

Sanford J Shattil

List of Publications by Year in descending order

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71
papers

10,239
citations

50244

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106281

65
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73
all docs

73
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. | 6.0 | 1,079 |
| 2 | The final steps of integrin activation: the end game. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 288-300. | 16.1 | 888 |
| 3 | Breaking the Integrin Hinge. <i>Journal of Biological Chemistry</i> , 1996, 271, 6571-6574. | 1.6 | 518 |
| 4 | Integrins: dynamic scaffolds for adhesion and signaling in platelets. <i>Blood</i> , 2004, 104, 1606-1615. | 0.6 | 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. | 3.3 | 487 |
| 6 | Integrin regulation. <i>Current Opinion in Cell Biology</i> , 2005, 17, 509-516. | 2.6 | 421 |
| 7 | Reconstructing and Deconstructing Agonist-Induced Activation of Integrin α IIb β 3. <i>Current Biology</i> , 2006, 16, 1796-1806. | 1.8 | 419 |
| 8 | Integrins and Actin Filaments: Reciprocal Regulation of Cell Adhesion and Signaling. <i>Journal of Biological Chemistry</i> , 2000, 275, 22607-22610. | 1.6 | 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. | 2.3 | 382 |
| 10 | Integrin-based therapeutics: biological basis, clinical use and new drugs. <i>Nature Reviews Drug Discovery</i> , 2016, 15, 173-183. | 21.5 | 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. | 0.6 | 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. | 15.2 | 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. | 2.3 | 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. | 3.3 | 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. | 1.8 | 183 |
| 16 | Signaling through GP Ib-IX-V activates α IIb β 3 independently of other receptors. <i>Blood</i> , 2004, 103, 3403-3411. | 0.6 | 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. | 1.6 | 165 |
| 18 | Genetic and Pharmacological Analyses of Syk Function in α IIb β 3 Signaling in Platelets. <i>Blood</i> , 1999, 93, 2645-2652. | 0.6 | 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. | 1.8 | 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. | 1.6 | 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. | 2.3 | 145 |
| 22 | Matrix-specific Suppression of Integrin Activation in Shear Stress Signaling. <i>Molecular Biology of the Cell</i> , 2006, 17, 4686-4697. | 0.9 | 139 |
| 23 | The Mechanism of Kindlin-Mediated Activation of Integrin β^3 . <i>Current Biology</i> , 2013, 23, 2288-2295. | 1.8 | 131 |
| 24 | Platelet integrins and immunoreceptors. <i>Immunological Reviews</i> , 2007, 218, 247-264. | 2.8 | 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. | 5.1 | 121 |
| 26 | Integrins and Src: dynamic duo of adhesion signaling. <i>Trends in Cell Biology</i> , 2005, 15, 399-403. | 3.6 | 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. | 3.9 | 115 |
| 28 | RhoA and the Function of Platelet Integrin β^3 . <i>Blood</i> , 1998, 91, 4206-4215. | 0.6 | 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. | 1.6 | 110 |
| 30 | Regulation of Outside-in Signaling in Platelets by Integrin-associated Protein Kinase ζ^2 . <i>Journal of Biological Chemistry</i> , 2005, 280, 644-653. | 1.6 | 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. | 1.6 | 101 |
| 32 | PTP-1B is an essential positive regulator of platelet integrin signaling. <i>Journal of Cell Biology</i> , 2005, 170, 837-845. | 2.3 | 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. | 1.2 | 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. | 4.2 | 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. | 1.6 | 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. | 2.3 | 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. | 1.1 | 84 |
| 38 | Cyclic GMP and Protein Kinase G Control a Src-Containing Mechanosome in Osteoblasts. <i>Science Signaling</i> , 2010, 3, ra91. | 1.6 | 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. | 3.1 | 80 |
| 40 | Detection of Integrin $\alpha 5 \beta 3$ Clustering in Living Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 15217-15224. | 1.6 | 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. | 2.3 | 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. | 0.6 | 66 |
| 43 | The Primacy of $\alpha 5$ Integrin Activation in the Metastatic Cascade. <i>PLoS ONE</i> , 2012, 7, e46576. | 1.1 | 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. | 0.6 | 59 |
| 45 | Antithrombotic effects of targeting $\alpha 5 \beta 3$ signaling in platelets. <i>Blood</i> , 2009, 113, 3585-3592. | 0.6 | 52 |
| 46 | Kindlins, Integrin Activation and the Regulation of Talin Recruitment to $\alpha 5 \beta 3$. <i>PLoS ONE</i> , 2012, 7, e34056. | 1.1 | 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. | 3.9 | 48 |
| 48 | Role for ADAP in shear flow-induced platelet mechanotransduction. <i>Blood</i> , 2010, 115, 2274-2282. | 0.6 | 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. | 0.6 | 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. | 2.5 | 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. | 1.8 | 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. | 0.9 | 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. | 0.8 | 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. | 0.6 | 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. | 3.3 | 23 |
| 56 | Underlying Immune Disorder May Predispose Some Transthyretin Amyloidosis Subjects to Inotersen-Mediated Thrombocytopenia. Nucleic Acid Therapeutics, 2020, 30, 94-103. | 2.0 | 22 |
| 57 | Ligand binding to integrin $\alpha_v\beta_3$ requires tyrosine 178 in the α_v subunit. Blood, 2001, 97, 175-182. | 0.6 | 19 |
| 58 | Optogenetic interrogation of integrin $\alpha_V\beta_3$ function in endothelial cells. Journal of Cell Science, 2017, 130, 3532-3541. | 1.2 | 17 |
| 59 | Genetic and Pharmacological Analyses of Syk Function in $\alpha\text{IIb}\beta_3$ Signaling in Platelets. Blood, 1999, 93, 2645-2652. | 0.6 | 16 |
| 60 | Protein-Protein Interactions in Platelet $\alpha\text{IIb}\beta_3$ Signaling. Seminars in Thrombosis and Hemostasis, 2004, 30, 427-439. | 1.5 | 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. | 1.6 | 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. | 1.6 | 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. | 2.5 | 3 |
| 67 | Cytosolic Phospholipase A2 \pm (cPLA2 \pm) Functions at the Nexus of Bidirectional Integrin Signaling in Platelets.. Blood, 2007, 110, 136-136. | 0.6 | 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. | 0.4 | 1 |
| 69 | The T Cell Receptor SLAPs Integrins Together. Nature Immunology, 2001, 2, 904-905. | 7.0 | 0 |
| 70 | Megakaryocytes Derived from Human Embryonic Stem Cells: A Genetically Tractable System To Study Megakaryocytopoiesis and Integrin Function. Blood, 2005, 106, 1642-1642. | 0.6 | 0 |
| 71 | ADAPtation of Platelet Integrin $\alpha\text{IIb}\beta_3$ to Inside-Out Activation Signals. Blood, 2011, 118, 188-188. | 0.6 | 0 |