Timothy A Springer

List of Publications by Year
in descending order

309 papers	66,340 citations	1097 112 h-index	718 252 g-index
331 all docs	331 docs citations	331 times ranked	33411 citing authors

#	Article	IF	Citations
1	Traffic signals for lymphocyte recirculation and leukocyte emigration: The multistep paradigm. Cell, 1994, 76, 301-314.	13.5	6,758
2	Adhesion receptors of the immune system. Nature, 1990, 346, 425-434.	13.7	6,544
3	Leukocytes roll on a selectin at physiologic flow rates: Distinction from and prerequisite for adhesion through integrins. Cell, 1991, 65, 859-873.	13.5	2,131
4	The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry. Nature, 1996, 382, 829-833.	13.7	1,958
5	Purified intercellular adhesion molecule-1 (ICAM-1) is a ligand for lymphocyte function-associated antigen 1 (LFA-1). Cell, 1987, 51, 813-819.	13.5	1,688
6	Impaired B-lymphopoiesis, myelopoiesis, and derailed cerebellar neuron migration in CXCR4- and SDF-1-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9448-9453.	3.3	1,537
7	T-cell receptor cross-linking transiently stimulates adhesiveness through LFA-1. Nature, 1989, 341, 619-624.	13.7	1,525
8	Structural Basis of Integrin Regulation and Signaling. Annual Review of Immunology, 2007, 25, 619-647.	9.5	1,438
9	Mac-1: a macrophage differentiation antigen identified by monoclonal antibody. European Journal of Immunology, 1979, 9, 301-306.	1.6	1,148
10	The Lymphocyte Function Associated LFA-1, CD2, and LFA-3 Molecules: Cell Adhesion Receptors of the Immune System. Annual Review of Immunology, 1987, 5, 223-252.	9.5	1,061
11	Global Conformational Rearrangements in Integrin Extracellular Domains in Outside-In and Inside-Out Signaling. Cell, 2002, 110, 599-611.	13.5	1,050
12	Primary structure of ICAM-1 demonstrates interaction between members of the immunoglobulin and integrin supergene families. Cell, 1988, 52, 925-933.	13.5	943
13	A cell adhesion molecule, ICAM-1, is the major surface receptor for rhinoviruses. Cell, 1989, 56, 849-853.	13.5	853
14	Latent TGF-Î² structure and activation. Nature, 2011, 474, 343-349.	13.7	815
15	Functional cloning of ICAM-2, a cell adhesion ligand for LFA-1 homologous to ICAM-1. Nature, 1989, 339, 61-64.	13.7	800
16	Structural basis for allostery in integrins and binding to fibrinogen-mimetic therapeutics. Nature, 2004, 432, 59-67.	13.7	762
17	Binding of the integrin Mac-1 (CD11b/CD18) to the third immunoglobulin-like domain of ICAM-1 (CD54) and its regulation by glycosylation. Cell, 1991, 65, 961-971.	13.5	757
18	Bidirectional Transmembrane Signaling by Cytoplasmic Domain Separation in Integrins. Science, 2003, 301, 1720-1725.	6.0	714

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19	The arrangement of the immunoglobulin-like domains of ICAM-1 and the binding sites for LFA-1 and rhinovirus. Cell, 1990, 61, 243-254.	13.5	710
20	Lifetime of the P-selectin-carbohydrate bond and its response to tensile force in hydrodynamic flow. Nature, 1995, 374, 539-542.	13.7	657
21	The Chemokine Receptor CXCR4 Is Required for the Retention of B Lineage and Granulocytic Precursors within the Bone Marrow Microenvironment. Immunity, 1999, 10, 463-471.	6.6	635
22	Structure and Function of Leukocyte Integrins. Immunological Reviews, 1990, 114, 181-217.	2.8	612
23	ICAM-1 a ligand for LFA-1-dependent adhesion of B, T and myeloid cells. Nature, 1988, 331, 86-88.	13.7	585
24	The Genome of M. acetivorans Reveals Extensive Metabolic and Physiological Diversity. Genome Research, 2002, 12, 532-542.	2.4	573
25	A transmigratory cup in leukocyte diapedesis both through individual vascular endothelial cells and between them. Journal of Cell Biology, 2004, 167, 377-388.	2.3	573
26	Role of Lymphocyte Adhesion Receptors in Transient Interactions and Cell Locomotion. Annual Review of Immunology, 1991, 9, 27-66.	9.5	541
27	Structures of the Î±L I Domain and Its Complex with ICAM-1 Reveal a Shape-Shifting Pathway for Integrin Regulation. Cell, 2003, 112, 99-111.	13.5	499
28	Mechanoenzymatic Cleavage of the Ultralarge Vascular Protein von Willebrand Factor. Science, 2009, 324, 1330-1334.	6.0	484
29	Integrin avidity regulation: are changes in affinity and conformation underemphasized?. Current Opinion in Cell Biology, 2003, 15, 547-556.	2.6	481
30	Conformational Regulation of Integrin Structure and Function. Annual Review of Biophysics and Biomolecular Structure, 2002, 31, 485-516.	18.3	474
31	The T lymphocyte glycoprotein CD2 binds the cell surface ligand LFA-3. Nature, 1987, 326, 400-403.	13.7	462
32	The dynamic regulation of integrin adhesiveness. Current Biology, 1994, 4, 506-517.	1.8	443
33	Transcellular Diapedesis Is Initiated by Invasive Podosomes. Immunity, 2007, 26, 784-797.	6.6	440
34	Adhesion through L-selectin requires a threshold hydrodynamic shear. Nature, 1996, 379, 266-269.	13.7	434
35	Two antigen-independent adhesion pathways used by human cytotoxic T-cell clones. Nature, 1986, 323, 262-264.	13.7	432
36	Structure of a Complete Integrin Ectodomain in a Physiologic Resting State and Activation and Deactivation by Applied Forces. Molecular Cell, 2008, 32, 849-861.	4.5	429

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37	Sticky sugars for selectins. Nature, 1991, 349, 196-197.	13.7	420
38	RIAM, an Ena/VASP and Profilin Ligand, Interacts with Rap1-GTP and Mediates Rap1-Induced Adhesion. Developmental Cell, 2004, 7, 585-595.	3.1	382
39	The major Fc receptor in blood has a phosphatidylinositol anchor and is deficient in paroxysmal nocturnal haemoglobinuria. Nature, 1988, 333, 565-567.	13.7	378
40	Heterogeneous mutations in the Î² subunit common to the LFA-1, Mac-1, and p150,95 glycoproteins cause leukocyte adhesion deficiency. Cell, 1987, 50, 193-202.	13.5	374
41	THE SMALL SUBUNIT OF HL-A ANTIGENS IS ÃŸ2-MICROGLOBULIN. Journal of Experimental Medicine, 1973, 138, 1608-1612.	4.2	371
42	Integrin inside-out signaling and the immunological synapse. Current Opinion in Cell Biology, 2012, 24, 107-115.	2.6	367
43	von Willebrand factor, Jedi knight of the bloodstream. Blood, 2014, 124, 1412-1425.	0.6	365
44	The Kinetics of L-selectin Tethers and the Mechanics of Selectin-mediated Rolling. Journal of Cell Biology, 1997, 138, 1169-1180.	2.3	340
45	Functional evidence that intercellular adhesion molecule-1 (icam-1) is a ligand for lfa-1d-ependent adhesion in t cell-mediated cytotoxicity. European Journal of Immunology, 1988, 18, 637-640.	1.6	328
46	Integrin activation and structural rearrangement. Immunological Reviews, 2002, 186, 141-163.	2.8	324
47	Structure of integrin Â5Â1 in complex with fibronectin. EMBO Journal, 2003, 22, 4607-4615.	3.5	305
48	Therapeutic antagonists and conformational regulation of integrin function. Nature Reviews Drug Discovery, 2003, 2, 703-716.	21.5	304
49	A soluble form of intercellular adhesion molecule-1 inhibits rhinovirus infection. Nature, 1990, 344, 70-72.	13.7	303
50	Cysteine-rich module structure reveals a fulcrum for integrin rearrangement upon activation. Nature Structural Biology, 2002, 9, 282-287.	9.7	275
51	Structural Biology and Evolution of the TGF-Î² Family. Cold Spring Harbor Perspectives in Biology, 2016, 8, a022103.	2.3	267
52	Integrin structures and conformational signaling. Current Opinion in Cell Biology, 2006, 18, 579-586.	2.6	252
53	A mechanically stabilized receptorâ€“ligand flex-bond important in the vasculature. Nature, 2010, 466, 992-995.	13.7	251
54	Sequence and structure relationships within von Willebrand factor. Blood, 2012, 120, 449-458.	0.6	251

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55	B Lymphocyte Chemotaxis Regulated in Association with Microanatomic Localization, Differentiation State, and B Cell Receptor Engagement. Journal of Experimental Medicine, 1998, 187, 753-762.	4.2	248
56	C-terminal opening mimics 'inside-out' activation of integrin alpha5beta1. Nature Structural Biology, 2001, 8, 412-416.	9.7	239
57	Activation of Leukocyte Î²2 Integrins by Conversion from Bent to Extended Conformations. Immunity, 2006, 25, 583-594.	6.6	233
58	Force interacts with macromolecular structure in activation of TGF-Î². Nature, 2017, 542, 55-59.	13.7	222
59	The primacy of affinity over clustering in regulation of adhesiveness of the integrin Î±LÎ²2. Journal of Cell Biology, 2004, 167, 1241-1253.	2.3	221
60	Anchoring mechanisms for LFA-3 cell adhesion glycoprotein at membrane surface. Nature, 1987, 329, 846-848.	13.7	218
61	LFA-1 and Lyt-2,3, Molecules Associated with T Lymphocyte-Mediated Killing; and Mac-1, an LFA-1 Homologue Associated with Complement Receptor Function1. Immunological Reviews, 1982, 68, 171-196.	2.8	217
62	Role for CCR7 Ligands in the Emigration of Newly Generated T Lymphocytes from the Neonatal Thymus. Immunity, 2002, 16, 205-218.	6.6	216
63	The chemokine receptor CXCR3 mediates rapid and shear-resistant adhesion-induction of effector T lymphocytes by the chemokines IP10 and Mig. European Journal of Immunology, 1998, 28, 961-972.	1.6	215
64	An Automatic Braking System That Stabilizes Leukocyte Rolling by an Increase in Selectin Bond Number with Shear. Journal of Cell Biology, 1999, 144, 185-200.	2.3	208
65	Structural basis for distinctive recognition of fibrinogen Î³C peptide by the platelet integrin Î±IIbÎ²3. Journal of Cell Biology, 2008, 182, 791-800.	2.3	205
66	Implications for familial hypercholesterolemia from the structure of the LDL receptor YWTD-EGF domain pair. Nature Structural Biology, 2001, 8, 499-504.	9.7	201
67	Endothelial Cells Proactively Form Microvilli-Like Membrane Projections upon Intercellular Adhesion Molecule 1 Engagement of Leukocyte LFA-1. Journal of Immunology, 2003, 171, 6135-6144.	0.4	197
68	Changes in subcellular localization and surface expression of L-selectin, alkaline phosphatase, and Mac-1 in human neutrophils during stimulation with inflammatory mediators. Journal of Leukocyte Biology, 1994, 56, 80-87.	1.5	192
69	Complete integrin headpiece opening in eight steps. Journal of Cell Biology, 2013, 201, 1053-1068.	2.3	191
70	The Câ€"C Chemokine MCP-1 Differentially Modulates the Avidity of Î²1 and Î²2 Integrins on T Lymphocytes. Immunity, 1996, 4, 179-187.	6.6	188
71	Immunohistologic analysis of the distribution of cell adhesion molecules within the inflammatory synovial microenvironment. Arthritis and Rheumatism, 1989, 32, 22-30.	6.7	186
72	Monoclonal antibodies as probes for differentiation and tumor-associated antigens: a Forssman specificity on teratocarcinoma stem cells. Cell, 1978, 14, 775-783.	13.5	185

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73	Rolling Adhesion through an Extended Conformation of Integrin Î±LÎ²2 and Relation to Î± I and Î² I-like Domain Interaction. Immunity, 2004, 20, 393-406.	6.6	185
74	An extracellular Î²-propeller module predicted in lipoprotein and scavenger receptors, tyrosine kinases, epidermal growth factor precursor, and extracellular matrix components 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1998, 283, 837-862.	2.0	183
75	Intercellular adhesion molecule-1-deficient mice are less susceptible to cerebral ischemia-reperfusion injury. Annals of Neurology, 1996, 39, 618-624.	2.8	182
76	C-C chemokines, but not the C-X-C chemokines interleukin-8 and interferon-Î³ inducible protein-10, stimulate transendothelial chemotaxis of T lymphocytes. European Journal of Immunology, 1995, 25, 3482-3488.	1.6	180
77	Domains in plexins: links to integrins and transcription factors. Trends in Biochemical Sciences, 1999, 24, 261-263.	3.7	180
78	Structural Evidence for Loose Linkage between Ligand Binding and Kinase Activation in the Epidermal Growth Factor Receptor. Molecular and Cellular Biology, 2010, 30, 5432-5443.	1.1	179
79	Regulation of integrin affinity on cell surfaces. EMBO Journal, 2011, 30, 4712-4727.	3.5	177
80	Plasmodium falciparum-infected erythrocytes bind ICAM-1 at a site distinct from LFA-1, Mac-1, and human rhinovirus. Cell, 1992, 68, 63-69.	13.5	168
81	Structural specializations of A2, a force-sensing domain in the ultralarge vascular protein von Willebrand factor. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9226-9231.	3.3	167
82	Structure of an integrin with an Î±I domain, complement receptor type 4. EMBO Journal, 2010, 29, 666-679.	3.5	164
83	Trans-cellular migration: cellâ€"cell contacts get intimate. Current Opinion in Cell Biology, 2008, 20, 533-540.	2.6	163
84	Epitope Mapping of Antibodies to the C-Terminal Region of the Integrin Î²2 Subunit Reveals Regions that Become Exposed Upon Receptor Activation. Journal of Immunology, 2001, 166, 5629-5637.	0.4	162
85	A Specific Interface between Integrin Transmembrane Helices and Affinity for Ligand. PLoS Biology, 2004, 2, e153.	2.6	162
86	Structural specializations of immunoglobulin superfamily members for adhesion to integrins and viruses. Immunological Reviews, 1998, 163, 197-215.	2.8	161
87	Interrogating the Plasmodium Sporozoite Surface: Identification of Surface-Exposed Proteins and Demonstration of Glycosylation on CSP and TRAP by Mass Spectrometry-Based Proteomics. PLoS Pathogens, 2016, 12, e1005606.	2.1	159
88	Cloning from purified high endothelial venule cells of hevin, a close relative of the antiadhesive extracellular matrix protein SPARC. Immunity, 1995, 2, 113-123.	6.6	154
89	Antigen Recognition Is Facilitated by Invadosome-like Protrusions Formed by Memory/Effector T Cells. Journal of Immunology, 2012, 188, 3686-3699.	0.4	154
90	Coordinated integrin activation by actin-dependent force during T-cell migration. Nature Communications, 2016, 7, 13119.	5.8	154

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91	GARP regulates the bioavailability and activation of TGFÎ². Molecular Biology of the Cell, 2012, 23, 1129-1139.	0.9	153
92	The Sensation and Regulation of Interactions with the Extracellular Environment: The Cell Biology of Lymphocyte Adhesion Receptors. Annual Review of Cell Biology, 1990, 6, 359-402.	26.0	151
93	A Binding Interface on the I Domain of Lymphocyte Function-associated Antigen-1 (LFA-1) Required for Specific Interaction with Intercellular Adhesion Molecule 1 (ICAM-1). Journal of Biological Chemistry, 1995, 270, 19008-19016.	1.6	150
94	Flow-induced elongation of von Willebrand factor precedes tension-dependent activation. Nature Communications, 2017, 8, 324.	5.8	149
95	Association of the Membrane Proximal Regions of the Î± and Î² Subunit Cytoplasmic Domains Constrains an Integrin in the Inactive State. Journal of Biological Chemistry, 2001, 276, 14642-14648.	1.6	143
96	Bistable regulation of integrin adhesiveness by a bipolar metal ion cluster. Nature Structural and Molecular Biology, 2003, 10, 995-1001.	3.6	143
97	The Structure of a Receptor with Two Associating Transmembrane Domains on the Cell Surface: Integrin Î±IIbÎ²3. Molecular Cell, 2009, 34, 234-249.	4.5	142
98	Stabilizing the open conformation of the integrin headpiece with a glycan wedge increases affinity for ligand. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2403-2408.	3.3	139
99	Disrupting integrin transmembrane domain heterodimerization increases ligand binding affinity, not valency or clustering. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3679-3684.	3.3	136
100	Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. Journal of Experimental Medicine, 2008, 205, 195-205.	4.2	133
101	The Three-Dimensional Structure of Integrins and their Ligands, and Conformational Regulation of Cell Adhesion. Advances in Protein Chemistry, 2004, 68, 29-63.	4.4	132
102	Complex between nidogen and laminin fragments reveals a paradigmatic Î²-propeller interface. Nature, 2003, 424, 969-974.	13.7	131
103	Purification and structural characterisation of human HLA-linked B-cell antigens. Nature, 1977, 268, 213-218.	13.7	130
104	A Milieu Molecule for TGF-Î² Required for Microglia Function in the Nervous System. Cell, 2018, 174, 156-171.e16.	13.5	130
105	Prolonged Eosinophil Accumulation in Allergic Lung Interstitium of ICAM-2-Deficient Mice Results in Extended Hyperresponsiveness. Immunity, 1999, 10, 9-19.	6.6	129
106	Small Molecule Integrin Antagonists that Bind to the Î²2 Subunit I-like Domain and Activate Signals in One Direction and Block Them in the Other. Immunity, 2003, 19, 391-402.	6.6	129
107	Structural transitions of complement component C3 and its activation products. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19737-19742.	3.3	128
108	Expression of Stromal-Derived Factor-1 Is Decreased by IL-1 and TNF and in Dermal Wound Healing. Journal of Immunology, 2001, 166, 5749-5754.	0.4	126

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109	Archaeal Surface Layer Proteins Contain Î² Propeller, PKD, and Î² Helix Domains and Are Related to Metazoan Cell Surface Proteins. Structure, 2002, 10, 1453-1464.	1.6	126
110	Simultaneous visualization of the extracellular and cytoplasmic domains of the epidermal growth factor receptor. Nature Structural and Molecular Biology, 2011, 18, 984-989.	3.6	126
111	Integrin extension enables ultrasensitive regulation by cytoskeletal force. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4685-4690.	3.3	125
112	Neutrophil tethering to and rolling on E-selectin are separable by requirement for L-selectin. Immunity, 1994, 1, 137-145.	6.6	124
113	Computational design of an integrin I domain stabilized in the open high affinity conformation. Nature Structural Biology, 2000, 7, 674-678.	9.7	123
114	Importance of Force Linkage in Mechanochemistry of Adhesion Receptors. Biochemistry, 2006, 45, 15020-15028.	1.2	119
115	Kinetics and Thermodynamics of Virus Binding to Receptor.. Journal of Biological Chemistry, 1995, 270, 13216-13224.	1.6	117
116	Crystal structure of ICAM-2 reveals a distinctive integrin recognition surface. Nature, 1997, 387, 312-315.	13.7	115
117	Structural determinants of integrin Î²-subunit specificity for latent TGF-Î². Nature Structural and Molecular Biology, 2014, 21, 1091-1096.	3.6	115
118	Rolling of lymphocytes and neutrophils on peripheral node addressin and subsequent arrest on ICAM-1 in shear flow. European Journal of Immunology, 1995, 25, 1025-1031.	1.6	114
119	Modulation of Endothelial Cell Adhesion by Hevin, an Acidic Protein Associated with High Endothelial Venules. Journal of Biological Chemistry, 1996, 271, 4511-4517.	1.6	113
120	Requirement of open headpiece conformation for activation of leukocyte integrin Î±_XÎ²₂. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14727-14732.	3.3	113
121	Conformational equilibria and intrinsic affinities define integrin activation. EMBO Journal, 2017, 36, 629-645.	3.5	112
122	Relating conformation to function in integrin Î± ₅ Î² ₁. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3872-81.	3.3	110
123	Remodeling of the lectinâ€“EGF-like domain interface in P- and L-selectin increases adhesiveness and shear resistance under hydrodynamic force. Nature Immunology, 2006, 7, 883-889.	7.0	109
124	Overlapping and Selective Roles of Endothelial Intercellular Adhesion Molecule-1 (ICAM-1) and ICAM-2 in Lymphocyte Trafficking. Journal of Immunology, 2003, 171, 2588-2593.	0.4	103
125	Closed headpiece of integrin Î±IIbÎ²3 and its complex with an Î±IIbÎ²3-specific antagonist that does not induce opening. Blood, 2010, 116, 5050-5059.	0.6	103
126	A pH-regulated dimeric bouquet in the structure of von Willebrand factor. EMBO Journal, 2011, 30, 4098-4111.	3.5	102

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127	Structure of bone morphogenetic protein 9 procomplex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3710-3715.	3.3	100
128	Structural specializations of Î±4Î²7, an integrin that mediates rolling adhesion. Journal of Cell Biology, 2012, 196, 131-146.	2.3	97
129	Unexpected fold in the circumsporozoite protein target of malaria vaccines. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7817-7822.	3.3	96
130	Actin retrograde flow actively aligns and orients ligand-engaged integrins in focal adhesions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10648-10653.	3.3	95
131	Conversion between Three Conformational States of Integrin I Domains with a C-Terminal Pull Spring Studied with Molecular Dynamics. Structure, 2004, 12, 2137-2147.	1.6	94
132	Structural Basis for Dimerization of ICAM-1 on the Cell Surface. Molecular Cell, 2004, 14, 269-276.	4.5	94
133	Exposure of acidic residues as a danger signal for recognition of fibrinogen and other macromolecules by integrin ÂXÂ2. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1614-1619.	3.3	91
134	Transition From Rolling to Firm Adhesion Is Regulated by the Conformation of the I Domain of the Integrin Lymphocyte Function-associated Antigen-1. Journal of Biological Chemistry, 2002, 277, 50255-50262.	1.6	90
135	Structure and allosteric regulation of the ÂXÂ2 integrin I domain. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1873-1878.	3.3	90
136	Functional and Structural Stability of the Epidermal Growth Factor Receptor in Detergent Micelles and Phospholipid Nanodiscs. Biochemistry, 2008, 47, 10314-10323.	1.2	89
137	Structural homology of a macrophage differentiation antigen and an antigen involved in T-cell-mediated killing. Nature, 1982, 296, 668-670.	13.7	88
138	Application of encoded library technology (ELT) to a proteinâ€“protein interaction target: Discovery of a potent class of integrin lymphocyte function-associated antigen 1 (LFA-1) antagonists. Bioorganic and Medicinal Chemistry, 2014, 22, 2353-2365.	1.4	88
139	Intersubunit signal transmission in integrins by a receptor-like interaction with a pull spring. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2906-2911.	3.3	87
140	Structural and Functional Studies with Antibodies to the Integrin Î²2 Subunit. Journal of Biological Chemistry, 2000, 275, 21514-21524.	1.6	86
141	Metal ion and ligand binding of integrin Î± ₅ Î² ₁. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17863-17868.	3.3	86
142	Locking the Î²3 Integrin I-like Domain into High and Low Affinity Conformations with Disulfides. Journal of Biological Chemistry, 2004, 279, 10215-10221.	1.6	84
143	Specific and covalent labeling of a membrane protein with organic fluorochromes and quantum dots. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14753-14758.	3.3	83
144	Structural basis for selectin mechanochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 91-96.	3.3	83

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145	Direction of actin flow dictates integrin LFA-1 orientation during leukocyte migration. Nature Communications, 2017, 8, 2047.	5.8	83
146	An internal ligand-bound, metastable state of a leukocyte integrin, Î±XÎ²2. Journal of Cell Biology, 2013, 203, 629-642.	2.3	82
147	Integrin Â3 regions controlling binding of murine mAb 7E3: Implications for the mechanism of integrin ÂIIbÂ3 activation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13114-13120.	3.3	80
148	Complement and the Multifaceted Functions of VWA and Integrin I Domains. Structure, 2006, 14, 1611-1616.	1.6	80
149	Shape change in the receptor for gliding motility in <i>Plasmodium</i> sporozoites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21420-21425.	3.3	78
150	Release of cellular tension signals self-restorative ventral lamellipodia to heal barrier micro-wounds. Journal of Cell Biology, 2013, 201, 449-465.	2.3	78
151	Sequence homology of the LFA-1 and Mac-1 leukocyte adhesion glycoproteins and unexpected relation to leukocyte interferon. Nature, 1985, 314, 540-542.	13.7	76
152	Modifying the mechanical property and shear threshold of L-selectin adhesion independently of equilibrium properties. Nature, 1998, 392, 930-933.	13.7	76
153	Structure-Guided Design of a High-Affinity Platelet Integrin Î± _{IIb} Î² ₃ Receptor Antagonist That Disrupts Mg ²⁺ Binding to the MIDAS. Science Translational Medicine, 2012, 4, 125ra32.	5.8	76
154	Folding and Function of I Domain-deleted Mac-1 and Lymphocyte Function-associated Antigen-1. Journal of Biological Chemistry, 2000, 275, 21877-21882.	1.6	75
155	Rules of engagement between Î±vÎ²6 integrin and foot-and-mouth disease virus. Nature Communications, 2017, 8, 15408.	5.8	75
156	Directed evolution to probe protein allostery and integrin I domains of 200,000-fold higher affinity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5758-5763.	3.3	74
157	Amino Acid Residues in the Î±IIb Subunit That Are Critical for Ligand Binding to Integrin Î±IIbÎ²3 Are Clustered in the Î²-Propeller Model. Journal of Biological Chemistry, 2001, 276, 44275-44283.	1.6	72
158	An atomic resolution view of ICAM recognition in a complex between the binding domains of ICAM-3 and integrin ÂLÂ2. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3366-3371.	3.3	70
159	Mechanisms for Kinase-mediated Dimerization of the Epidermal Growth Factor Receptor. Journal of Biological Chemistry, 2012, 287, 38244-38253.	1.6	70
160	Transendothelial chemotaxis of human Î±Î² and Î³Î´ T lymphocytes to chemokines. European Journal of Immunology, 1998, 28, 104-113.	1.6	69
161	Antigens involved in mouse cytolytic T-lymphocyte (CTL)-mediated killing: Functional screening and topographic relationship. Cellular Immunology, 1982, 73, 1-11.	1.4	68
162	Characterization of transendothelial chemotaxis of T lymphocytes. Journal of Immunological Methods, 1995, 188, 97-116.	0.6	68

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163	Cell-Surface Differentiation in the Mouse. , 1980, , 185-217.		68
164	Tenascin Supports Lymphocyte Rolling. Journal of Cell Biology, 1997, 137, 755-765.	2.3	67
165	Allosteric Î²1 Integrin Antibodies That Stabilize the Low Affinity State by Preventing the Swing-out of the Hybrid Domain. Journal of Biological Chemistry, 2004, 279, 27466-27471.	1.6	67
166	Two-dimensional Kinetics Regulation of Î±LÎ²2-ICAM-1 Interaction by Conformational Changes of the Î±L-Inserted Domain. Journal of Biological Chemistry, 2005, 280, 42207-42218.	1.6	67
167	Î±_VÎ²₃ Integrin Crystal Structures and Their Functional Implications. Biochemistry, 2012, 51, 8814-8828.	1.2	66
168	The structure of immunoglobulin superfamily domains 1 and 2 of MAdCAM-1 reveals novel features important for integrin recognition. Structure, 1998, 6, 793-801.	1.6	64
169	LFA-1 Expression on Target Cells Promotes Human Immunodeficiency Virus Type 1 Infection and Transmission. Journal of Virology, 2001, 75, 1077-1082.	1.5	64
170	Ultrastructure and Function of Dimeric, Soluble Intercellular Adhesion Molecule-1 (ICAM-1). Journal of Biological Chemistry, 2001, 276, 29019-29027.	1.6	62
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