

# Scott I Simon

## List of Publications by Year in descending order

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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 voltage-gated potassium channel KV1.3 regulates neutrophil recruitment during inflammation. <i>Cardiovascular Research</i> , 2022, 118, 1289-1302.	1.8	18
2	Host cells subdivide nutrient niches into discrete biogeographical microhabitats for gut microbes. <i>Cell Host and Microbe</i> , 2022, 30, 836-847.e6.	5.1	29
3	Targeting Neutrophil Adhesive Events to Address Vaso-Occlusive Crisis in Sickle Cell Patients. <i>Frontiers in Immunology</i> , 2021, 12, 663886.	2.2	11
4	Replacing Saturated Fat With Unsaturated Fat in Western Diet Reduces Foamy Monocytes and Atherosclerosis in Male <i>Ldlr</i> <sup>-/-</sup> Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 72-85.	1.1	20
5	Kinky integrins reveal a new wrinkle in neutrophil activation. <i>Journal of Leukocyte Biology</i> , 2020, 107, 167-169.	1.5	0
6	The 2020 Young Innovators of Cellular and Molecular Bioengineering. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 391-392.	1.0	0
7	An Allosteric Shift in CD11c Affinity Activates a Proatherogenic State in Arrested Intermediate Monocytes. <i>Journal of Immunology</i> , 2020, 205, 2806-2820.	0.4	7
8	Evading the host response: <i>Staphylococcus aureus</i> in cortical bone canalicular system causes increased bacterial burden. <i>Bone Research</i> , 2020, 8, 43.	5.4	19
9	Tensile force transmitted through LFA-1 bonds mechanoregulate neutrophil inflammatory response. <i>Journal of Leukocyte Biology</i> , 2020, 108, 1815-1828.	1.5	15
10	IRF-1 mediates the suppressive effects of mTOR inhibition on arterial endothelium. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 140, 30-41.	0.9	12
11	Preclinical Models and Methodologies for Monitoring <i>Staphylococcus aureus</i> Infections Using Noninvasive Optical Imaging. <i>Methods in Molecular Biology</i> , 2020, 2069, 197-228.	0.4	6
12	Neutrophil Inflammatory Response Is Downregulated by Uptake of Superparamagnetic Iron Oxide Nanoparticle Therapeutics. <i>Frontiers in Immunology</i> , 2020, 11, 571489.	2.2	13
13	Mechanoregulation of p38 activity enhances endoplasmic reticulum stress-mediated inflammation by arterial endothelium. <i>FASEB Journal</i> , 2019, 33, 12888-12899.	0.2	19
14	Oxylipins in triglyceride-rich lipoproteins of dyslipidemic subjects promote endothelial inflammation following a high fat meal. <i>Scientific Reports</i> , 2019, 9, 8655.	1.6	20
15	Clonal V $\beta$ 6 <sup>+</sup> V $\gamma$ 4 <sup>+</sup> T cells promote IL-17-mediated immunity against <i>Staphylococcus aureus</i> skin infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10917-10926.	3.3	75
16	CCR6+ $\gamma\delta$ T Cells Home to Skin Wounds and Restore Normal Wound Healing in CCR6-Deficient Mice. <i>Journal of Investigative Dermatology</i> , 2019, 139, 2061-2064.e2.	0.3	8
17	A Mouse Model to Assess Innate Immune Response to <i>Staphylococcus aureus</i> Infection. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	9
18	Is CCR6 Required for the Development of Psoriasiform Dermatitis in Mice?. <i>Journal of Investigative Dermatology</i> , 2019, 139, 485-488.	0.3	9

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19	Downregulation of GATA6 in mTOR-inhibited human aortic endothelial cells: effects on TNF- $\alpha$ -induced VCAM-1 expression and monocytic cell adhesion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H408-H420.	1.5	21
20	Selectin-Targeting Peptide- $\alpha$ -Glycosaminoglycan Conjugates Modulate Neutrophil- $\alpha$ -Endothelial Interactions. <i>Cellular and Molecular Bioengineering</i> , 2019, 12, 121-130.	1.0	9
21	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. <i>Biophysical Journal</i> , 2018, 114, 465a.	0.2	0
22	Neutrophils in hot pursuit of MRSA in the lymph nodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2272-2274.	3.3	5
23	Neutrophil Mechanosignaling Promotes Integrin Engagement With Endothelial Cells and Motility Within Inflamed Vessels. <i>Frontiers in Immunology</i> , 2018, 9, 2774.	2.2	24
24	Inflammatory Cells of the Lung: Neutrophils. , 2018, , 115-129.		0
25	CagY-Dependent Regulation of Type IV Secretion in <i>Helicobacter pylori</i> Is Associated with Alterations in Integrin Binding. <i>MBio</i> , 2018, 9, .	1.8	35
26	Calcium signalling and related ion channels in neutrophil recruitment and function. <i>European Journal of Clinical Investigation</i> , 2018, 48, e12964.	1.7	99
27	Clonally expanded $\gamma\delta$ T cells protect against <i>Staphylococcus aureus</i> skin reinfection. <i>Journal of Clinical Investigation</i> , 2018, 128, 1026-1042.	3.9	98
28	Abstract 413: CD11c/CD18 Affinity Modulates Monocyte Inflammatory in Primary and Recurrent Myocardial Infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, .	1.1	0
29	Abstract 598: Monounsaturated Fat Reduces Foamy Monocyte Formation and Atherosclerosis Development in Ldlr <sup>-/-</sup> Mice Compared to Western High Saturated Fat Diet. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, .	1.1	0
30	Multifactorial Experimental Design to Optimize the Anti-Inflammatory and Proangiogenic Potential of Mesenchymal Stem Cell Spheroids. <i>Stem Cells</i> , 2017, 35, 1493-1504.	1.4	77
31	Selectin catch-bonds mechanotransduce integrin activation and neutrophil arrest on inflamed endothelium under shear flow. <i>Blood</i> , 2017, 130, 2101-2110.	0.6	69
32	Atherosusceptible Shear Stress Activates Endoplasmic Reticulum Stress to Promote Endothelial Inflammation. <i>Scientific Reports</i> , 2017, 7, 8196.	1.6	36
33	$\alpha$ -Toxin Regulates Local Granulocyte Expansion from Hematopoietic Stem and Progenitor Cells in <i>Staphylococcus aureus</i> -Infected Wounds. <i>Journal of Immunology</i> , 2017, 199, 1772-1782.	0.4	9
34	Atrial natriuretic peptide down-regulates neutrophil recruitment on inflamed endothelium by reducing cell deformability and resistance to detachment force. <i>Biorheology</i> , 2016, 53, 109-109.	1.2	0
35	Atrial natriuretic peptide down-regulates neutrophil recruitment on inflamed endothelium by reducing cell deformability and resistance to detachment force. <i>Biorheology</i> , 2016, 52, 447-463.	1.2	13
36	11,12-Epoxyecosatrienoic acids mitigate endothelial dysfunction associated with estrogen loss and aging: Role of membrane depolarization. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 94, 180-188.	0.9	9

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37	Gnb isoforms control a signaling pathway comprising Rac1, Plc $\beta$ 2, and Plc $\beta$ 3 leading to LFA-1 activation and neutrophil arrest in vivo. <i>Blood</i> , 2016, 127, 314-324.	0.6	33
38	Fond Memories of our Mentor J. David Hellums, <i>Annals of Biomedical Engineering</i> . <i>Annals of Biomedical Engineering</i> , 2016, 44, 3157-3157.	1.3	0
39	The role of atrial natriuretic peptide to attenuate inflammation in a mouse skin wound and individually perfused rat mesenteric microvessels. <i>Physiological Reports</i> , 2016, 4, e12968.	0.7	8
40	Rivipansel (GMI-1070) Inhibits E-Selectin Recognition of Sialyl LewisX Expressed on CD62L (L-selectin) and Blocks Integrin Activation and Arrest of Human Neutrophils. <i>Blood</i> , 2016, 128, 2509-2509.	0.6	1
41	Youâ€™ve got to be kindin!. <i>Blood</i> , 2015, 125, 1855-1856.	0.6	4
42	Coronary artery endothelial cells and microparticles increase expression of VCAM-1 in myocardial infarction. <i>Thrombosis and Haemostasis</i> , 2015, 113, 605-616.	1.8	52
43	Streptolysin O Rapidly Impairs Neutrophil Oxidative Burst and Antibacterial Responses to Group A Streptococcus. <i>Frontiers in Immunology</i> , 2015, 6, 581.	2.2	82
44	CD11c/CD18 Signals Very Late Antigen-4 Activation To Initiate Foamy Monocyte Recruitment during the Onset of Hypercholesterolemia. <i>Journal of Immunology</i> , 2015, 195, 5380-5392.	0.4	30
45	Foamy Monocytes Form Early and Contribute to Nascent Atherosclerosis in Mice With Hypercholesterolemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1787-1797.	1.1	71
46	Glycopeptide analogues of PSGL-1 inhibit P-selectin in vitro and in vivo. <i>Nature Communications</i> , 2015, 6, 6387.	5.8	69
47	Infection-induced type I interferons activate CD11b on B-1 cells for subsequent lymph node accumulation. <i>Nature Communications</i> , 2015, 6, 8991.	5.8	60
48	Reversible deactivation of higher-order posterior parietal areas. I. Alterations of receptive field characteristics in early stages of neocortical processing. <i>Journal of Neurophysiology</i> , 2014, 112, 2529-2544.	0.9	17
49	Catecholamine Stress Alters Neutrophil Trafficking and Impairs Wound Healing by $\beta$ 2-Adrenergic Receptorâ€‘Mediated Upregulation of IL-6. <i>Journal of Investigative Dermatology</i> , 2014, 134, 809-817.	0.3	91
50	Mechanosensing at the Vascular Interface. <i>Annual Review of Biomedical Engineering</i> , 2014, 16, 505-532.	5.7	146
51	Reversible deactivation of higher-order posterior parietal areas. II. Alterations in response properties of neurons in areas 1 and 2. <i>Journal of Neurophysiology</i> , 2014, 112, 2545-2560.	0.9	15
52	Detection of Bidirectional Signaling During Integrin Activation and Neutrophil Adhesion. <i>Methods in Molecular Biology</i> , 2014, 1124, 235-248.	0.4	4
53	Magnetic Nanoparticle Targeted Hyperthermia of Cutaneous Staphylococcus aureus Infection. <i>Annals of Biomedical Engineering</i> , 2013, 41, 598-609.	1.3	99
54	Microfluidic System for Facilitated Quantification of Nanoparticle Accumulation to Cells Under Laminar Flow. <i>Annals of Biomedical Engineering</i> , 2013, 41, 89-99.	1.3	42

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55	Five Simple Rules to Avoid Plagiarism. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1-2.	1.3	13
56	Clocking Leukocytes Reveal Dynamics of Integrin Braking. <i>Biophysical Journal</i> , 2013, 105, 1091-1092.	0.2	0
57	Shear stress modulates VCAM-1 expression in response to TNF- $\alpha$ and dietary lipids via interferon regulatory factor-1 in cultured endothelium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1149-H1157.	1.5	33
58	Editorial: A missing link? Monocyte activation by uremic toxins in cardiorenal syndrome. <i>Journal of Leukocyte Biology</i> , 2013, 93, 821-823.	1.5	3
59	On-chip phenotypic analysis of inflammatory monocytes in atherogenesis and myocardial infarction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13944-13949.	3.3	38
60	Staphylococcus aureus recognition by hematopoietic stem and progenitor cells via TLR2/MyD88/PGE2 stimulates granulopoiesis in wounds. <i>Blood</i> , 2013, 122, 1770-1778.	0.6	53
61	Gimme a brake: HPK1 regulates LFA-1 and neutrophil traction. <i>Blood</i> , 2013, 121, 4017-4018.	0.6	0
62	Triglyceride-Rich Lipoprotein Modulates Endothelial Vascular Cell Adhesion Molecule (VCAM)-1 Expression via Differential Regulation of Endoplasmic Reticulum Stress. <i>PLoS ONE</i> , 2013, 8, e78322.	1.1	47
63	Hematopoietic Stem and Progenitor Cells Locally Produce Neutrophils Necessary To Resolve S. Aureus-Infected Wounds. <i>Blood</i> , 2013, 122, 4710-4710.	0.6	0
64	Fabrication of an inexpensive, implantable cooling device for reversible brain deactivation in animals ranging from rodents to primates. <i>Journal of Neurophysiology</i> , 2012, 107, 3543-3558.	0.9	18
65	Chemokines, selectins and intracellular calcium flux: temporal and spatial cues for leukocyte arrest. <i>Frontiers in Immunology</i> , 2012, 3, 188.	2.2	79
66	Neutrophil-derived IL-1 $\beta$ Is Sufficient for Abscess Formation in Immunity against Staphylococcus aureus in Mice. <i>PLoS Pathogens</i> , 2012, 8, e1003047.	2.1	194
67	Leukocyte Function Antigen-1, Kindlin-3, and Calcium Flux Orchestrate Neutrophil Recruitment during Inflammation. <i>Journal of Immunology</i> , 2012, 189, 5954-5964.	0.4	48
68	Hematopoietic Stem and Progenitor Cells as Effectors in Innate Immunity. <i>Bone Marrow Research</i> , 2012, 2012, 1-8.	1.7	48
69	IRF-1 and miRNA126 Modulate VCAM-1 Expression in Response to a High-Fat Meal. <i>Circulation Research</i> , 2012, 111, 1054-1064.	2.0	81
70	On-Chip Endothelial Inflammatory Phenotyping. <i>Journal of Visualized Experiments</i> , 2012, , e4169.	0.2	2
71	E-Selectin Ligands as Mechanosensitive Receptors on Neutrophils in Health and Disease. <i>Annals of Biomedical Engineering</i> , 2012, 40, 849-859.	1.3	58
72	Preface to Special Issue: "Glycomechanics: Sugar Coating Blood Cells" Endothelial Interactions in Shear Flow. <i>Annals of Biomedical Engineering</i> , 2012, 40, 764-765.	1.3	0

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73	The anti-inflammatory effects of soluble epoxide hydrolase inhibitors are independent of leukocyte recruitment. <i>Biochemical and Biophysical Research Communications</i> , 2011, 410, 494-500.	1.0	24
74	Neutrophil survival and c-kit <sup>+</sup> -progenitor proliferation in <i>Staphylococcus aureus</i> infected skin wounds promote resolution. <i>Blood</i> , 2011, 117, 3343-3352.	0.6	103
75	Functional Characterization of Embryonic Stem Cell-Derived Endothelial Cells. <i>Journal of Vascular Research</i> , 2011, 48, 415-428.	0.6	39
76	CD11c/CD18 Expression Is Upregulated on Blood Monocytes During Hypertriglyceridemia and Enhances Adhesion to Vascular Cell Adhesion Molecule-1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 160-166.	1.1	139
77	Migrational Guidance of Neutrophils Is Mechanotransduced via High-Affinity LFA-1 and Calcium Flux. <i>Journal of Immunology</i> , 2011, 187, 472-481.	0.4	61
78	Noninvasive In Vivo Imaging to Evaluate Immune Responses and Antimicrobial Therapy against <i>Staphylococcus aureus</i> and USA300 MRSA Skin Infections. <i>Journal of Investigative Dermatology</i> , 2011, 131, 907-915.	0.3	63
79	Endothelial inflammation correlates with subject triglycerides and waist size after a high-fat meal. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H784-H791.	1.5	43
80	Inhibition of E-Selectin Inflammatory Function by the Glycomimetic GMI-1070. <i>Blood</i> , 2011, 118, 851-851.	0.6	3
81	Orai1 regulates intracellular calcium, arrest, and shape polarization during neutrophil recruitment in shear flow. <i>Blood</i> , 2010, 115, 657-666.	0.6	99
82	A day (or 5) in a neutrophil's life. <i>Blood</i> , 2010, 116, 511-512.	0.6	28
83	Mightier than the sickle cell. <i>Blood</i> , 2010, 116, 1633-1633.	0.6	2
84	A Mouse Model of Post-Arthroplasty <i>Staphylococcus aureus</i> Joint Infection to Evaluate In Vivo the Efficacy of Antimicrobial Implant Coatings. <i>PLoS ONE</i> , 2010, 5, e12580.	1.1	181
85	Long-Lived, High-Strength States of ICAM-1 Bonds to $\beta_2$ Integrin, I: Lifetimes of Bonds to Recombinant $\beta_2$ Under Force. <i>Biophysical Journal</i> , 2010, 98, 1458-1466.	0.2	42
86	Long-Lived, High-Strength States of ICAM-1 Bonds to $\beta_2$ Integrin, II: Lifetimes of LFA-1 Bonds Under Force in Leukocyte Signaling. <i>Biophysical Journal</i> , 2010, 98, 1467-1475.	0.2	30
87	VASCULAR MIMETIC MICROFLUIDIC SYSTEMS FOR THE STUDY OF ENDOTHELIAL ACTIVATION AND LEUKOCYTE RECRUITMENT IN MODELS OF ATHEROGENESIS. , 2010, , 313-329.		1
88	Effects of GMI-1070, a Pan-Selectin Inhibitor, on Leukocyte Adhesion In Sickle Cell Disease: Results From a Phase 1/2 Study. <i>Blood</i> , 2010, 116, 262-262.	0.6	4
89	Effects of Selectin Antagonist GMI-1070 on the Activation State of Leukocytes In Sickle Cell Patients Not In Crisis. <i>Blood</i> , 2010, 116, 2672-2672.	0.6	0
90	Vav1 Is Essential for Mechanotactic Crawling and Migration of Neutrophils out of the Inflamed Microvasculature. <i>Journal of Immunology</i> , 2009, 182, 6870-6878.	0.4	114

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91	Functional Role of CD11c <sup>+</sup> Monocytes in Atherogenesis Associated With Hypercholesterolemia. <i>Circulation</i> , 2009, 119, 2708-2717.	1.6	200
92	Dynamics of neutrophil extravasation and vascular permeability are uncoupled during aseptic cutaneous wounding. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C848-C856.	2.1	79
93	Comparative Analysis of Normal versus CLL B-Lymphocytes Reveals Patient-Specific Variability in Signaling Mechanisms Controlling LFA-1 Activation by Chemokines. <i>Cancer Research</i> , 2009, 69, 9281-9290.	0.4	36
94	LEUCOCYTE RECRUITMENT UNDER FLUID SHEAR: MECHANICAL AND MOLECULAR REGULATION WITHIN THE INFLAMMATORY SYNAPSE. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009, 36, 217-224.	0.9	25
95	Dimerization of LFA-1/ICAM-1 bond provides a spatio-temporal cue in PMN recruitment. <i>FASEB Journal</i> , 2009, 23, 639.2.	0.2	0
96	Monocyte integrin CD11c/CD18 is a functional biomarker for risk of cardiovascular disease. <i>FASEB Journal</i> , 2009, 23, 593.7.	0.2	0
97	Outside-in signaling via LFA-1 in acute inflammation. <i>FASEB Journal</i> , 2009, 23, 762.17.	0.2	0
98	Monocyte CD11c/CD18 expression is upregulated postprandially and mediates firm arrest on VCAM-1. <i>FASEB Journal</i> , 2009, 23, 640.5.	0.2	0
99	Hydrodynamic Shear Rate Regulates Melanoma-Leukocyte Aggregation, Melanoma Adhesion to the Endothelium, and Subsequent Extravasation. <i>Annals of Biomedical Engineering</i> , 2008, 36, 661-671.	1.3	72
100	Differential Regulation of Neutrophil CD18 Integrin Function by Di- and Tri-Valent Cations: Manganese vs. Gadolinium. <i>Annals of Biomedical Engineering</i> , 2008, 36, 647-660.	1.3	4
101	Calcium Flux in Neutrophils Synchronizes $\beta_2$ Integrin Adhesive and Signaling Events that Guide Inflammatory Recruitment. <i>Annals of Biomedical Engineering</i> , 2008, 36, 632-646.	1.3	78
102	Fluid shear-induced activation and cleavage of CD18 during pseudopod retraction by human neutrophils. <i>Journal of Cellular Physiology</i> , 2008, 214, 528-536.	2.0	27
103	SLC11/sorting nexin <sup>20</sup> : A novel sorting nexin that directs subcellular distribution of PSGL-1. <i>European Journal of Immunology</i> , 2008, 38, 550-564.	1.6	21
104	Spatial Regulation of Inflammation by Human Aortic Endothelial Cells in a Linear Gradient of Shear Stress. <i>Microcirculation</i> , 2008, 15, 311-323.	1.0	74
105	Dynamics of Neutrophil Infiltration during Cutaneous Wound Healing and Infection Using Fluorescence Imaging. <i>Journal of Investigative Dermatology</i> , 2008, 128, 1812-1820.	0.3	211
106	Transmigration of Neutrophils across Inflamed Endothelium Is Signaled through LFA-1 and Src Family Kinase. <i>Journal of Immunology</i> , 2008, 181, 8660-8669.	0.4	25
107	Neutrophil adhesion to E-selectin under shear promotes the redistribution and co-clustering of ADAM17 and its proteolytic substrate L-selectin. <i>Journal of Leukocyte Biology</i> , 2008, 83, 99-105.	1.5	39
108	E-selectin prefers fatty-sweet receptors on rolling neutrophils. <i>Blood</i> , 2008, 112, 3537-3537.	0.6	0

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109	Altered conformational activity and cleavage of CD18 integrins on the human neutrophil surface exposed to fluid shear stress. <i>FASEB Journal</i> , 2008, 22, 1218.4.	0.2	0
110	CD11c/CD18: novel ligands and a role in delayed-type hypersensitivity. <i>Journal of Leukocyte Biology</i> , 2007, 81, 1395-1403.	1.5	95
111	Triglyceride-Rich Lipoproteins Prime Aortic Endothelium for an Enhanced Inflammatory Response to Tumor Necrosis Factor- $\alpha$ . <i>Circulation Research</i> , 2007, 100, 381-390.	2.0	125
112	The integrins. <i>Genome Biology</i> , 2007, 8, 215.	13.9	995
113	Vascular mimetics based on microfluidics for imaging the leukocyte-endothelial inflammatory response. <i>Lab on A Chip</i> , 2007, 7, 448-456.	3.1	121
114	Mechanisms of B-Cell Synapse Formation Predicted by Monte Carlo Simulation. <i>Biophysical Journal</i> , 2007, 92, 4196-4208.	0.2	44
115	Polyurethane Shape-Memory Polymers Demonstrate Functional Biocompatibility In Vitro. <i>Macromolecular Bioscience</i> , 2007, 7, 48-55.	2.1	64
116	Dynamics of Neutrophil Membrane Compliance and Microstructure probed with a Micropipet-based Piconewton Force Transducer. <i>Annals of Biomedical Engineering</i> , 2007, 35, 595-604.	1.3	14
117	Optical and Fluorescence Detection of Neutrophil Integrin Activation. <i>Methods in Molecular Biology</i> , 2007, 412, 203-210.	0.4	1
118	$\beta$ 2-integrin affinity and valence in binding ICAM-1 regulates contact mediated emigration of PMN in shear flow.. <i>FASEB Journal</i> , 2007, 21, A1226.	0.2	1
119	Impaired Integrin-Dependent Function in Wiskott-Aldrich Syndrome Protein-Deficient Murine and Human Neutrophils. <i>Immunity</i> , 2006, 25, 285-295.	6.6	130
120	Dynamic shifts in LFA-1 affinity regulate neutrophil rolling, arrest, and transmigration on inflamed endothelium. <i>Blood</i> , 2006, 107, 2101-2111.	0.6	75
121	Ultrasound radiation force enables targeted deposition of model drug carriers loaded on microbubbles. <i>Journal of Controlled Release</i> , 2006, 111, 128-134.	4.8	253
122	LFA-1 bound to ICAM-1 homodimer regulates adhesion lifetime and outside-in signaling. <i>FASEB Journal</i> , 2006, 20, A116.	0.2	0
123	Microkinetics of leukocyte recruitment imaged in vascular mimetics. <i>FASEB Journal</i> , 2006, 20, A527.	0.2	0
124	Cytoskeletal interactions regulate inducible L-selectin clustering. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C323-C332.	2.1	21
125	Molecular Mechanics and Dynamics of Leukocyte Recruitment During Inflammation. <i>Annual Review of Biomedical Engineering</i> , 2005, 7, 151-185.	5.7	237
126	Leukocyte Function-associated Antigen 1-mediated Adhesion Stability Is Dynamically Regulated through Affinity and Valency during Bond Formation with Intercellular Adhesion Molecule-1. <i>Journal of Biological Chemistry</i> , 2005, 280, 28290-28298.	1.6	41



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127	Rolling dynamics of a neutrophil with redistributed L-selectin. <i>Mathematical Biosciences</i> , 2005, 194, 71-79.	0.9	22
128	Cooperativity Between Selectins and $\beta$ 2-Integrins Define Neutrophil Capture and Stable Adhesion in Shear Flow. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1179-1192.	1.3	11
129	Inflammatory potential of neutrophils detected in sickle cell disease. <i>American Journal of Hematology</i> , 2004, 76, 126-133.	2.0	66
130	Shear-Dependent Capping of L-Selectin and P-Selectin Glycoprotein Ligand 1 by E-Selectin Signals Activation of High-Avidity $\beta$ 2-Integrin on Neutrophils. <i>Journal of Immunology</i> , 2004, 172, 7780-7790.	0.4	118
131	Roles of neutrophil $\beta$ 2 integrins in kinetics of bacteremia, extravasation, and tick acquisition of <i>Anaplasma phagocytophila</i> in mice. <i>Blood</i> , 2003, 101, 3257-3264.	0.6	19
132	Topographic requirements and dynamics of signaling via L-selectin on neutrophils. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C705-C717.	2.1	25
133	Dynamic Regulation of LFA-1 Activation and Neutrophil Arrest on Intercellular Adhesion Molecule 1 (ICAM-1) in Shear Flow. <i>Journal of Biological Chemistry</i> , 2002, 277, 20660-20670.	1.6	105
134	Hydrodynamic Shear and Tethering through E-selectin Signals Phosphorylation of p38 MAP Kinase and Adhesion of Human Neutrophils. <i>Annals of Biomedical Engineering</i> , 2002, 30, 987-1001.	1.3	24
135	Kinetics of CD11b/CD18 Up-Regulation During Infection with the Agent of Human Granulocytic Ehrlichiosis in Mice. <i>Laboratory Investigation</i> , 2002, 82, 303-311.	1.7	31
136	Leukocyte Adhesion Dynamics in Shear Flow. <i>Annals of Biomedical Engineering</i> , 2002, 30, 315-332.	1.3	73
137	Dynamics of Neutrophil Aggregation in Couette Flow Revealed by Videomicroscopy: Effect of Shear Rate on Two-Body Collision Efficiency and Doublet Lifetime. <i>Biophysical Journal</i> , 2001, 81, 2020-2034.	0.2	37
138	Optical and Acoustical Dynamics of Microbubble Contrast Agents inside Neutrophils. <i>Biophysical Journal</i> , 2001, 80, 1547-1556.	0.2	133
139	Characterization of equine E-selectin. <i>Immunology</i> , 2001, 103, 498-504.	2.0	40
140	Sequential binding of CD11a/CD18 and CD11b/CD18 defines neutrophil capture and stable adhesion to intercellular adhesion molecule-1. <i>Blood</i> , 2000, 95, 911-920.	0.6	123
141	Neutrophil Tethering on E-Selectin Activates $\beta$ 2 Integrin Binding to ICAM-1 Through a Mitogen-Activated Protein Kinase Signal Transduction Pathway. <i>Journal of Immunology</i> , 2000, 164, 4348-4358.	0.4	218
142	Shear and Time-Dependent Changes in Mac-1, LFA-1, and ICAM-3 Binding Regulate Neutrophil Homotypic Adhesion. <i>Journal of Immunology</i> , 2000, 164, 3798-3805.	0.4	56
143	L-Selectin Signaling of Neutrophil Adhesion and Degranulation Involves p38 Mitogen-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 2000, 275, 15876-15884.	1.6	134
144	P-selectin mediates neutrophil adhesion to endothelial cell borders. <i>Journal of Leukocyte Biology</i> , 1999, 65, 299-306.	1.5	98

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145	<i>Enterococcus faecalis</i> Bearing Aggregation Substance Is Resistant to Killing by Human Neutrophils despite Phagocytosis and Neutrophil Activation. <i>Infection and Immunity</i> , 1999, 67, 6067-6075.	1.0	132
146	Venous Levels of Shear Support Neutrophil-Platelet Adhesion and Neutrophil Aggregation in Blood via P-Selectin and $\beta_2$ -Integrin. <i>Circulation</i> , 1998, 98, 873-882.	1.6	146
147	The Multistep Process of Homotypic Neutrophil Aggregation: A Review of the Molecules and Effects of Hydrodynamics. <i>Cell Adhesion and Communication</i> , 1998, 6, 263-276.	1.7	20
148	$\beta_2$ -Integrins mediate stable adhesion in collisional interactions between neutrophils and ICAM-1-expressing cells. <i>Journal of Leukocyte Biology</i> , 1998, 64, 622-630.	1.5	35
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151	Interactions of lipopolysaccharide with neutrophils in blood via CD14. <i>Journal of Leukocyte Biology</i> , 1993, 53, 518-524.	1.5	62
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