

Sanford J Shattil

List of Publications by Year in descending order

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71
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50276

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73
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docs citations

73
times ranked

8544
citing authors

#	ARTICLE	IF	CITATIONS
1	Talin Binding to Integrin α Tails: A Final Common Step in Integrin Activation. <i>Science</i> , 2003, 302, 103-106.	12.6	1,079
2	The final steps of integrin activation: the end game. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 288-300.	37.0	888
3	Breaking the Integrin Hinge. <i>Journal of Biological Chemistry</i> , 1996, 271, 6571-6574.	3.4	518
4	Integrins: dynamic scaffolds for adhesion and signaling in platelets. <i>Blood</i> , 2004, 104, 1606-1615.	1.4	492
5	Src kinase activation by direct interaction with the integrin α cytoplasmic domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13298-13302.	7.1	487
6	Integrin regulation. <i>Current Opinion in Cell Biology</i> , 2005, 17, 509-516.	5.4	421
7	Reconstructing and Deconstructing Agonist-Induced Activation of Integrin α IIb β 3. <i>Current Biology</i> , 2006, 16, 1796-1806.	3.9	419
8	Integrins and Actin Filaments: Reciprocal Regulation of Cell Adhesion and Signaling. <i>Journal of Biological Chemistry</i> , 2000, 275, 22607-22610.	3.4	413
9	Coordinate interactions of Csk, Src, and Syk kinases with α IIb β 3 initiate integrin signaling to the cytoskeleton. <i>Journal of Cell Biology</i> , 2002, 157, 265-275.	5.2	382
10	Integrin-based therapeutics: biological basis, clinical use and new drugs. <i>Nature Reviews Drug Discovery</i> , 2016, 15, 173-183.	46.4	324
11	The GPIIb/IIIa (integrin α IIb β 3) odyssey: a technology-driven saga of a receptor with twists, turns, and even a bend. <i>Blood</i> , 2008, 112, 3011-3025.	1.4	310
12	An integrin α v β 3 β -c-Src oncogenic unit promotes anchorage-independence and tumor progression. <i>Nature Medicine</i> , 2009, 15, 1163-1169.	30.7	250
13	Complementary Roles for Receptor Clustering and Conformational Change in the Adhesive and Signaling Functions of Integrin α IIb β 3. <i>Journal of Cell Biology</i> , 1998, 141, 1685-1695.	5.2	224
14	Megakaryocytes derived from embryonic stem cells implicate CalDAG-GEFI in integrin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12819-12824.	7.1	189
15	Identification of a novel integrin signaling pathway involving the kinase Syk and the guanine nucleotide exchange factor Vav1. <i>Current Biology</i> , 1998, 8, 1289-1299.	3.9	183
16	Signaling through GP Ib-IX-V activates α IIb β 3 independently of other receptors. <i>Blood</i> , 2004, 103, 3403-3411.	1.4	170
17	Relationships between Rap1b, Affinity Modulation of Integrin α IIb β 3, and the Actin Cytoskeleton. <i>Journal of Biological Chemistry</i> , 2002, 277, 25715-25721.	3.4	165
18	Genetic and Pharmacological Analyses of Syk Function in α IIb β 3 Signaling in Platelets. <i>Blood</i> , 1999, 93, 2645-2652.	1.4	162

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19	Activation of Syk protein tyrosine kinase through interaction with integrin β_2 cytoplasmic domains. <i>Current Biology</i> , 2001, 11, 1799-1804.	3.9	151
20	Mechanisms and Consequences of Affinity Modulation of Integrin β_3 Detected with a Novel Patch-engineered Monovalent Ligand. <i>Journal of Biological Chemistry</i> , 1999, 274, 21609-21616.	3.4	148
21	Mechanisms and consequences of agonist-induced talin recruitment to platelet integrin β_3 . <i>Journal of Cell Biology</i> , 2008, 181, 1211-1222.	5.2	145
22	Matrix-specific Suppression of Integrin Activation in Shear Stress Signaling. <i>Molecular Biology of the Cell</i> , 2006, 17, 4686-4697.	2.1	139
23	The Mechanism of Kindlin-Mediated Activation of Integrin β_3 . <i>Current Biology</i> , 2013, 23, 2288-2295.	3.9	131
24	Platelet integrins and immunoreceptors. <i>Immunological Reviews</i> , 2007, 218, 247-264.	6.0	123
25	The Classical Lancefield Antigen of Group A Streptococcus Is a Virulence Determinant with Implications for Vaccine Design. <i>Cell Host and Microbe</i> , 2014, 15, 729-740.	11.0	121
26	Integrins and Src: dynamic duo of adhesion signaling. <i>Trends in Cell Biology</i> , 2005, 15, 399-403.	7.9	116
27	The antithrombotic potential of selective blockade of talin-dependent integrin β_3 (platelet GPIIb/IIIa) activation. <i>Journal of Clinical Investigation</i> , 2007, 117, 2250-2259.	8.2	115
28	RhoA and the Function of Platelet Integrin β_3 . <i>Blood</i> , 1998, 91, 4206-4215.	1.4	113
29	The N-terminal SH2 Domains of Syk and ZAP-70 Mediate Phosphotyrosine-independent Binding to Integrin β_2 Cytoplasmic Domains. <i>Journal of Biological Chemistry</i> , 2002, 277, 39401-39408.	3.4	110
30	Regulation of Outside-in Signaling in Platelets by Integrin-associated Protein Kinase ζ . <i>Journal of Biological Chemistry</i> , 2005, 280, 644-653.	3.4	109
31	The Molecular Adapter SLP-76 Relays Signals from Platelet Integrin β_3 to the Actin Cytoskeleton. <i>Journal of Biological Chemistry</i> , 2001, 276, 5916-5923.	3.4	101
32	PTP-1B is an essential positive regulator of platelet integrin signaling. <i>Journal of Cell Biology</i> , 2005, 170, 837-845.	5.2	101
33	Kindlin-2 regulates podocyte adhesion and fibronectin matrix deposition through interactions with phosphoinositides and integrins. <i>Journal of Cell Science</i> , 2011, 124, 879-891.	2.0	92
34	Differential Requirement for LAT and SLP-76 in GPVI versus T Cell Receptor Signaling. <i>Journal of Experimental Medicine</i> , 2002, 195, 705-717.	8.5	91
35	Specification of the Direction of Adhesive Signaling by the Integrin β_2 Cytoplasmic Domain. <i>Journal of Biological Chemistry</i> , 2005, 280, 29699-29707.	3.4	91
36	Primary Megakaryocytes Reveal a Role for Transcription Factor Nf-E2 in Integrin β_3 Signaling. <i>Journal of Cell Biology</i> , 1999, 147, 1419-1430.	5.2	87

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37	Evidence for the Requirement of ITAM Domains but Not SLP-76/Gads Interaction for Integrin Signaling in Hematopoietic Cells. <i>Molecular and Cellular Biology</i> , 2006, 26, 6936-6949.	2.3	84
38	Cyclic GMP and Protein Kinase G Control a Src-Containing Mechanosome in Osteoblasts. <i>Science Signaling</i> , 2010, 3, ra91.	3.6	80
39	Integrin $\alpha 5 \beta 3$ Drives Slug Activation and Stemness in the Pregnant and Neoplastic Mammary Gland. <i>Developmental Cell</i> , 2014, 30, 295-308.	7.0	80
40	Detection of Integrin $\alpha 5 \beta 3$ Clustering in Living Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 15217-15224.	3.4	73
41	Proximal, selective, and dynamic interactions between integrin $\alpha 5 \beta 3$ and protein tyrosine kinases in living cells. <i>Journal of Cell Biology</i> , 2004, 165, 305-311.	5.2	69
42	ADAP interactions with talin and kindlin promote platelet integrin $\alpha 5 \beta 3$ activation and stable fibrinogen binding. <i>Blood</i> , 2014, 123, 3156-3165.	1.4	66
43	The Primacy of $\alpha 5$ Integrin Activation in the Metastatic Cascade. <i>PLoS ONE</i> , 2012, 7, e46576.	2.5	61
44	ADAP is required for normal $\alpha 5 \beta 3$ activation by VWF/GP Ib-IX-V and other agonists. <i>Blood</i> , 2007, 109, 1018-1025.	1.4	59
45	Antithrombotic effects of targeting $\alpha 5 \beta 3$ signaling in platelets. <i>Blood</i> , 2009, 113, 3585-3592.	1.4	52
46	Kindlins, Integrin Activation and the Regulation of Talin Recruitment to $\alpha 5 \beta 3$. <i>PLoS ONE</i> , 2012, 7, e34056.	2.5	49
47	uPAR isoform 2 forms a dimer and induces severe kidney disease in mice. <i>Journal of Clinical Investigation</i> , 2019, 129, 1946-1959.	8.2	48
48	Role for ADAP in shear flow-induced platelet mechanotransduction. <i>Blood</i> , 2010, 115, 2274-2282.	1.4	45
49	Interaction of kindlin-2 with integrin $\alpha 5 \beta 3$ promotes outside-in signaling responses by the $\alpha 5 \beta 3$ vitronectin receptor. <i>Blood</i> , 2015, 125, 1995-2004.	1.4	32
50	Rap1 binding to the talin 1 FO domain makes a minimal contribution to murine platelet GPIIb-IIIa activation. <i>Blood Advances</i> , 2018, 2, 2358-2368.	5.2	30
51	Not Just Another Pretty Face: Regulation of Platelet Function at the Cytoplasmic Face of Integrin $\alpha 5 \beta 3$. <i>Thrombosis and Haemostasis</i> , 1997, 78, 220-225.	3.4	28
52	Differences in Regulation of <i>Drosophila</i> and Vertebrate Integrin Affinity by Talin. <i>Molecular Biology of the Cell</i> , 2008, 19, 3589-3598.	2.1	26
53	The zebrafish vitronectin receptor: Characterization of integrin $\alpha 5 \beta 3$ and $\alpha 5 \beta 3$ expression patterns in early vertebrate development. <i>Developmental Dynamics</i> , 2007, 236, 2268-2276.	1.8	23
54	Group IVA cytosolic phospholipase A2 (cPLA2) and integrin $\alpha 5 \beta 3$ reinforce each other's functions during $\alpha 5 \beta 3$ signaling in platelets. <i>Blood</i> , 2009, 113, 447-457.	1.4	23

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55	SHARPIN at the nexus of integrin, immune, and inflammatory signaling in human platelets. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4983-4988.	7.1	23
56	Underlying Immune Disorder May Predispose Some Transthyretin Amyloidosis Subjects to Inotersen-Mediated Thrombocytopenia. Nucleic Acid Therapeutics, 2020, 30, 94-103.	3.6	22
57	Ligand binding to integrin $\alpha_v\beta_3$ requires tyrosine 178 in the α_v subunit. Blood, 2001, 97, 175-182.	1.4	19
58	Optogenetic interrogation of integrin $\alpha_V\beta_3$ function in endothelial cells. Journal of Cell Science, 2017, 130, 3532-3541.	2.0	17
59	Genetic and Pharmacological Analyses of Syk Function in $\alpha\text{IIb}\beta_3$ Signaling in Platelets. Blood, 1999, 93, 2645-2652.	1.4	16
60	Protein-Protein Interactions in Platelet $\alpha\text{IIb}\beta_3$ Signaling. Seminars in Thrombosis and Hemostasis, 2004, 30, 427-439.	2.7	15
61	C-terminal COOH of Integrin β_1 Is Necessary for β_1 Association with the Kindlin-2 Adapter Protein. Journal of Biological Chemistry, 2014, 289, 11183-11193.	3.4	10
62	Platelet membrane proteins as adhesion receptors. , 2002, , 80-92.		10
63	Regulation of Platelet Adhesion Receptors. , 2017, , 69-84.		5
64	Optogenetics-based localization of talin to the plasma membrane promotes activation of β_3 integrins. Journal of Biological Chemistry, 2021, 296, 100675.	3.4	5
65	Outside-In Signaling by Integrin $\alpha\text{IIb}\beta_3$. , 2007, , 347-357.		3
66	Platelet SHARPIN regulates platelet adhesion and inflammatory responses through associations with $\alpha\text{IIb}\beta_3$ and LUBAC. Blood Advances, 2022, 6, 2595-2607.	5.2	3
67	Cytosolic Phospholipase A2 \pm (cPLA2 \pm) Functions at the Nexus of Bidirectional Integrin Signaling in Platelets.. Blood, 2007, 110, 136-136.	1.4	2
68	Genetic Instruction of Megakaryocytes and Platelets Derived from Human Induced Pluripotent Stem Cells for Studies of Integrin Regulation. Methods in Molecular Biology, 2021, 2217, 237-249.	0.9	1
69	The T Cell Receptor SLAPs Integrins Together. Nature Immunology, 2001, 2, 904-905.	14.5	0
70	Megakaryocytes Derived from Human Embryonic Stem Cells: A Genetically Tractable System To Study Megakaryocytopoiesis and Integrin Function. Blood, 2005, 106, 1642-1642.	1.4	0
71	ADAPtation of Platelet Integrin $\alpha\text{IIb}\beta_3$ to Inside-Out Activation Signals. Blood, 2011, 118, 188-188.	1.4	0