

Tatiana V Byzova

List of Publications by Year in descending order

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133
papers

9,194
citations

50566

48
h-index

45040

94
g-index

136
all docs

136
docs citations

136
times ranked

13282
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammation-dependent oxidative stress metabolites as a hallmark of amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2022, 178, 125-133.	1.3	26
2	Pentose phosphate pathway drives vascular maturation. <i>Nature Metabolism</i> , 2022, 4, 15-16.	5.1	6
3	Endothelial OCT4 is atheroprotective by preventing metabolic and phenotypic dysfunction. <i>Cardiovascular Research</i> , 2022, 118, 2458-2477.	1.8	12
4	Progressive skeletal defects caused by Kindlin3 deficiency, a model of autosomal recessive osteopetrosis in humans. <i>Bone</i> , 2022, 160, 116397.	1.4	2
5	Timely Wound Healing Is Dependent on Endothelial but Not on Hair Follicle Stem Cell Toll-Like Receptor 2 Signaling. <i>Journal of Investigative Dermatology</i> , 2022, 142, 3082-3092.e1.	0.3	5
6	Modification of Extracellular Matrix by the Product of DHA Oxidation Switches Macrophage Adhesion Patterns and Promotes Retention of Macrophages During Chronic Inflammation. <i>Frontiers in Immunology</i> , 2022, 13, .	2.2	1
7	Endothelial TLR2 promotes proangiogenic immune cell recruitment and tumor angiogenesis. <i>Science Signaling</i> , 2021, 14, .	1.6	28
8	Kindlin-3 mutation in mesenchymal stem cells results in enhanced chondrogenesis. <i>Experimental Cell Research</i> , 2021, 399, 112456.	1.2	5
9	Kindlin3 regulates biophysical properties and mechanics of membrane to cortex attachment. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4003-4018.	2.4	5
10	Circulating CD36 is increased in hyperlipidemic mice: Cellular sources and triggers of release. <i>Free Radical Biology and Medicine</i> , 2021, 168, 180-188.	1.3	7
11	Platelet TSP-1 controls prostate cancer-induced osteoclast differentiation and bone marrow-derived cell mobilization through TGF β 1. <i>American Journal of Clinical and Experimental Urology</i> , 2021, 9, 18-31.	0.4	5
12	Cross-linking modifications of HDL apoproteins by oxidized phospholipids: structural characterization, in vivo detection, and functional implications. <i>Journal of Biological Chemistry</i> , 2020, 295, 1973-1984.	1.6	12
13	Remodeling vasculature to avoid blindness. <i>Science</i> , 2020, 369, 919-920.	6.0	0
14	Macrophage Migration and Phagocytosis Are Controlled by Kindlin-3's Link to the Cytoskeleton. <i>Journal of Immunology</i> , 2020, 204, 1954-1967.	0.4	15
15	Microglia control vascular architecture via a TGF β 1 dependent paracrine mechanism linked to tissue mechanics. <i>Nature Communications</i> , 2020, 11, 986.	5.8	54
16	Inhibition of integrin α 5 β 1-mediated macrophage adhesion to end product of docosahexaenoic acid (DHA) oxidation prevents macrophage accumulation during inflammation. <i>Journal of Biological Chemistry</i> , 2019, 294, 14370-14382.	1.6	14
17	Structural Basis of Paxillin Recruitment by Kindlin-2 in Regulating Cell Adhesion. <i>Structure</i> , 2019, 27, 1686-1697.e5.	1.6	33
18	Ossified blood vessels in primary familial brain calcification elicit a neurotoxic astrocyte response. <i>Brain</i> , 2019, 142, 885-902.	3.7	50

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19	Oxidative modifications of extracellular matrix promote the second wave of inflammation via β_2 integrins. <i>Blood</i> , 2018, 132, 78-88.	0.6	41
20	Integrin Alpha V (ITGAV). , 2018, , 2634-2645.		0
21	Akt3 kinase suppresses pinocytosis of low-density lipoprotein by macrophages via a novel WNK/SCK1/Cdc42 protein pathway. <i>Journal of Biological Chemistry</i> , 2017, 292, 9283-9293.	1.6	28
22	TLR2 Plays a Key Role in Platelet Hyperreactivity and Accelerated Thrombosis Associated With Hyperlipidemia. <i>Circulation Research</i> , 2017, 121, 951-962.	2.0	53
23	Structure of Rap1b bound to talin reveals a pathway for triggering integrin activation. <i>Nature Communications</i> , 2017, 8, 1744.	5.8	82
24	Biological and pathophysiological roles of end-products of DHA oxidation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 407-415.	1.2	19
25	β_3 phosphorylation of platelet β_3 is crucial for stability of arterial thrombus and microparticle formation in vivo. <i>Thrombosis Journal</i> , 2017, 15, 22.	0.9	4
26	Integrin-Kindlin3 requirements for microglial motility in vivo are distinct from those for macrophages. <i>JCI Insight</i> , 2017, 2, .	2.3	24
27	Akt3 inhibits adipogenesis and protects from diet-induced obesity via signaling pathway. <i>JCI Insight</i> , 2017, 2, .	2.3	31
28	Reciprocal Interactions Between Platelets and Metastatic Tumors. <i>Blood</i> , 2017, 130, SCI-25-SCI-25.	0.6	0
29	Akt1 promotes stimuli-induced endothelial-barrier protection through FoxO-mediated tight-junction protein turnover. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3917-3933.	2.4	35
30	Novel phosphatidylethanolamine derivatives accumulate in circulation in hyperlipidemic ApoE ^{-/-} /A ^{+/+} mice and activate platelets via TLR2. <i>Blood</i> , 2016, 127, 2618-2629.	0.6	38
31	Prothrombotic lipoprotein patterns in stroke. <i>Blood</i> , 2016, 127, 1221-1222.	0.6	5
32	Stability and function of adult vasculature is sustained by Akt/Jagged1 signalling axis in endothelium. <i>Nature Communications</i> , 2016, 7, 10960.	5.8	77
33	“Fishing” out the real VEGFs. <i>Blood</i> , 2016, 128, 2283-2284.	0.6	4
34	Direct contact with perivascular tumor cells enhances integrin β_3 signaling and migration of endothelial cells. <i>Oncotarget</i> , 2016, 7, 43852-43867.	0.8	28
35	Abstract 40: Prothrombotic Role of Platelet Tlr2 in Hyperlipidemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, .	1.1	0
36	Site-specific Phosphorylation of Kindlin-3 Protein Regulates Its Capacity to Control Cellular Responses Mediated by Integrin β_3 . <i>Journal of Biological Chemistry</i> , 2015, 290, 6226-6242.	1.6	16

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37	State-of-the-Art Methods for Evaluation of Angiogenesis and Tissue Vascularization. <i>Circulation Research</i> , 2015, 116, e99-132.	2.0	113
38	Emergence and subsequent functional specialization of kindlins during evolution of cell adhesiveness. <i>Molecular Biology of the Cell</i> , 2015, 26, 786-796.	0.9	17
39	Receptor-Mediated Mechanism Controlling Tissue Levels of Bioactive Lipid Oxidation Products. <i>Circulation Research</i> , 2015, 117, 321-332.	2.0	24
40	CD117+ cells in the circulation are predictive of advanced prostate cancer. <i>Oncotarget</i> , 2015, 6, 1889-1897.	0.8	45
41	Abstract 172: Product of Lipid Oxidation During Inflammation is a New Potent Ligand for $\alpha 2$ Integrin-mediated Macrophage Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, .	1.1	0
42	Conformational activation of talin by RIAM triggers integrin-mediated cell adhesion. <i>Nature Communications</i> , 2014, 5, 5880.	5.8	73
43	Integrin function in vascular biology. <i>Current Opinion in Hematology</i> , 2014, 21, 241-247.	1.2	47
44	Oxidative stress in angiogenesis and vascular disease. <i>Blood</i> , 2014, 123, 625-631.	0.6	509
45	Direct Interaction of Kindlin-3 With Integrin $\alpha \text{IIb} \beta 3$ in Platelets Is Required for Supporting Arterial Thrombosis in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1961-1967.	1.1	40
46	Differential effects of Akt1 signaling on short- versus long-term consequences of myocardial infarction and reperfusion injury. <i>Laboratory Investigation</i> , 2014, 94, 1083-1091.	1.7	20
47	Inflammation and oxidative stress in angiogenesis and vascular disease. <i>Journal of Molecular Medicine</i> , 2013, 91, 323-328.	1.7	177
48	Engagement of Platelet Toll-Like Receptor 9 by Novel Endogenous Ligands Promotes Platelet Hyperreactivity and Thrombosis. <i>Circulation Research</i> , 2013, 112, 103-112.	2.0	140
49	Interference with Akt Signaling Protects Against Myocardial Infarction and Death by Limiting the Consequences of Oxidative Stress. <i>Science Signaling</i> , 2013, 6, ra67.	1.6	31
50	Platelets govern pre-metastatic tumor communication to bone. <i>Oncogene</i> , 2013, 32, 4319-4324.	2.6	76
51	Agonist-Induced Kindlin-3 Phosphorylation Regulates $\alpha \text{IIb} \beta 3$ Integrin Activation In HEL Cells and Platelets. <i>Blood</i> , 2013, 122, 22-22.	0.6	5
52	Platelet Sequestered Proteins Mediate Pre-Metastatic Communication Between Tumors and Bone. <i>Blood</i> , 2013, 122, 1063-1063.	0.6	0
53	Akt1 mediates prostate cancer cell microinvasion and chemotaxis to metastatic stimuli via integrin $\beta 3$ affinity modulation. <i>British Journal of Cancer</i> , 2012, 107, 713-723.	2.9	31
54	Regulation of Cell Adhesion and Migration by Kindlin-3 Cleavage by Calpain. <i>Journal of Biological Chemistry</i> , 2012, 287, 40012-40020.	1.6	30

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55	Integrin signaling in vascular function. <i>Current Opinion in Hematology</i> , 2012, 19, 206-211.	1.2	54
56	INTERFERENCE WITH AKT SIGNALING IN DYSLIPIDEMIA DIMINISHES MYOCARDIAL INFARCTION AND PROMOTES SURVIVAL BY INHIBITING OXIDATIVE STRESS. <i>Heart</i> , 2012, 98, E62.2-E63.	1.2	0
57	Notch promotes vascular maturation by inducing integrin-mediated smooth muscle cell adhesion to the endothelial basement membrane. <i>Blood</i> , 2012, 119, 2149-2158.	0.6	124
58	Akt3 Deficiency in Macrophages Promotes Foam Cell Formation and Atherosclerosis in Mice. <i>Cell Metabolism</i> , 2012, 15, 861-872.	7.2	69
59	The dark side of the oxidative force in angiogenesis. <i>Nature Medicine</i> , 2012, 18, 1184-1185.	15.2	7
60	Integrin β 3 Crosstalk with VEGFR Accommodating Tyrosine Phosphorylation as a Regulatory Switch. <i>PLoS ONE</i> , 2012, 7, e31071.	1.1	34
61	Novel aspects of Kindlin-3 function in humans based on a new case of leukocyte adhesion deficiency β III. <i>Journal of Thrombosis and Haemostasis</i> , 2012, 10, 1397-1408.	1.9	29
62	Abstract 341: Akt1 Deletion Promotes Survival in a Model of Spontaneous Myocardial Infarction and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, .	1.1	0
63	Abstract 214: Engagement of Platelet Toll-like Receptor 9 by Classical and Novel Endogenous Ligands Promotes Platelet Hyperreactivity and Thrombosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, .	1.1	0
64	Augmented Osteolysis in SPARC-Deficient Mice with Bone-Residing Prostate Cancer. <i>Neoplasia</i> , 2011, 13, 31-IN5.	2.3	23
65	Oxidation as "The Stress of Life". <i>Aging</i> , 2011, 3, 906-910.	1.4	46
66	A novel role for platelet secretion in angiogenesis: mediating bone marrow α -derived cell mobilization and homing. <i>Blood</i> , 2011, 117, 3893-3902.	0.6	113
67	The integrin coactivator Kindlin-2 plays a critical role in angiogenesis in mice and zebrafish. <i>Blood</i> , 2011, 117, 4978-4987.	0.6	64
68	Feng W, Madajka M, Kerr BA, Mahabeleshwar GH, Whiteheart SW, Byzova TV. A novel role for platelet secretion in angiogenesis: mediating bone marrow α -derived cell mobilization and homing. <i>Blood</i> . 2011;117(14):3893-3902.. <i>Blood</i> , 2011, 117, 7187-7187.	0.6	3
69	Deficiency in core circadian protein <i>Bmal1</i> is associated with a prothrombotic and vascular phenotype. <i>Journal of Cellular Physiology</i> , 2011, 226, 132-140.	2.0	62
70	TGF β and bleomycin-induced extracellular matrix synthesis is mediated through Akt and mammalian target of rapamycin (mTOR). <i>Journal of Cellular Physiology</i> , 2011, 226, 3004-3013.	2.0	43
71	Tyrosine Phosphorylation as a Conformational Switch. <i>Journal of Biological Chemistry</i> , 2011, 286, 40943-40953.	1.6	27
72	Kindlins in FERM adhesion. <i>Blood</i> , 2010, 115, 4011-4017.	0.6	113

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73	Î±B-crystallin: a novel VEGF chaperone. <i>Blood</i> , 2010, 115, 3181-3183.	0.6	16
74	Oxidative stress induces angiogenesis by activating TLR2 with novel endogenous ligands. <i>Nature</i> , 2010, 467, 972-976.	13.7	379
75	Tyrosine Phosphorylation of Integrin Î²3 Regulates Kindlin-2 Binding and Integrin Activation. <i>Journal of Biological Chemistry</i> , 2010, 285, 30370-30374.	1.6	46
76	The Integrin Co-activator Kindlin-3 Is Expressed and Functional in a Non-hematopoietic Cell, the Endothelial Cell. <i>Journal of Biological Chemistry</i> , 2010, 285, 18640-18649.	1.6	88
77	Comparison of Tumor and Microenvironment Secretomes in Plasma and in Platelets during Prostate Cancer Growth in a Xenograft Model. <i>Neoplasia</i> , 2010, 12, 388-IN4.	2.3	35
78	ERK1/2-Akt1 crosstalk regulates arteriogenesis in mice and zebrafish. <i>Journal of Clinical Investigation</i> , 2010, 120, 1217-1228.	3.9	136
79	The Integrin Co-Activator Kindlin-2 Plays a Critical Role In Angiogenesis and Blood Vessel Integrity. <i>Blood</i> , 2010, 116, 4-4.	0.6	0
80	Kindling the flame of integrin activation and function with kindlins. <i>Current Opinion in Hematology</i> , 2009, 16, 323-328.	1.2	83
81	Rac1Î²21 activated kinase signaling regulates Akt1-mediated cytoskeletal organization, lamellipodia formation and fibronectin matrix assembly. <i>Journal of Cellular Physiology</i> , 2009, 218, 394-404.	2.0	44
82	Cooperation between integrin Î±1Î²3 and VEGFR2 in angiogenesis. <i>Angiogenesis</i> , 2009, 12, 177-185.	3.7	212
83	Integrin and Growth Factor Receptor Alliance in Angiogenesis. <i>Cell Biochemistry and Biophysics</i> , 2009, 53, 53-64.	0.9	110
84	A point mutation in KINDLIN3 ablates activation of three integrin subfamilies in humans. <i>Nature Medicine</i> , 2009, 15, 313-318.	15.2	314
85	The role of PAK-1 in activation of MAP kinase cascade and oncogenic transformation by Akt. <i>Oncogene</i> , 2009, 28, 2365-2369.	2.6	53
86	Intraosseous injection of RM1 murine prostate cancer cells promotes rapid osteolysis and periosteal bone deposition. <i>Clinical and Experimental Metastasis</i> , 2008, 25, 581-590.	1.7	26
87	Akt1 is necessary for the vascular maturation and angiogenesis during cutaneous wound healing. <i>Angiogenesis</i> , 2008, 11, 277-288.	3.7	66
88	Integrin affinity modulation in angiogenesis. <i>Cell Cycle</i> , 2008, 7, 335-347.	1.3	72
89	Chapter 11 Vascular Integrin Signaling. <i>Methods in Enzymology</i> , 2008, 443, 199-226.	0.4	8
90	The angiogenic response is dictated by Î²3 integrin on bone marrow-derived cells. <i>Journal of Cell Biology</i> , 2008, 183, 1145-1157.	2.3	53

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91	Oxidized high-density lipoprotein inhibits platelet activation and aggregation via scavenger receptor. <i>Bl. Blood</i> , 2008, 111, 1962-1971.	0.6	94
92	CD40/TRAF6 switch in neointimal hyperplasia. <i>Blood</i> , 2008, 111, 4424-4424.	0.6	2
93	Role of beta3 Integrin in Pathological Angiogenesis. <i>FASEB Journal</i> , 2008, 22, 470.10.	0.2	0
94	The angiogenic response is dictated by b3integrin on bone marrow-derived cells. <i>Journal of Experimental Medicine</i> , 2008, 205, i28-i28.	4.2	0
95	Mechanisms of Integrin-Vascular Endothelial Growth Factor Receptor Cross-Activation in Angiogenesis. <i>Circulation Research</i> , 2007, 101, 570-580.	2.0	263
96	Akt1 Signaling Regulates Integrin Activation, Matrix Recognition, and Fibronectin Assembly. <i>Journal of Biological Chemistry</i> , 2007, 282, 22964-22976.	1.6	94
97	Prostate cancer specific integrin $\alpha 5 \beta 3$ modulates bone metastatic growth and tissue remodeling. <i>Oncogene</i> , 2007, 26, 6238-6243.	2.6	188
98	Platelet CD36 links hyperlipidemia, oxidant stress and a prothrombotic phenotype. <i>Nature Medicine</i> , 2007, 13, 1086-1095.	15.2	420
99	Angiogenesis in Melanoma. <i>Seminars in Oncology</i> , 2007, 34, 555-565.	0.8	127
100	Matrix rules: microfibrillar protein controls vascular development. <i>Blood</i> , 2006, 107, 4202-4203.	0.6	0
101	Akt1 in Endothelial Cell and Angiogenesis. <i>Cell Cycle</i> , 2006, 5, 512-518.	1.3	234
102	Methods for Isolation of Endothelial and Smooth Muscle Cells and In Vitro Proliferation Assays. , 2006, 129, 197-208.		26
103	Integrin signaling is critical for pathological angiogenesis. <i>Journal of Experimental Medicine</i> , 2006, 203, 2495-2507.	4.2	188
104	Role of Casein Kinase 2 in Platelets Release from Megakaryocytes.. <i>Blood</i> , 2006, 108, 1534-1534.	0.6	0
105	Akt1 regulates pathological angiogenesis, vascular maturation and permeability in vivo. <i>Nature Medicine</i> , 2005, 11, 1188-1196.	15.2	382
106	VEGF-integrin interplay controls tumor growth and vascularization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7589-7594.	3.3	172
107	Thrombospondin-1 up-regulates expression of cell adhesion molecules and promotes monocyte binding to endothelium. <i>FASEB Journal</i> , 2005, 19, 1158-1160.	0.2	101
108	Phase II trial of GM-CSF + thalidomide in patients with androgen-independent metastatic prostate cancer. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2005, 23, 82-86.	0.8	29

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109	Beta 3 Integrin Phosphorylation and VEGF Signaling.. Blood, 2005, 106, 532-532.	0.6	2
110	Casein Kinase II Inhibition in MEG-01 Cell Line Results in Apoptosis, Megakaryocytopoiesis and Functional Platelets Release.. Blood, 2005, 106, 4328-4328.	0.6	0
111	Platelets and Prothrombin. , 2005, , 283-300.		0
112	Metastatic Properties of Prostate Cancer Cells are Controlled by VEGF. Cell Communication and Adhesion, 2004, 11, 1-11.	1.0	59
113	Molecular and Functional Differences Induced in Thrombospondin-1 by the Single Nucleotide Polymorphism Associated with the Risk of Premature, Familial Myocardial Infarction. Journal of Biological Chemistry, 2004, 279, 21651-21657.	1.6	42
114	Coronary artery disease and the thrombospondin single nucleotide polymorphisms. International Journal of Biochemistry and Cell Biology, 2004, 36, 1013-1030.	1.2	46
115	Impaired platelet responses to thrombin and collagen in Akt-1-deficient mice. Blood, 2004, 104, 1703-1710.	0.6	217
116	Akt-1 Regulates Angiogenesis in Skin.. Blood, 2004, 104, 845-845.	0.6	0
117	Integrins in bone recognition and metastasis. Journal of Musculoskeletal Neuronal Interactions, 2004, 4, 374.	0.1	3
118	Integrin α IIb β 3 and Its Antagonism. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 945-952.	1.1	72
119	Molecular Pathway for Cancer Metastasis to Bone. Journal of Biological Chemistry, 2003, 278, 39044-39050.	1.6	133
120	Adenovirus encoding vascular endothelial growth factor β induces tissue-specific vascular patterns in vivo. Blood, 2002, 99, 4434-4442.	0.6	102
121	Platelet receptors: fibrinogen. , 2002, , 188-203.		1
122	α IIb β 3 and Its Antagonism at the New Millennium. Thrombosis and Haemostasis, 2001, 86, 34-40.	1.8	37
123	Activation of Integrin α V β 3 Regulates Cell Adhesion and Migration to Bone Sialoprotein. Experimental Cell Research, 2000, 254, 299-308.	1.2	111
124	A Mechanism for Modulation of Cellular Responses to VEGF. Molecular Cell, 2000, 6, 851-860.	4.5	29
125	The PIA2 allele and cardiovascular disease: the pro33 and con. Journal of Clinical Investigation, 2000, 105, 697-698.	3.9	12
126	A mechanism for modulation of cellular responses to VEGF: activation of the integrins. Molecular Cell, 2000, 6, 851-60.	4.5	316

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127	Peptide Ligands Can Bind to Distinct Sites in Integrin $\alpha 5\beta 1$ and Elicit Different Functional Responses. Journal of Biological Chemistry, 1999, 274, 16923-16932.	1.6	86
128	Platelet GPIIb-IIIa blockers. Lancet, The, 1999, 353, 227-231.	6.3	508
129	The biology of glycoprotein IIb-IIIa. Coronary Artery Disease, 1999, 10, 547-552.	0.3	29
130	Activation of $\alpha 5\beta 1$ on Vascular Cells Controls Recognition of Prothrombin. Journal of Cell Biology, 1998, 143, 2081-2092.	2.3	103
131	Role of Integrin $\alpha 5\beta 1$ in Vascular Biology. Thrombosis and Haemostasis, 1998, 80, 726-734.	1.8	154
132	Networking in the Hemostatic System. Journal of Biological Chemistry, 1997, 272, 27183-27188.	1.6	107
133	Integrin alpha V. The AFCS-nature Molecule Pages, 0, , .	0.2	2