

Ronen Alon

List of Publications by Year in descending order

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111
papers

14,324
citations

44444

50
h-index

32181

105
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135
all docs

135
docs citations

135
times ranked

16036
citing authors

#	ARTICLE	IF	CITATIONS
1	The magnitude of LFA-1/ICAM-1 forces fine-tune TCR-triggered T cell activation. <i>Science Advances</i> , 2022, 8, eabg4485.	4.7	36
2	Leukocyte trafficking to the lungs and beyond: lessons from influenza for COVID-19. <i>Nature Reviews Immunology</i> , 2021, 21, 49-64.	10.6	126
3	Microtubule destabilization is a critical checkpoint of chemotaxis and transendothelial migration in melanoma cells but not in T cells. <i>Cell Adhesion and Migration</i> , 2021, 15, 166-179.	1.1	3
4	Reduced Lamin A/C Does Not Facilitate Cancer Cell Transendothelial Migration but Compromises Lung Metastasis. <i>Cancers</i> , 2021, 13, 2383.	1.7	15
5	Live imaging of chromatin distribution reveals novel principles of nuclear architecture and chromatin compartmentalization. <i>Science Advances</i> , 2021, 7, .	4.7	52
6	LFA-1 in T cell priming, differentiation, and effector functions. <i>Trends in Immunology</i> , 2021, 42, 706-722.	2.9	43
7	Î²2-Integrin Adhesion Regulates Dendritic Cell Epigenetic and Transcriptional Landscapes to Restrict Dendritic Cell Maturation and Tumor Rejection. <i>Cancer Immunology Research</i> , 2021, 9, 1354-1369.	1.6	10
8	CCR7 signalosomes are preassembled on tips of lymphocyte microvilli in proximity to LFA-1. <i>Biophysical Journal</i> , 2021, 120, 4002-4012.	0.2	6
9	Lactate released by inflammatory bone marrow neutrophils induces their mobilization via endothelial GPR81 signaling. <i>Nature Communications</i> , 2020, 11, 3547.	5.8	93
10	ERM-Dependent Assembly of T Cell Receptor Signaling and Co-stimulatory Molecules on Microvilli prior to Activation. <i>Cell Reports</i> , 2020, 30, 3434-3447.e6.	2.9	58
11	Î²2 Integrin Signaling Cascade in Neutrophils: More Than a Single Function. <i>Frontiers in Immunology</i> , 2020, 11, 619925.	2.2	47
12	IL18 signaling promotes homing of mature Tregs into the thymus. <i>ELife</i> , 2020, 9, .	2.8	28
13	Stable contacts of naïve CD4 T cells with migratory dendritic cells are ICAM-1-dependent but dispensable for proliferation in vivo. <i>Cell Adhesion and Migration</i> , 2019, 13, 314-320.	1.1	27
14	Chemokine-triggered microtubule polymerization promotes neutrophil chemotaxis and invasion but not transendothelial migration. <i>Journal of Leukocyte Biology</i> , 2019, 105, 755-766.	1.5	13
15	Acute Inflammation Induces Lactate Release By Bone Marrow Neutrophils That Promotes Their Mobilization Via Endothelial GPR81 Signaling. <i>Blood</i> , 2019, 134, 3582-3582.	0.6	0
16	Frontline Science: Elevated nuclear lamin A is permissive for granulocyte transendothelial migration but not for motility through collagen I barriers. <i>Journal of Leukocyte Biology</i> , 2018, 104, 239-251.	1.5	24
17	ICAMs Are Not Obligatory for Functional Immune Synapses between Naive CD4 ⁺ T Cells and Lymph Node DCs. <i>Cell Reports</i> , 2018, 22, 849-859.	2.9	43
18	Microenvironment-induced CD44v6 promotes early disease progression in chronic lymphocytic leukemia. <i>Blood</i> , 2018, 131, 1337-1349.	0.6	18

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19	p53 in Bronchial Club Cells Facilitates Chronic Lung Inflammation by Promoting Senescence. <i>Cell Reports</i> , 2018, 22, 3468-3479.	2.9	35
20	Nuclear Deformation During Neutrophil Migration at Sites of Inflammation. <i>Frontiers in Immunology</i> , 2018, 9, 2680.	2.2	39
21	Distinct Compartmentalization of the Chemokines CXCL1 and CXCL2 and the Atypical Receptor ACKR1 Determine Discrete Stages of Neutrophil Diapedesis. <i>Immunity</i> , 2018, 49, 1062-1076.e6.	6.6	233
22	Improvement and extension of anti-EGFR targeting in breast cancer therapy by integration with the Avidin-Nucleic-Acid-Nano-Assemblies. <i>Nature Communications</i> , 2018, 9, 4070.	5.8	62
23	Leukocytes Breach Endothelial Barriers by Insertion of Nuclear Lobes and Disassembly of Endothelial Actin Filaments. <i>Cell Reports</i> , 2017, 18, 685-699.	2.9	78
24	Leukocyte Breaching of Endothelial Barriers: The Actin Link. <i>Trends in Immunology</i> , 2017, 38, 606-615.	2.9	46
25	A Sweet Solution: Glycolysis-Dependent Treg Cell Migration. <i>Immunity</i> , 2017, 47, 805-807.	6.6	9
26	Lung ICAM-1 and ICAM-2 support spontaneous intravascular effector lymphocyte entrapment but are not required for neutrophil entrapment or emigration inside endotoxin-inflamed lungs. <i>FASEB Journal</i> , 2016, 30, 1767-1778.	0.2	17
27	Three-dimensional localization of T-cell receptors in relation to microvilli using a combination of superresolution microscopies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5916-E5924.	3.3	175
28	M-secl regulates polarized secretion of inflammatory endothelial chemokines and facilitates CCL2-mediated lymphocyte transendothelial migration. <i>Journal of Leukocyte Biology</i> , 2016, 99, 1045-1055.	1.5	14
29	Heparanase of murine effector lymphocytes and neutrophils is not required for their diapedesis into sites of inflammation. <i>FASEB Journal</i> , 2015, 29, 2010-2021.	0.2	29
30	Synaptojanin 2 is a druggable mediator of metastasis and the gene is overexpressed and amplified in breast cancer. <i>Science Signaling</i> , 2015, 8, ra7.	1.6	53
31	Leukocyte Migration into Inflamed Tissues. <i>Immunity</i> , 2014, 41, 694-707.	6.6	882
32	Transendothelial migration of effector T cells across inflamed endothelial barriers does not require heparan sulfate proteoglycans. <i>International Immunology</i> , 2014, 26, 315-324.	1.8	17
33	CXCL11-dependent induction of FOXP3-negative regulatory T cells suppresses autoimmune encephalomyelitis. <i>Journal of Clinical Investigation</i> , 2014, 124, 2009-2022.	3.9	145
34	Blood Vessels Pattern Heparan Sulfate Gradients between Their Apical and Basolateral Aspects. <i>PLoS ONE</i> , 2014, 9, e85699.	1.1	46
35	The integrin coactivator Kindlin-3 is not required for lymphocyte diapedesis. <i>Blood</i> , 2013, 122, 2609-2617.	0.6	23
36	Tumor Suppressor Death-Associated Protein Kinase Attenuates Inflammatory Responses in the Lung. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 46, 313-322.	1.4	24

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37	Chemokine-triggered leukocyte arrest: force-regulated bi-directional integrin activation in quantal adhesive contacts. <i>Current Opinion in Cell Biology</i> , 2012, 24, 670-676.	2.6	69
38	Transendothelial migration of lymphocytes mediated by intraendothelial vesicle stores rather than by extracellular chemokine depots. <i>Nature Immunology</i> , 2012, 13, 67-76.	7.0	149
39	Kindlin-3 is required for the stabilization of TCR-stimulated LFA-1:ICAM-1 bonds critical for lymphocyte arrest and spreading on dendritic cells. <i>Blood</i> , 2011, 117, 7042-7052.	0.6	49
40	Chemokine triggered integrin activation and actin remodeling events guiding lymphocyte migration across vascular barriers. <i>Experimental Cell Research</i> , 2011, 317, 632-641.	1.2	91
41	Pathways Implicated in Stem Cell Migration: The SDF-1/CXCR4 Axis. <i>Methods in Molecular Biology</i> , 2011, 750, 277-289.	0.4	55
42	Real-Time Analysis of Integrin-Dependent Transendothelial Migration and Integrin-Independent Interstitial Motility of Leukocytes. <i>Methods in Molecular Biology</i> , 2011, 757, 31-45.	0.4	9
43	Talin1 is required for integrin-dependent B lymphocyte homing to lymph nodes and the bone marrow but not for follicular B-cell maturation in the spleen. <i>Blood</i> , 2010, 116, 5907-5918.	0.6	39
44	Trapped versus Soluble Chemokines: Functions in Leukocyte Adhesion and Motility. <i>Immunity</i> , 2010, 33, 654-656.	6.6	4
45	Occupancy of Lymphocyte LFA-1 by Surface-Immobilized ICAM-1 Is Critical for TCR- but Not for Chemokine-Triggered LFA-1 Conversion to an Open Headpiece High-Affinity State. <i>Journal of Immunology</i> , 2010, 185, 7394-7404.	0.4	33
46	Chemokine arrest signals to leukocyte integrins trigger bi-directional-occupancy of individual heterodimers by extracellular and cytoplasmic ligands. <i>Cell Adhesion and Migration</i> , 2010, 4, 211-214.	1.1	10
47	Chapter 14 Real-Time In Vitro Assays For Studying the Role of Chemokines in Lymphocyte Transendothelial Migration Under Physiologic Flow Conditions. <i>Methods in Enzymology</i> , 2009, 461, 311-332.	0.4	16
48	Cell motility: <i>Small</i> 15/2009. <i>Small</i> , 2009, 5, NA-NA.	5.2	0
49	A Biochip Model of Lymphocyte Locomotion on Confined Chemokine Tracks. <i>Small</i> , 2009, 5, 1723-1726.	5.2	5
50	Lymphocyte Crawling and Transendothelial Migration Require Chemokine Triggering of High-Affinity LFA-1 Integrin. <i>Immunity</i> , 2009, 30, 384-396.	6.6	244
51	Chemokine Signaling to Lymphocyte Integrins Under Shear Flow. <i>Microcirculation</i> , 2009, 16, 3-16.	1.0	28
52	Linking single integrin-ligand bond properties to cell adhesiveness under external forces exemplified by the VLA-4-VCAM-1 bond. <i>Soft Matter</i> , 2009, 5, 4141.	1.2	2
53	β 2-Arrestin 2 is required for the induction and strengthening of integrin-mediated leukocyte adhesion during CXCR2-driven extravasation. <i>Blood</i> , 2009, 114, 1073-1082.	0.6	29
54	Loss of Kindlin-3 in LAD-III eliminates LFA-1 but not VLA-4 adhesiveness developed under shear flow conditions. <i>Blood</i> , 2009, 114, 2344-2353.	0.6	92

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55	Chapter 6 Membraneâ€“Cytoskeletal Platforms for Rapid Chemokine Signaling to Integrins. <i>Current Topics in Membranes</i> , 2009, 64, 157-193.	0.5	0
56	Cells on the run: shear-regulated integrin activation in leukocyte rolling and arrest on endothelial cells. <i>Current Opinion in Cell Biology</i> , 2008, 20, 525-532.	2.6	167
57	RhoA Is Involved in LFA-1 Extension Triggered by CXCL12 but Not in a Novel Outside-In LFA-1 Activation Facilitated by CXCL9. <i>Journal of Immunology</i> , 2008, 180, 2815-2823.	0.4	32
58	A crosstalk between intracellular CXCR7 and CXCR4 involved in rapid CXCL12-triggered integrin activation but not in chemokine-triggered motility of human T lymphocytes and CD34+ cells. <i>Journal of Leukocyte Biology</i> , 2008, 84, 1130-1140.	1.5	191
59	A LAD-III syndrome is associated with defective expression of the Rap-1 activator CalDAG-GEFI in lymphocytes, neutrophils, and platelets. <i>Journal of Experimental Medicine</i> , 2007, 204, 1571-1582.	4.2	150
60	Membranal Cholesterol Is Not Required for L-Selectin Adhesiveness in Primary Lymphocytes but Controls a Chemokine-Induced Destabilization of L-Selectin Rolling Adhesions. <i>Journal of Immunology</i> , 2007, 179, 1030-1038.	0.4	6
61	Talin 1 and Paxillin Facilitate Distinct Steps in Rapid VLA-4-mediated Adhesion Strengthening to Vascular Cell Adhesion Molecule 1. <i>Journal of Biological Chemistry</i> , 2007, 282, 25338-25348.	1.6	51
62	Shear flowâ€“dependent integration of apical and subendothelial chemokines in T-cell transmigration: implications for locomotion and the multistep paradigm. <i>Blood</i> , 2007, 109, 1381-1386.	0.6	93
63	Force as a Facilitator of Integrin Conformational Changes during Leukocyte Arrest on Blood Vessels and Antigen-Presenting Cells. <i>Immunity</i> , 2007, 26, 17-27.	6.6	255
64	Lymph node chemokines promote sustained T lymphocyte motility without triggering stable integrin adhesiveness in the absence of shear forces. <i>Nature Immunology</i> , 2007, 8, 1076-1085.	7.0	310
65	Integrin modulation and signaling in leukocyte adhesion and migration. <i>Immunological Reviews</i> , 2007, 218, 126-134.	2.8	215
66	Right on the spot. <i>Thrombosis and Haemostasis</i> , 2006, 95, 5-11.	1.8	128
67	DOCK2 regulates chemokine-triggered lateral lymphocyte motility but not transendothelial migration. <i>Blood</i> , 2006, 108, 2150-2158.	0.6	70
68	Right on the spot. Chemokine triggering of integrin-mediated arrest of rolling leukocytes. <i>Thrombosis and Haemostasis</i> , 2006, 95, 5-11.	1.8	45
69	Lymphocyte arrest requires instantaneous induction of an extended LFA-1 conformation mediated by endothelium-bound chemokines. <i>Nature Immunology</i> , 2005, 6, 497-506.	7.0	361
70	Immune cell migration in inflammation: present and future therapeutic targets. <i>Nature Immunology</i> , 2005, 6, 1182-1190.	7.0	1,145
71	ICAM-1 regulates neutrophil adhesion and transcellular migration of TNF- α -activated vascular endothelium under flow. <i>Blood</i> , 2005, 106, 584-592.	0.6	625
72	β 1-dependent adhesion strengthening under mechanical strain is regulated by paxillin association with the β 4-cytoplasmic domain. <i>Journal of Cell Biology</i> , 2005, 171, 1073-1084.	2.3	86

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73	Enzymatically Quiescent Heparanase Augments T Cell Interactions with VCAM-1 and Extracellular Matrix Components under Versatile Dynamic Contexts. <i>Journal of Immunology</i> , 2004, 172, 5185-5193.	0.4	78
74	Elastase Release by Transmigrating Neutrophils Deactivates Endothelial-bound SDF-1 α and Attenuates Subsequent T Lymphocyte Transendothelial Migration. <i>Journal of Experimental Medicine</i> , 2004, 200, 713-724.	4.2	68
75	Chemoattractant Signals and β 2 Integrin Occupancy at Apical Endothelial Contacts Combine with Shear Stress Signals to Promote Transendothelial Neutrophil Migration. <i>Journal of Immunology</i> , 2004, 173, 7282-7291.	0.4	102
76	Crawling and INTEGRating apical cues. <i>Nature Immunology</i> , 2004, 5, 351-353.	7.0	17
77	Differential usage of VLA-4 and CXCR4 by CD3 ⁺ CD56 ⁺ NKT cells and CD56 ⁺ CD16 ⁺ NK cells regulates their interaction with endothelial cells. <i>European Journal of Immunology</i> , 2004, 34, 1333-1341.	1.6	23
78	Leukocyte adhesion deficiency III: a group of integrin activation defects in hematopoietic lineage cells. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2004, 4, 485-490.	1.1	50
79	LAD-III, a leukocyte adhesion deficiency syndrome associated with defective Rap1 activation and impaired stabilization of integrin bonds. <i>Blood</i> , 2004, 103, 1033-1036.	0.6	107
80	A real time in vitro assay for studying leukocyte transendothelial migration under physiological flow conditions. <i>Journal of Immunological Methods</i> , 2003, 273, 53-62.	0.6	49
81	Chemokine Induction of Integrin Adhesiveness on Rolling and Arrested Leukocytes Local Signaling Events or Global Stepwise Activation?. <i>Microcirculation</i> , 2003, 10, 297-311.	1.0	55
82	LAD-III, a novel group of leukocyte integrin activation deficiencies. <i>Trends in Immunology</i> , 2003, 24, 561-566.	2.9	94
83	Avidity enhancement of L-selectin bonds by flow. <i>Journal of Cell Biology</i> , 2003, 163, 649-659.	2.3	48
84	The CD81 Tetraspanin Facilitates Instantaneous Leukocyte VLA-4 Adhesion Strengthening to Vascular Cell Adhesion Molecule 1 (VCAM-1) under Shear Flow. <i>Journal of Biological Chemistry</i> , 2003, 278, 51203-51212.	1.6	92
85	A novel genetic leukocyte adhesion deficiency in subsecond triggering of integrin avidity by endothelial chemokines results in impaired leukocyte arrest on vascular endothelium under shear flow. <i>Blood</i> , 2003, 101, 4437-4445.	0.6	84
86	Shear forces Promote Neutrophil Transendothelial Migration Triggered by Endothelium-Displayed Chemoattractants. Phase-Contrast Videomicroscopy and Transmission Electron Microscopy Studies. <i>Microscopy and Microanalysis</i> , 2003, 9, 416-417.	0.2	0
87	Chemokine Stimulation of Lymphocyte β 4 Integrin Avidity but Not of Leukocyte Function-associated Antigen-1 Avidity to Endothelial Ligands under Shear Flow Requires Cholesterol Membrane Rafts. <i>Journal of Biological Chemistry</i> , 2002, 277, 40027-40035.	1.6	49
88	Endothelial Chemokines Destabilize L-selectin-mediated Lymphocyte Rolling without Inducing Selectin Shedding. <i>Journal of Biological Chemistry</i> , 2002, 277, 20640-20650.	1.6	27
89	From rolling to arrest on blood vessels: leukocyte tap dancing on endothelial integrin ligands and chemokines at sub-second contacts. <i>Seminars in Immunology</i> , 2002, 14, 93-104.	2.7	196
90	Tumor cell MUC1 and CD43 are glycosylated differently with sialyl-Lewis a and x epitopes and show variable interactions with E-selectin under physiological flow conditions. <i>Glycoconjugate Journal</i> , 2001, 18, 925-930.	1.4	30

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91	Shear forces promote lymphocyte migration across vascular endothelium bearing apical chemokines. <i>Nature Immunology</i> , 2001, 2, 515-522.	7.0	360
92	Cytoplasmic anchorage of L-selectin controls leukocyte capture and rolling by increasing the mechanical stability of the selectin tether. <i>Journal of Cell Biology</i> , 2001, 155, 145-156.	2.3	94
93	The Src Kinase p56 Up-regulates VLA-4 Integrin Affinity. <i>Journal of Biological Chemistry</i> , 2001, 276, 13891-13901.	1.6	73
94	An altered peptide ligand inhibits the activities of matrix metalloproteinase-9 and phospholipase C, and inhibits T cell interactions with VCAM-1 induced in vivo by a myasthenogenic T cell epitope. <i>FASEB Journal</i> , 2001, 15, 187-194.	0.2	18
95	CD44-dependent lymphoma cell dissemination: a cell surface CD44 variant, rather than standard CD44, supports in vitro lymphoma cell rolling on hyaluronic acid substrate and its in vivo accumulation in the peripheral lymph nodes. <i>Journal of Cell Science</i> , 2001, 114, 3463-3477.	1.2	40
96	DC-SIGN-ICAM-2 interaction mediates dendritic cell trafficking. <i>Nature Immunology</i> , 2000, 1, 353-357.	7.0	465
97	The chemokine SDF-1 activates the integrins LFA-1, VLA-4, and VLA-5 on immature human CD34+ cells: role in transendothelial/stromal migration and engraftment of NOD/SCID mice. <i>Blood</i> , 2000, 95, 3289-3296.	0.6	685
98	The LFA-1 Integrin Supports Rolling Adhesions on ICAM-1 Under Physiological Shear Flow in a Permissive Cellular Environment. <i>Journal of Immunology</i> , 2000, 165, 442-452.	0.4	113
99	An Activated L-selectin Mutant with Conserved Equilibrium Binding Properties but Enhanced Ligand Recognition under Shear Flow. <i>Journal of Biological Chemistry</i> , 2000, 275, 18682-18691.	1.6	41
100	Autocrine Secretion of Interferon γ Negatively Regulates Homing of Immature B Cells. <i>Journal of Experimental Medicine</i> , 2000, 192, 1381-1388.	4.2	76
101	Subsecond Induction of β 4 Integrin Clustering by Immobilized Chemokines Stimulates Leukocyte Tethering and Rolling on Endothelial Vascular Cell Adhesion Molecule 1 under Flow Conditions. <i>Journal of Experimental Medicine</i> , 2000, 192, 495-506.	4.2	296
102	Cytokine profile and T cell adhesiveness to endothelial selectins: in vivo induction by a myasthenogenic T cell epitope and immunomodulation by a dual altered peptide ligand. <i>International Immunology</i> , 2000, 12, 1651-1658.	1.8	11
103	Dependence of Human Stem Cell Engraftment and Repopulation of NOD/SCID Mice on CXCR4. <i>Science</i> , 1999, 283, 845-848.	6.0	1,598
104	The chemokine SDF-1 stimulates integrin-mediated arrest of CD34+ cells on vascular endothelium under shear flow. <i>Journal of Clinical Investigation</i> , 1999, 104, 1199-1211.	3.9	479
105	GlyCAM-1 supports leukocyte rolling in flow: Evidence for a greater dynamic stability of L-selectin rolling of lymphocytes than of neutrophils. <i>Cell Adhesion and Communication</i> , 1998, 6, 349-370.	1.7	28
106	Induction of T cell adhesion to extracellular matrix or endothelial cell ligands by soluble or matrix-bound interleukin-7. <i>European Journal of Immunology</i> , 1997, 27, 2562-2570.	1.6	68
107	The C-C Chemokine MCP-1 Differentially Modulates the Avidity of β 1 and β 2 Integrins on T Lymphocytes. <i>Immunity</i> , 1996, 4, 179-187.	6.6	188
108	Adhesion through L-selectin requires a threshold hydrodynamic shear. <i>Nature</i> , 1996, 379, 266-269.	13.7	434

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109	Lifetime of the P-selectin-carbohydrate bond and its response to tensile force in hydrodynamic flow. <i>Nature</i> , 1995, 374, 539-542.	13.7	657
110	Real Time In Vitro Assays for Studying Leukocyte Transendothelial Migration Under Physiological Flow Conditions. , 0, , 437-454.		0
111	ICAM-1 on Breast Cancer Cells Suppresses Lung Metastasis but Is Dispensable for Tumor Growth and Killing by Cytotoxic T Cells. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	7