8	35
74	Shear stress modulates VCAM-1 expression in response to TNF-Î± and dietary lipids via interferon regulatory factor-1 in cultured endothelium. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1149-H1157.	1.5	33
75	Gnb isoforms control a signaling pathway comprising Rac1, PlcÎ²2, and PlcÎ²3 leading to LFA-1 activation and neutrophil arrest in vivo. Blood, 2016, 127, 314-324.	0.6	33
76	Kinetics of CD11b/CD18 Up-Regulation During Infection with the Agent of Human Granulocytic Ehrlichiosis in Mice. Laboratory Investigation, 2002, 82, 303-311.	1.7	31
77	Long-Lived, High-Strength States of ICAM-1 Bonds to Î²2 Integrin, II: Lifetimes of LFA-1 Bonds Under Force in Leukocyte Signaling. Biophysical Journal, 2010, 98, 1467-1475.	0.2	30
78	CD11c/CD18 Signals Very Late Antigen-4 Activation To Initiate Foamy Monocyte Recruitment during the Onset of Hypercholesterolemia. Journal of Immunology, 2015, 195, 5380-5392.	0.4	30
79	Host cells subdivide nutrient niches into discrete biogeographical microhabitats for gut microbes. Cell Host and Microbe, 2022, 30, 836-847.e6.	5.1	29
80	A day (or 5) in a neutrophil's life. Blood, 2010, 116, 511-512.	0.6	28
81	Fluid shearâ€induced activation and cleavage of CD18 during pseudopod retraction by human neutrophils. Journal of Cellular Physiology, 2008, 214, 528-536.	2.0	27
82	Topographic requirements and dynamics of signaling via L-selectin on neutrophils. American Journal of Physiology - Cell Physiology, 2003, 284, C705-C717.	2.1	25
83	Transmigration of Neutrophils across Inflamed Endothelium Is Signaled through LFA-1 and Src Family Kinase. Journal of Immunology, 2008, 181, 8660-8669.	0.4	25
84	LEUCOCYTE RECRUITMENT UNDER FLUID SHEAR: MECHANICAL AND MOLECULAR REGULATION WITHIN THE INFLAMMATORY SYNAPSE. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 217-224.	0.9	25
85	Hydrodynamic Shear and Tethering through E-selectin Signals Phosphorylation of p38 MAP Kinase and Adhesion of Human Neutrophils. Annals of Biomedical Engineering, 2002, 30, 987-1001.	1.3	24
86	The anti-inflammatory effects of soluble epoxide hydrolase inhibitors are independent of leukocyte recruitment. Biochemical and Biophysical Research Communications, 2011, 410, 494-500.	1.0	24
87	Neutrophil Mechanosignaling Promotes Integrin Engagement With Endothelial Cells and Motility Within Inflamed Vessels. Frontiers in Immunology, 2018, 9, 2774.	2.2	24
88	Rolling dynamics of a neutrophil with redistributed L-selectin. Mathematical Biosciences, 2005, 194, 71-79.	0.9	22
89	Cytoskeletal interactions regulate inducible L-selectin clustering. American Journal of Physiology - Cell Physiology, 2005, 289, C323-C332.	2.1	21
90	SLICâ€1/sorting nexinâ€„20: A novel sorting nexin that directs subcellular distribution of PSGLâ€1. European Journal of Immunology, 2008, 38, 550-564.	1.6	21

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91	Downregulation of GATA6 in mTOR-inhibited human aortic endothelial cells: effects on TNF-Î±-induced VCAM-1 expression and monocytic cell adhesion. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H408-H420.	1.5	21
92	The Multistep Process of Homotypic Neutrophil Aggregation: A Review of the Molecules and Effects of Hydrodynamics. Cell Adhesion and Communication, 1998, 6, 263-276.	1.7	20
93	Oxylipins in triglyceride-rich lipoproteins of dyslipidemic subjects promote endothelial inflammation following a high fat meal. Scientific Reports, 2019, 9, 8655.	1.6	20
94	Replacing Saturated Fat With Unsaturated Fat in Western Diet Reduces Foamy Monocytes and Atherosclerosis in Male Ldlr ^{â€“/â€“} Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 72-85.	1.1	20
95	Roles of neutrophil Î²2 integrins in kinetics of bacteremia, extravasation, and tick acquisition of Anaplasma phagocytophila in mice. Blood, 2003, 101, 3257-3264.	0.6	19
96	Mechanoregulation of p38 activity enhances endoplasmic reticulum stressâ€•mediated inflammation by arterial endothelium. FASEB Journal, 2019, 33, 12888-12899.	0.2	19
97	Evading the host response: Staphylococcus â€œhidingâ€•in cortical bone canalicular system causes increased bacterial burden. Bone Research, 2020, 8, 43.	5.4	19
98	Fabrication of an inexpensive, implantable cooling device for reversible brain deactivation in animals ranging from rodents to primates. Journal of Neurophysiology, 2012, 107, 3543-3558.	0.9	18
99	The voltage-gated potassium channel KV1.3 regulates neutrophil recruitment during inflammation. Cardiovascular Research, 2022, 118, 1289-1302.	1.8	18
100	Reversible deactivation of higher-order posterior parietal areas. I. Alterations of receptive field characteristics in early stages of neocortical processing. Journal of Neurophysiology, 2014, 112, 2529-2544.	0.9	17
101	Reversible deactivation of higher-order posterior parietal areas. II. Alterations in response properties of neurons in areas 1 and 2. Journal of Neurophysiology, 2014, 112, 2545-2560.	0.9	15
102	Tensile force transmitted through LFA-1 bonds mechanoregulate neutrophil inflammatory response. Journal of Leukocyte Biology, 2020, 108, 1815-1828.	1.5	15
103	Dynamics of Neutrophil Membrane Compliance and Microstructure probed with a Micropipet-based Piconewton Force Transducer. Annals of Biomedical Engineering, 2007, 35, 595-604.	1.3	14
104	Five Simple Rules to Avoid Plagiarism. Annals of Biomedical Engineering, 2013, 41, 1-2.	1.3	13
105	Atrial natriuretic peptide down-regulates neutrophil recruitment on inflamed endothelium by reducing cell deformability and resistance to detachment force. Biorheology, 2016, 52, 447-463.	1.2	13
106	Neutrophil Inflammatory Response Is Downregulated by Uptake of Superparamagnetic Iron Oxide Nanoparticle Therapeutics. Frontiers in Immunology, 2020, 11, 571489.	2.2	13
107	IRF-1 mediates the suppressive effects of mTOR inhibition on arterial endothelium. Journal of Molecular and Cellular Cardiology, 2020, 140, 30-41.	0.9	12
108	Cooperativity Between Selectins and Â2-Integrins Define Neutrophil Capture and Stable Adhesion in Shear Flow. Annals of Biomedical Engineering, 2004, 32, 1179-1192.	1.3	11

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109	Targeting Neutrophil Adhesive Events to Address Vaso-Occlusive Crisis in Sickle Cell Patients. Frontiers in Immunology, 2021, 12, 663886.	2.2	11
110	Induction of homotypic lymphocyte aggregation: evidence for a novel activation state of the Î²1 integrin. Journal of Leukocyte Biology, 1996, 59, 872-882.	1.5	10
111	11,12-Epoxyecosatrienoic acids mitigate endothelial dysfunction associated with estrogen loss and aging: Role of membrane depolarization. Journal of Molecular and Cellular Cardiology, 2016, 94, 180-188.	0.9	9
112	Î±-Toxin Regulates Local Granulocyte Expansion from Hematopoietic Stem and Progenitor Cells in Staphylococcus aureusâ€“Infected Wounds. Journal of Immunology, 2017, 199, 1772-1782.	0.4	9
113	A Mouse Model to Assess Innate Immune Response to Staphylococcus aureus Infection. Journal of Visualized Experiments, 2019, , .	0.2	9
114	Is CCR6 Required for the Development of Psoriasiform Dermatitis in Mice?. Journal of Investigative Dermatology, 2019, 139, 485-488.	0.3	9
115	Selectin-Targeting Peptideâ€“Glycosaminoglycan Conjugates Modulate Neutrophilâ€“Endothelial Interactions. Cellular and Molecular Bioengineering, 2019, 12, 121-130.	1.0	9
116	The role of atrial natriuretic peptide to attenuate inflammation in a mouse skin wound and individually perfused rat mesenteric microvessels. Physiological Reports, 2016, 4, e12968.	0.7	8
117	CCR6+ Î³Î´ T Cells Home to Skin Wounds and Restore Normal Wound Healing in CCR6-Deficient Mice. Journal of Investigative Dermatology, 2019, 139, 2061-2064.e2.	0.3	8
118	An Allosteric Shift in CD11c Affinity Activates a Proatherogenic State in Arrested Intermediate Monocytes. Journal of Immunology, 2020, 205, 2806-2820.	0.4	7
119	Preclinical Models and Methodologies for Monitoring Staphylococcus aureus Infections Using Noninvasive Optical Imaging. Methods in Molecular Biology, 2020, 2069, 197-228.	0.4	6
120	Neutrophils in hot pursuit of MRSA in the lymph nodes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2272-2274.	3.3	5
121	Differential Regulation of Neutrophil CD18 Integrin Function by Di- and Tri-Valent Cations: Manganese vs. Gadolinium. Annals of Biomedical Engineering, 2008, 36, 647-660.	1.3	4
122	Youâ€™ve got to be kindlin!. Blood, 2015, 125, 1855-1856.	0.6	4
123	Detection of Bidirectional Signaling During Integrin Activation and Neutrophil Adhesion. Methods in Molecular Biology, 2014, 1124, 235-248.	0.4	4
124	Effects of GMI-1070, a Pan-Selectin Inhibitor, on Leukocyte Adhesion In Sickle Cell Disease: Results From a Phase 1/2 Study. Blood, 2010, 116, 262-262.	0.6	4
125	Editorial: A missing link? Monocyte activation by uremic toxins in cardiorenal syndrome. Journal of Leukocyte Biology, 2013, 93, 821-823.	1.5	3
126	Inhibition of E-Selectin Inflammatory Function by the Glycomimetic GMI-1070. Blood, 2011, 118, 851-851.	0.6	3

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127	Mightier than the sickle cell. Blood, 2010, 116, 1633-1633.	0.6	2
128	On-Chip Endothelial Inflammatory Phenotyping. Journal of Visualized Experiments, 2012, , e4169.	0.2	2
129	Optical and Fluorescence Detection of Neutrophil Integrin Activation. Methods in Molecular Biology, 2007, 412, 203-210.	0.4	1
130	VASCULAR MIMETIC MICROFLUIDIC SYSTEMS FOR THE STUDY OF ENDOTHELIAL ACTIVATION AND LEUKOCYTE RECRUITMENT IN MODELS OF ATHEROGENESIS. , 2010, , 313-329.		1
131	Î²2â€integrin affinity and valence in binding ICAMâ€1 regulates contact mediated emigration of PMN in shear flow.. FASEB Journal, 2007, 21, A1226.	0.2	1
132	Rivipansel (GMI-1070) Inhibits E-Selectin Recognition of Sialyl LewisX Expressed on CD62L (L-selectin) and Blocks Integrin Activation and Arrest of Human Neutrophils. Blood, 2016, 128, 2509-2509.	0.6	1
133	E-selectin prefers fatty-sweet receptors on rolling neutrophils. Blood, 2008, 112, 3537-3537.	0.6	0
134	Preface to Special Issue: â€œGlycomechanics: Sugar Coating Blood Cellâ€“Endothelial Interactions in Shear Flowâ€. Annals of Biomedical Engineering, 2012, 40, 764-765.	1.3	0
135	Clocking Leukocytes Reveal Dynamics of Integrin Braking. Biophysical Journal, 2013, 105, 1091-1092.	0.2	0
136	Gimme a brake: HPK1 regulates LFA-1 and neutrophil traction. Blood, 2013, 121, 4017-4018.	0.6	0
137	Atrial natriuretic peptide down-regulates neutrophil recruitment on inflamed endothelium by reducing cell deformability and resistance to detachment force. Biorheology, 2016, 53, 109-109.	1.2	0
138	Fond Memories of our Mentor J. David Hellums, Annals of Biomedical Engineering. Annals of Biomedical Engineering, 2016, 44, 3157-3157.	1.3	0
139	Mechanotransduction through High-Affinity LFA-1 is a Minimum Requirement to Induce Kindlin-3/RACK1/Oral1 to Mediate Intracellular Calcium Flux and Outside-In Signaling. Biophysical Journal, 2018, 114, 465a.	0.2	0
140	Inflammatory Cells of the Lung: Neutrophils. , 2018, , 115-129.		0
141	Kinky integrins reveal a new wrinkle in neutrophil activation. Journal of Leukocyte Biology, 2020, 107, 167-169.	1.5	0
142	The 2020 Young Innovators of Cellular and Molecular Bioengineering. Cellular and Molecular Bioengineering, 2020, 13, 391-392.	1.0	0
143	LFAâ€1 bound to ICAMâ€1 homodimer regulates adhesion lifetime and outsideâ€in signaling. FASEB Journal, 2006, 20, A116.	0.2	0
144	Microkinetics of leukocyte recruitment imaged in vascular mimetics. FASEB Journal, 2006, 20, A527.	0.2	0

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145	Altered conformational activity and cleavage of CD18 integrins on the human neutrophil surface exposed to fluid shear stress. FASEB Journal, 2008, 22, 1218.4.	0.2	0
146	Dimerization of LFAâ€1/ICAMâ€1 bond provides a spatioâ€temporal cue in PMN recruitment. FASEB Journal, 2009, 23, 639.2.	0.2	0
147	Monocyte integrin CD11c/CD18 is a functional biomarker for risk of cardiovascular disease. FASEB Journal, 2009, 23, 593.7.	0.2	0
148	Outsideâ€in signaling via LFAâ€1 in acute inflammation. FASEB Journal, 2009, 23, 762.17.	0.2	0
149	Monocyte CD11c/CD18 expression is upregulated postprandially and mediates firm arrest on VCAMâ€1. FASEB Journal, 2009, 23, 640.5.	0.2	0
150	Effects of Selectin Antagonist GMI-1070 on the Activation State of Leukocytes In Sickle Cell Patients Not In Crisis. Blood, 2010, 116, 2672-2672.	0.6	0
151	Hematopoietic Stem and Progenitor Cells Locally Produce Neutrophils Necessary To Resolve S. Aureus-Infected Wounds. Blood, 2013, 122, 4710-4710.	0.6	0
152	Abstract 413: CD11c/CD18 Affinity Modulates Monocyte Inflammatory in Primary and Recurrent Myocardial Infarction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	1.1	0
153	Abstract 598: Monounsaturated Fat Reduces Foamy Monocyte Formation and Atherosclerosis Development in Ldlr ^{-/-} Mice Compared to Western High Saturated Fat Diet. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	1.1	0