Timothy A Springer

List of Publications by Citations

302 papers	58,455 citations	107 h-index	240 g-index
331 ext. papers	61,957 ext. citations	14.8 avg, IF	7.97 L-index

#	Paper	IF	Citations
302	Traffic signals for lymphocyte recirculation and leukocyte emigration: the multistep paradigm. *Cell*, **1994**, 76, 301-14	56.2	6211
301	Adhesion receptors of the immune system. *Nature*, **1990**, 346, 425-34	50.4	5901
300	Leukocytes roll on a selectin at physiologic flow rates: distinction from and prerequisite for adhesion through integrins. *Cell*, **1991**, 65, 859-73	56.2	1900
299	The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry. *Nature*, **1996**, 382, 829-33	50.4	1754
298	Purified intercellular adhesion molecule-1 (ICAM-1) is a ligand for lymphocyte function-associated antigen 1 (LFA-1). *Cell*, **1987**, 51, 813-9	56.2	1534
297	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, 9448-53	11.5	1418
296	T-cell receptor cross-linking transiently stimulates adhesiveness through LFA-1. *Nature*, **1989**, 341, 619-24	50.4	1400
295	Structural basis of integrin regulation and signaling. *Annual Review of Immunology*, **2007**, 25, 619-47	34.7	1223
294	Mac-1: a macrophage differentiation antigen identified by monoclonal antibody. *European Journal of Immunology*, **1979**, 9, 301-6	6.1	1010
293	The lymphocyte function-associated LFA-1, CD2, and LFA-3 molecules: cell adhesion receptors of the immune system. *Annual Review of Immunology*, **1987**, 5, 223-52	34.7	943
292	Global conformational rearrangements in integrin extracellular domains in outside-in and inside-out signaling. *Cell*, **2002**, 110, 599-11	56.2	934
291	Primary structure of ICAM-1 demonstrates interaction between members of the immunoglobulin and integrin supergene families. *Cell*, **1988**, 52, 925-33	56.2	875
290	A cell adhesion molecule, ICAM-1, is the major surface receptor for rhinoviruses. *Cell*, **1989**, 56, 849-53	56.2	726
289	Functional cloning of ICAM-2, a cell adhesion ligand for LFA-1 homologous to ICAM-1. *Nature*, **1989**, 339, 61-4	50.4	724
288	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, 961-71	56.2	695
287	Structural basis for allostery in integrins and binding to fibrinogen-mimetic therapeutics. *Nature*, **2004**, 432, 59-67	50.4	679
286	Bidirectional transmembrane signaling by cytoplasmic domain separation in integrins. *Science*, **2003** , 301, 1720-5	33.3	650

285	The arrangement of the immunoglobulin-like domains of ICAM-1 and the binding sites for LFA-1 and rhinovirus. *Cell*, **1990**, 61, 243-54	56.2	646
284	Latent TGF-structure and activation. *Nature*, **2011**, 474, 343-9	50.4	628
283	Lifetime of the P-selectin-carbohydrate bond and its response to tensile force in hydrodynamic flow. *Nature*, **1995**, 374, 539-42	50.4	597
282	The chemokine receptor CXCR4 is required for the retention of B lineage and granulocytic precursors within the bone marrow microenvironment. *Immunity*, **1999**, 10, 463-71	32.3	595
281	Structure and function of leukocyte integrins. *Immunological Reviews*, **1990**, 114, 181-217	11.3	560
280	ICAM-1 a ligand for LFA-1-dependent adhesion of B, T and myeloid cells. *Nature*, **1988**, 331, 86-8	50.4	530
279	A transmigratory cup in leukocyte diapedesis both through individual vascular endothelial cells and between them. *Journal of Cell Biology*, **2004**, 167, 377-88	7.3	525
278	The genome of M. acetivorans reveals extensive metabolic and physiological diversity. *Genome Research*, **2002**, 12, 532-42	9.7	487
277	Role of lymphocyte adhesion receptors in transient interactions and cell locomotion. *Annual Review of Immunology*, **1991**, 9, 27-66	34.7	478
276	Structures of the alpha L I domain and its complex with ICAM-1 reveal a shape-shifting pathway for integrin regulation. *Cell*, **2003**, 112, 99-111	56.2	444
275	Integrin avidity regulation: are changes in affinity and conformation underemphasized?. *Current Opinion in Cell Biology*, **2003**, 15, 547-56	9	429
274	The T lymphocyte glycoprotein CD2 binds the cell surface ligand LFA-3. *Nature*, **1987**, 326, 400-3	50.4	427
273	Conformational regulation of integrin structure and function. *Annual Review of Biophysics and Biomolecular Structure*, **2002**, 31, 485-516		422
272	Mechanoenzymatic cleavage of the ultralarge vascular protein von Willebrand factor. *Science*, **2009**, 324, 1330-4	33.3	410
271	The dynamic regulation of integrin adhesiveness. *Current Biology*, **1994**, 4, 506-17	6.3	404
270	Transcellular diapedesis is initiated by invasive podosomes. *Immunity*, **2007**, 26, 784-97	32.3	398
269	Adhesion through L-selectin requires a threshold hydrodynamic shear. *Nature*, **1996**, 379, 266-9	50.4	391
268	Two antigen-independent adhesion pathways used by human cytotoxic T-cell clones. *Nature*, **1986**, 323, 262-4	50.4	386

267	Structure of a complete integrin ectodomain in a physiologic resting state and activation and deactivation by applied forces. *Molecular Cell*, **2008**, 32, 849-61	17.6	381
266	The small subunit of HL-A antigens is beta 2-microglobulin. *Journal of Experimental Medicine*, **1973**, 138, 1608-12	16.6	342
265	Heterogeneous mutations in the beta subunit common to the LFA-1, Mac-1, and p150,95 glycoproteins cause leukocyte adhesion deficiency. *Cell*, **1987**, 50, 193-202	56.2	335
264	RIAM, an Ena/VASP and Profilin ligand, interacts with Rap1-GTP and mediates Rap1-induced adhesion. *Developmental Cell*, **2004**, 7, 585-95	10.2	332
263	The major Fc receptor in blood has a phosphatidylinositol anchor and is deficient in paroxysmal nocturnal haemoglobinuria. *Nature*, **1988**, 333, 565-7	50.4	322
262	The kinetics of L-selectin tethers and the mechanics of selectin-mediated rolling. *Journal of Cell Biology*, **1997**, 138, 1169-80	7.3	318
261	Functional evidence that intercellular adhesion molecule-1 (ICAM-1) is a ligand for LFA-1-dependent adhesion in T cell-mediated cytotoxicity. *European Journal of Immunology*, **1988**, 18, 637-40	6.1	305
260	Integrin activation and structural rearrangement. *Immunological Reviews*, **2002**, 186, 141-63	11.3	288
259	Structure of integrin alpha5beta1 in complex with fibronectin. *EMBO Journal*, **2003**, 22, 4607-15	13	272
258	A soluble form of intercellular adhesion molecule-1 inhibits rhinovirus infection. *Nature*, **1990**, 344, 70-2	50.4	262
257	Integrin inside-out signaling and the immunological synapse. *Current Opinion in Cell Biology*, **2012**, 24, 107-15	9	261
256	Therapeutic antagonists and conformational regulation of integrin function. *Nature Reviews Drug Discovery*, **2003**, 2, 703-16	64.1	254
255	Cysteine-rich module structure reveals a fulcrum for integrin rearrangement upon activation. *Nature Structural Biology*, **2002**, 9, 282-7		251
254	von Willebrand factor, Jedi knight of the bloodstream. *Blood*, **2014**, 124, 1412-25	2.2	248
253	B lymphocyte chemotaxis regulated in association with microanatomic localization, differentiation state, and B cell receptor engagement. *Journal of Experimental Medicine*, **1998**, 187, 753-62	16.6	233
252	C-terminal opening mimics 'inside-out' activation of integrin alpha5beta1. *Nature Structural Biology*, **2001**, 8, 412-6		215
251	Integrin structures and conformational signaling. *Current Opinion in Cell Biology*, **2006**, 18, 579-86	9	213
250	A mechanically stabilized receptor-ligand flex-bond important in the vasculature. *Nature*, **2010**, 466, 992-5	50.4	209

249	The primacy of affinity over clustering in regulation of adhesiveness of the integrin {alpha}L{beta}2. *Journal of Cell Biology*, **2004**, 167, 1241-53	7.3	208
248	Activation of leukocyte beta2 integrins by conversion from bent to extended conformations. *Immunity*, **2006**, 25, 583-94	32.3	204
247	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, 961-72	6.1	202
246	Sequence and structure relationships within von Willebrand factor. *Blood*, **2012**, 120, 449-58	2.2	200
245	Anchoring mechanisms for LFA-3 cell adhesion glycoprotein at membrane surface. *Nature*, **1987**, 329, 846-8	50.4	194
244	LFA-1 and Lyt-2,3, molecules associated with T lymphocyte-mediated killing; and Mac-1, an LFA-1 homologue associated with complement receptor function. *Immunological Reviews*, **1982**, 68, 171-95	11.3	192
243	Role for CCR7 ligands in the emigration of newly generated T lymphocytes from the neonatal thymus. *Immunity*, **2002**, 16, 205-18	32.3	189
242	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	7.3	189
241	Structural basis for distinctive recognition of fibrinogen gammaC peptide by the platelet integrin alphaIIbbeta3. *Journal of Cell Biology*, **2008**, 182, 791-800	7.3	183
240	The C-C chemokine MCP-1 differentially modulates the avidity of beta 1 and beta 2 integrins on T lymphocytes. *Immunity*, **1996**, 4, 179-87	32.3	182
239	Endothelial cells proactively form microvilli-like membrane projections upon intercellular adhesion molecule 1 engagement of leukocyte LFA-1. *Journal of Immunology*, **2003**, 171, 6135-44	5.3	181
238	Implications for familial hypercholesterolemia from the structure of the LDL receptor YWTD-EGF domain pair. *Nature Structural Biology*, **2001**, 8, 499-504		180
237	Immunohistologic analysis of the distribution of cell adhesion molecules within the inflammatory synovial microenvironment. *Arthritis and Rheumatism*, **1989**, 32, 22-30		180
236	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, 80-7	6.5	170
235	C-C chemokines, but not the C-X-C chemokines interleukin-8 and interferon-gamma inducible protein-10, stimulate transendothelial chemotaxis of T lymphocytes. *European Journal of Immunology*, **1995**, 25, 3482-8	6.1	170
234	Rolling adhesion through an extended conformation of integrin alphaLbeta2 and relation to alpha I and beta I-like domain interaction. *Immunity*, **2004**, 20, 393-406	32.3	169
233	An extracellular beta-propeller module predicted in lipoprotein and scavenger receptors, tyrosine kinases, epidermal growth factor precursor, and extracellular matrix components. *Journal of Molecular Biology*, **1998**, 283, 837-62	6.5	169
232	Monoclonal antibodies as probes for differentiation and tumor-associated antigens: a Forssman specificity on teratocarcinoma stem cells. *Cell*, **1978**, 14, 775-83	56.2	169

231	Intercellular adhesion molecule-1-deficient mice are less susceptible to cerebral ischemia-reperfusion injury. *Annals of Neurology*, **1996**, 39, 618-24	9.4	163
230	Structural Biology and Evolution of the TGF-Family. *Cold Spring Harbor Perspectives in Biology*, **2016**, 8,	10.2	156
229	Domains in plexins: links to integrins and transcription factors. *Trends in Biochemical Sciences*, **1999**, 24, 261-3	10.3	156
228	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, 9226-31	11.5	153
227	Plasmodium falciparum-infected erythrocytes bind ICAM-1 at a site distinct from LFA-1, Mac-1, and human rhinovirus. *Cell*, **1992**, 68, 63-9	56.2	151
226	Complete integrin headpiece opening in eight steps. *Journal of Cell Biology*, **2013**, 201, 1053-68	7.3	147
225	Structural specializations of immunoglobulin superfamily members for adhesion to integrins and viruses. *Immunological Reviews*, **1998**, 163, 197-215	11.3	146
224	Structural evidence for loose linkage between ligand binding and kinase activation in the epidermal growth factor receptor. *Molecular and Cellular Biology*, **2010**, 30, 5432-43	4.8	144
223	Trans-cellular migration: cell-cell contacts get intimate. *Current Opinion in Cell Biology*, **2008**, 20, 533-40	9	144
222	A specific interface between integrin transmembrane helices and affinity for ligand. *PLoS Biology*, **2004**, 2, e153	9.7	143
221	Epitope mapping of antibodies to the C-terminal region of the integrin beta 2 subunit reveals regions that become exposed upon receptor activation. *Journal of Immunology*, **2001**, 166, 5629-37	5.3	139
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219	Cloning from purified high endothelial venule cells of hevin, a close relative of the antiadhesive extracellular matrix protein SPARC. *Immunity*, **1995**, 2, 113-23	32.3	139
218	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		139
217	Force interacts with macromolecular structure in activation of TGF- *Nature*, **2017**, 542, 55-59	50.4	138
216	Structure of an integrin with an alphaI domain, complement receptor type 4. *EMBO Journal*, **2010**, 29, 666-79	13	138
215	Association of the membrane proximal regions of the alpha and beta subunit cytoplasmic domains constrains an integrin in the inactive state. *Journal of Biological Chemistry*, **2001**, 276, 14642-8	5.4	132
214	Regulation of integrin affinity on cell surfaces. *EMBO Journal*, **2011**, 30, 4712-27	13	129

213	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, 3679-84	11.5	129
212	The structure of a receptor with two associating transmembrane domains on the cell surface: integrin alphaIIbbeta3. *Molecular Cell*, **2009**, 34, 234-49	17.6	127
211	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, 2403-8	11.5	125
210	Small molecule integrin antagonists that bind to the beta2 subunit I-like domain and activate signals in one direction and block them in the other. *Immunity*, **2003**, 19, 391-402	32.3	123
209	Purification and structural characterisation of human HLA-linked B-cell antigens. *Nature*, **1977**, 268, 213-8	50.4	122
208	Bistable regulation of integrin adhesiveness by a bipolar metal ion cluster. *Nature Structural and Molecular Biology*, **2003**, 10, 995-1001	17.6	121
207	Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. *Journal of Experimental Medicine*, **2008**, 205, 195-205	16.6	119
206	The three-dimensional structure of integrins and their ligands, and conformational regulation of cell adhesion. *Advances in Protein Chemistry*, **2004**, 68, 29-63		119
205	Expression of stromal-derived factor-1 is decreased by IL-1 and TNF and in dermal wound healing. *Journal of Immunology*, **2001**, 166, 5749-54	5.3	118
204	Complex between nidogen and laminin fragments reveals a paradigmatic beta-propeller interface. *Nature*, **2003**, 424, 969-74	50.4	115
203	GARP regulates the bioavailability and activation of TGF *Molecular Biology of the Cell*, **2012**, 23, 1129-39	5.5	112
202	Neutrophil tethering to and rolling on E-selectin are separable by requirement for L-selectin. *Immunity*, **1994**, 1, 137-45	32.3	112
201	Coordinated integrin activation by actin-dependent force during T-cell migration. *Nature Communications*, **2016**, 7, 13119	17.4	111
200	Archaeal surface layer proteins contain beta propeller, PKD, and beta helix domains and are related to metazoan cell surface proteins. *Structure*, **2002**, 10, 1453-64	5.2	111
199	Computational design of an integrin I domain stabilized in the open high affinity conformation. *Nature Structural Biology*, **2000**, 7, 674-8		111
198	Antigen recognition is facilitated by invadosome-like protrusions formed by memory/effector T cells. *Journal of Immunology*, **2012**, 188, 3686-99	5.3	108
197	Prolonged eosinophil accumulation in allergic lung interstitium of ICAM-2 deficient mice results in extended hyperresponsiveness. *Immunity*, **1999**, 10, 9-19	32.3	107
196	Rolling of lymphocytes and neutrophils on peripheral node addressin and subsequent arrest on ICAM-1 in shear flow. *European Journal of Immunology*, **1995**, 25, 1025-31	6.1	107

195	Crystal structure of ICAM-2 reveals a distinctive integrin recognition surface. *Nature*, **1997**, 387, 312-5	50.4	105
194	Importance of force linkage in mechanochemistry of adhesion receptors. *Biochemistry*, **2006**, 45, 15020-8	3.2	105
193	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	7.6	105
192	Modulation of endothelial cell adhesion by hevin, an acidic protein associated with high endothelial venules. *Journal of Biological Chemistry*, **1996**, 271, 4511-7	5.4	104
191	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, 19737-42	11.5	102
190	Simultaneous visualization of the extracellular and cytoplasmic domains of the epidermal growth factor receptor. *Nature Structural and Molecular Biology*, **2011**, 18, 984-9	17.6	101
189	Remodeling of the lectin-EGF-like domain interface in P- and L-selectin increases adhesiveness and shear resistance under hydrodynamic force. *Nature Immunology*, **2006**, 7, 883-9	19.1	99
188	Overlapping and selective roles of endothelial intercellular adhesion molecule-1 (ICAM-1) and ICAM-2 in lymphocyte trafficking. *Journal of Immunology*, **2003**, 171, 2588-93	5.3	96
187	Kinetics and thermodynamics of virus binding to receptor. Studies with rhinovirus, intercellular adhesion molecule-1 (ICAM-1), and surface plasmon resonance. *Journal of Biological Chemistry*, **1995**, 270, 13216-24	5.4	92
186	Conversion between three conformational states of integrin I domains with a C-terminal pull spring studied with molecular dynamics. *Structure*, **2004**, 12, 2137-47	5.2	89
185	Flow-induced elongation of von Willebrand factor precedes tension-dependent activation. *Nature Communications*, **2017**, 8, 324	17.4	88
184	Requirement of open headpiece conformation for activation of leukocyte integrin alphaXbeta2. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14727-32	11.5	88
183	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, 2906-11	11.5	86
182	Closed headpiece of integrin IIb3 and its complex with an IIb3-specific antagonist that does not induce opening. *Blood*, **2010**, 116, 5050-9	2.2	85
181	Exposure of acidic residues as a danger signal for recognition of fibrinogen and other macromolecules by integrin alphaXbeta2. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 1614-9	11.5	85
180	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	11.5	83
179	Structural determinants of integrin -subunit specificity for latent TGF- *Nature Structural and Molecular Biology*, **2014**, 21, 1091-6	17.6	82
178	Locking the beta3 integrin I-like domain into high and low affinity conformations with disulfides. *Journal of Biological Chemistry*, **2004**, 279, 10215-21	5.4	82

177	Structure and allosteric regulation of the alpha X beta 2 integrin I domain. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 1873-8	11.5	82
176	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, 50255-62	5.4	82
175	Structural and functional studies with antibodies to the integrin beta 2 subunit. A model for the I-like domain. *Journal of Biological Chemistry*, **2000**, 275, 21514-24	5.4	82
174	A Milieu Molecule for TGF-□Required for Microglia Function in the Nervous System. *Cell*, **2018**, 174, 156-171.e16	36.2	81
173	Functional and structural stability of the epidermal growth factor receptor in detergent micelles and phospholipid nanodiscs. *Biochemistry*, **2008**, 47, 10314-23	3.2	81
172	Conformational equilibria and intrinsic affinities define integrin activation. *EMBO Journal*, **2017**, 36, 629-645	9.4	80
171	Structural basis for dimerization of ICAM-1 on the cell surface. *Molecular Cell*, **2004**, 14, 269-76	17.6	79
170	Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. *Journal of Experimental Medicine*, **2008**, 205, 993-993	16.6	78
169	Application of encoded library technology (ELT) to a protein-protein interaction target: discovery of a potent class of integrin lymphocyte function-associated antigen 1 (LFA-1) antagonists. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 2353-65	3.4	77
168	Structural homology of a macrophage differentiation antigen and an antigen involved in T-cell-mediated killing. *Nature*, **1982**, 296, 668-70	50.4	77
167	Structure of bone morphogenetic protein 9 procomplex. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3710-5	11.5	76
166	A pH-regulated dimeric bouquet in the structure of von Willebrand factor. *EMBO Journal*, **2011**, 30, 4098-111	13	76
165	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, 14753-8	11.5	76
164	Relating conformation to function in integrin 5□1. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E3872-81	11.5	75
163	Integrin beta3 regions controlling binding of murine mAb 7E3: implications for the mechanism of integrin alphaIIbbeta3 activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 13114-20	11.5	74
162	Structural specializations of (4)□(7), an integrin that mediates rolling adhesion. *Journal of Cell Biology*, **2012**, 196, 131-46	7.3	73
161	Structural basis for selectin mechanochemistry. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 91-6	11.5	69
160	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, 7817-22	11.5	69

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158	Release of cellular tension signals self-restorative ventral lamellipodia to heal barrier micro-wounds. *Journal of Cell Biology*, **2013**, 201, 449-65	7.3	67
157	Structure-guided design of a high-affinity platelet integrin IIb3 receptor antagonist that disrupts Mg2+ binding to the MIDAS. *Science Translational Medicine*, **2012**, 4, 125ra32	17.5	67
156	Modifying the mechanical property and shear threshold of L-selectin adhesion independently of equilibrium properties. *Nature*, **1998**, 392, 930-3	50.4	67
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153	Transendothelial chemotaxis of human alpha/beta and gamma/delta T lymphocytes to chemokines. *European Journal of Immunology*, **1998**, 28, 104-13	6.1	64
152	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, 5758-63	11.5	63
151	An atomic resolution view of ICAM recognition in a complex between the binding domains of ICAM-3 and integrin alphaLbeta2. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3366-71	11.5	63
150	LFA-1 expression on target cells promotes human immunodeficiency virus type 1 infection and transmission. *Journal of Virology*, **2001**, 75, 1077-82	6.6	63
149	Sequence homology of the LFA-1 and Mac-1 leukocyte adhesion glycoproteins and unexpected relation to leukocyte interferon. *Nature*, **1985**, 314, 540-2	50.4	63
148	Two-dimensional kinetics regulation of alphaLbeta2-ICAM-1 interaction by conformational changes of the alphaL-inserted domain. *Journal of Biological Chemistry*, **2005**, 280, 42207-18	5.4	61
147	Amino acid residues in the alpha IIb subunit that are critical for ligand binding to integrin alpha IIbbeta 3 are clustered in the beta-propeller model. *Journal of Biological Chemistry*, **2001**, 276, 44275-83	5.4	61
146	Characterization of transendothelial chemotaxis of T lymphocytes. *Journal of Immunological Methods*, **1995**, 188, 97-116	2.5	61
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144	Allosteric beta1 integrin antibodies that stabilize the low affinity state by preventing the swing-out of the hybrid domain. *Journal of Biological Chemistry*, **2004**, 279, 27466-71	5.4	60
143	Cell-Surface Differentiation in the Mouse **1980**, 185-217		60
142	Mechanisms for kinase-mediated dimerization of the epidermal growth factor receptor. *Journal of Biological Chemistry*, **2012**, 287, 38244-53	5.4	59

141	An internal ligand-bound, metastable state of a leukocyte integrin, αXβ2. *Journal of Cell Biology*, **2013**, 203, 629-42	7.3	57
140	Activation of integrin beta-subunit I-like domains by one-turn C-terminal alpha-helix deletions. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 2333-8	11.5	56
139	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	11.5	55
138	Direction of actin flow dictates integrin LFA-1 orientation during leukocyte migration. *Nature Communications*, **2017**, 8, 2047	17.4	55
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135	Rules of engagement between αvβ6 integrin and foot-and-mouth disease virus. *Nature Communications*, **2017**, 8, 15408	17.4	54
134	αV)β(3) integrin crystal structures and their functional implications. *Biochemistry*, **2012**, 51, 8814-28	3.2	54
133	Transmission of allostery through the lectin domain in selectin-mediated cell adhesion. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 85-90	11.5	54
132	Purified lymphocyte function-associated antigen-3 and T11 target structure are active in CD2-mediated T cell stimulation. *European Journal of Immunology*, **1987**, 17, 1847-50	6.1	54
131	The structure of immunoglobulin superfamily domains 1 and 2 of MAdCAM-1 reveals novel features important for integrin recognition. *Structure*, **1998**, 6, 793-801	5.2	53
130	Transition from rolling to firm adhesion can be mimicked by extension of integrin alphaLbeta2 in an intermediate affinity state. *Journal of Biological Chemistry*, **2006**, 281, 10876-82	5.4	53
129	Shape change in the receptor for gliding motility in Plasmodium sporozoites. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 21420-5	11.5	52
128	Contribution of N-linked glycans to the conformation and function of intercellular adhesion molecules (ICAMs). *Journal of Biological Chemistry*, **2005**, 280, 5854-61	5.4	52
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