

# Brian G Petrich

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,234  
citations

471509

17  
h-index

610901

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Talin is required for integrin-mediated platelet function in hemostasis and thrombosis. <i>Journal of Experimental Medicine</i> , 2007, 204, 3103-3111.	8.5	261
2	The Mechanism of Kindlin-Mediated Activation of Integrin $\alpha 5 \beta 3$ . <i>Current Biology</i> , 2013, 23, 2288-2295.	3.9	131
3	The antithrombotic potential of selective blockade of talin-dependent integrin $\alpha 5 \beta 3$ (platelet GPIIb/IIIa) activation. <i>Journal of Clinical Investigation</i> , 2007, 117, 2250-2259.	8.2	115
4	Live-cell super-resolved PAINT imaging of piconewton cellular traction forces. <i>Nature Methods</i> , 2020, 17, 1018-1024.	19.0	85
5	Blocking neutrophil integrin activation prevents ischemia-reperfusion injury. <i>Journal of Experimental Medicine</i> , 2015, 212, 1267-1281.	8.5	78
6	Talin-dependent integrin activation is required for fibrin clot retraction by platelets. <i>Blood</i> , 2011, 117, 1719-1722.	1.4	74
7	Talin-Dependent Integrin Activation Regulates VE-Cadherin Localization and Endothelial Cell Barrier Function. <i>Circulation Research</i> , 2019, 124, 891-903.	4.5	59
8	Endothelial cell talin1 is essential for embryonic angiogenesis. <i>Developmental Biology</i> , 2011, 349, 494-502.	2.0	58
9	Talin Plays a Critical Role in the Maintenance of the Regulatory T Cell Pool. <i>Journal of Immunology</i> , 2017, 198, 4639-4651.	0.8	56
10	Integrin Activation Controls Regulatory T Cell-Mediated Peripheral Tolerance. <i>Journal of Immunology</i> , 2018, 200, 4012-4023.	0.8	44
11	A talin mutant that impairs talin-integrin binding in platelets decelerates $\alpha 5 \beta 3$ activation without pathological bleeding. <i>Blood</i> , 2014, 123, 2722-2731.	1.4	40
12	Dual role of endothelial Myc1 in tumor angiogenesis and tumor immunity. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	35
13	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19974-19981.	13.8	34
14	Integrin $\alpha 5 \beta 3$ enhances the suppressive effect of interferon $\gamma$ on hematopoietic stem cells. <i>EMBO Journal</i> , 2017, 36, 2390-2403.	7.8	28
15	Integrin-dependent regulation of the endothelial barrier. <i>Tissue Barriers</i> , 2019, 7, 1685844.	3.2	25
16	Talin-dependent integrin activation is required for endothelial proliferation and postnatal angiogenesis. <i>Angiogenesis</i> , 2021, 24, 177-190.	7.2	24
17	A Small Molecule That Inhibits the Interaction of Paxillin and $\alpha 4$ Integrin Inhibits Accumulation of Mononuclear Leukocytes at a Site of Inflammation. <i>Journal of Biological Chemistry</i> , 2010, 285, 9462-9469.	3.4	22
18	Topological Adaptation of Transmembrane Domains to the Force-Modulated Lipid Bilayer Is a Basis of Sensing Mechanical Force. <i>Current Biology</i> , 2020, 30, 1614-1625.e5.	3.9	20

#	ARTICLE	IF	CITATIONS
19	DNA-Based Microparticle Tension Sensors (µTS) for Measuring Cell Mechanics in Non-planar Geometries and for High-Throughput Quantification. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18044-18050.	13.8	13
20	Significant differences in single-platelet biophysics exist across species but attenuate during clot formation. <i>Blood Advances</i> , 2021, 5, 432-437.	5.2	11
21	Talin-dependent integrin signalling in vivo. <i>Thrombosis and Haemostasis</i> , 2009, 101, 1020-4.	3.4	9
22	DNA-Based Microparticle Tension Sensors (µTS) for Measuring Cell Mechanics in Non-planar Geometries and for High-Throughput Quantification. <i>Angewandte Chemie</i> , 2021, 133, 18192-18198.	2.0	6
23	Integrin affinity modulation critically regulates atherogenic endothelial activation in vitro and in vivo. <i>Matrix Biology</i> , 2021, 96, 87-103.	3.6	3
24	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie</i> , 2021, 133, 20127-20134.	2.0	3
25	Nov/CCN3 Enhances Long-Term Repopulating Activity of Mouse Hematopoietic Stem Cells Via Intergin 123 Signaling Collaborating with Thrombopoietin. <i>Blood</i> , 2011, 118, 862-862.	1.4	0
26	Thrombosis and Inflammation Are Coupled by a Common Thioredoxin Reductase Pathway Downstream of the P2 <sub>U</sub> -7 Receptor. <i>Blood</i> , 2012, 120, 2218-2218.	1.4	0