

# Anthony Orr

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

4,726  
citations

38  
h-index

68  
g-index

120  
ext. papers

5,616  
ext. citations

6.8  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
102	Mechanisms of mechanotransduction. <i>Developmental Cell</i> , <b>2006</b> , 10, 11-20	10.2	605
101	Integrins in mechanotransduction. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 12001-4	5.4	518
100	The subendothelial extracellular matrix modulates NF-kappaB activation by flow: a potential role in atherosclerosis. <i>Journal of Cell Biology</i> , <b>2005</b> , 169, 191-202	7.3	219
99	Complex regulation and function of the inflammatory smooth muscle cell phenotype in atherosclerosis. <i>Journal of Vascular Research</i> , <b>2010</b> , 47, 168-80	1.9	194
98	Thrombospondin signaling through the calreticulin/LDL receptor-related protein co-complex stimulates random and directed cell migration. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 2917-27	5.3	149
97	Thrombospondin mediates focal adhesion disassembly through interactions with cell surface calreticulin. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 36358-68	5.4	131
96	Low density lipoprotein receptor-related protein is a calreticulin coreceptor that signals focal adhesion disassembly. <i>Journal of Cell Biology</i> , <b>2003</b> , 161, 1179-89	7.3	126
95	Matrix-specific suppression of integrin activation in shear stress signaling. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 4686-97	3.5	123
94	Perlecan domain V is neuroprotective and proangiogenic following ischemic stroke in rodents. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 3005-23	15.9	116
93	Matrix-specific p21-activated kinase activation regulates vascular permeability in atherogenesis. <i>Journal of Cell Biology</i> , <b>2007</b> , 176, 719-27	7.3	112
92	12/15-lipoxygenase regulates intercellular adhesion molecule-1 expression and monocyte adhesion to endothelium through activation of RhoA and nuclear factor-kappaB. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2005</b> , 25, 2301-7	9.4	96
91	The arterial microenvironment: the where and why of atherosclerosis. <i>Biochemical Journal</i> , <b>2016</b> , 473, 1281-95	3.8	95
90	Hyperglycemia and endothelial dysfunction in atherosclerosis: lessons from type 1 diabetes. <i>International Journal of Vascular Medicine</i> , <b>2012</b> , 2012, 569654	1.2	91
89	β1 integrin signaling mediates oxidized low-density lipoprotein-induced inflammation and early atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2014</b> , 34, 1362-73	9.4	83
88	Molecular mechanisms of collagen isotype-specific modulation of smooth muscle cell phenotype. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2009</b> , 29, 225-31	9.4	79
87	SUN-562 Long-Term Mental Stress Implications to Cardiovascular Disease in an Aged Mouse Model. <i>Journal of the Endocrine Society</i> , <b>2020</b> , 4,	0.4	78
86	p21-activated kinase signaling regulates oxidant-dependent NF-kappa B activation by flow. <i>Circulation Research</i> , <b>2008</b> , 103, 671-9	15.7	75

85	The subendothelial extracellular matrix modulates JNK activation by flow. <i>Circulation Research</i> , <b>2009</b> , 104, 995-1003	15.7	73
84	Thrombospondin stimulates focal adhesion disassembly through Gi- and phosphoinositide 3-kinase-dependent ERK activation. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 20453-60	5.4	71
83	EphA2 activation promotes the endothelial cell inflammatory response: a potential role in atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2012</b> , 32, 686-95	9.4	67
82	Intercellular adhesion molecule-1 (ICAM-1) regulates endothelial cell motility through a nitric oxide-dependent pathway. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 19230-8	5.4	65
81	Doxorubicin-induced cardiomyopathy associated with inhibition of autophagic degradation process and defects in mitochondrial respiration. <i>Scientific Reports</i> , <b>2019</b> , 9, 2002	4.9	62
80	Focal adhesion kinase modulates activation of NF-kappaB by flow in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 297, C814-22	5.4	62
79	Methamphetamine Use and Cardiovascular Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2019</b> , 39, 1739-1746	9.4	60
78	Fluid shear stress induces upregulation of COX-2 and PGI release in endothelial cells via a pathway involving PECAM-1, PI3K, FAK, and p38. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2017</b> , 312, H485-H500	5.2	57
77	Regulation of endothelial cell function BY FAK and PYK2. <i>Frontiers in Bioscience - Landmark</i> , <b>2004</b> , 9, 1254-56	4.6	56
76	Thrombospondin induces RhoA inactivation through FAK-dependent signaling to stimulate focal adhesion disassembly. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 48983-92	5.4	54
75	Integrin signaling in atherosclerosis. <i>Cellular and Molecular Life Sciences</i> , <b>2017</b> , 74, 2263-2282	10.3	53
74	Model of coupled transient changes of Rac, Rho, adhesions and stress fibers alignment in endothelial cells responding to shear stress. <i>Journal of Theoretical Biology</i> , <b>2005</b> , 232, 569-85	2.3	53
73	Matrix-specific protein kinase A signaling regulates p21-activated kinase activation by flow in endothelial cells. <i>Circulation Research</i> , <b>2010</b> , 106, 1394-403	15.7	49
72	Novel Role for the AnxA1-Fpr2/ALX Signaling Axis as a Key Regulator of Platelet Function to Promote Resolution of Inflammation. <i>Circulation</i> , <b>2019</b> , 140, 319-335	16.7	48
71	Ephs and ephrins resurface in inflammation, immunity, and atherosclerosis. <i>Pharmacological Research</i> , <b>2013</b> , 67, 42-52	10.2	48
70	Integrins Mediate Flow-Induced NF-B Activation, Proinflammatory Gene Expression, and Early Atherogenic Inflammation. <i>American Journal of Pathology</i> , <b>2015</b> , 185, 2575-89	5.8	47
69	Attenuation of experimental atherosclerosis by interleukin-19. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2013</b> , 33, 2316-24	9.4	44
68	Hydrogen sulfide metabolism regulates endothelial solute barrier function. <i>Redox Biology</i> , <b>2016</b> , 9, 157-166	16.6	40

67	Role of endothelial N-glycan mannose residues in monocyte recruitment during atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2012</b> , 32, e51-9	9.4	39
66	Cardiac Dysfunction in the Sigma 1 Receptor Knockout Mouse Associated With Impaired Mitochondrial Dynamics and Bioenergetics. <i>Journal of the American Heart Association</i> , <b>2018</b> , 7, e009775	6	39
65	Altered nitric oxide production mediates matrix-specific PAK2 and NF- $\kappa$ B activation by flow. <i>Molecular Biology of the Cell</i> , <b>2013</b> , 24, 398-408	3.5	38
64	Oxidized LDL induces FAK-dependent RSK signaling to drive NF- $\kappa$ B activation and VCAM-1 expression. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 1580-91	5.3	37
63	Endothelial FN (Fibronectin) Deposition by $\beta$ 1 Integrins Drives Atherogenic Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2018</b> , 38, 2601-2614	9.4	34
62	Cystathionine $\gamma$ Lyase Modulates Flow-Dependent Vascular Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2018</b> , 38, 2126-2136	9.4	31
61	Flow patterns regulate hyperglycemia-induced subendothelial matrix remodeling during early atherogenesis. <i>Atherosclerosis</i> , <b>2014</b> , 232, 277-84	3.1	28
60	EphA2 Expression Regulates Inflammation and Fibroproliferative Remodeling in Atherosclerosis. <i>Circulation</i> , <b>2017</b> , 136, 566-582	16.7	27
59	Sigmar1 regulates endoplasmic reticulum stress-induced C/EBP-homologous protein expression in cardiomyocytes. <i>Bioscience Reports</i> , <b>2017</b> , 37,	4.1	27
58	Synemin promotes AKT-dependent glioblastoma cell proliferation by antagonizing PP2A. <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 1243-53	3.5	27
57	Antiretrovirals induce endothelial dysfunction via an oxidant-dependent pathway and promote neointimal hyperplasia. <i>Toxicological Sciences</i> , <b>2010</b> , 117, 524-36	4.4	26
56	Human Papillomavirus 16 E5 Inhibits Interferon Signaling and Supports Episomal Viral Maintenance. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	25
55	JNK2 promotes endothelial cell alignment under flow. <i>PLoS ONE</i> , <b>2011</b> , 6, e24338	3.7	24
54	Resveratrol promotes endothelial cell wound healing under laminar shear stress through an estrogen receptor-dependent pathway. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 306, H797-806	5.2	23
53	Integrins and their extracellular matrix ligands in lymphangiogenesis and lymph node metastasis. <i>International Journal of Cell Biology</i> , <b>2012</b> , 2012, 853703	2.6	23
52	Macrophage-Associated Lipin-1 Enzymatic Activity Contributes to Modified Low-Density Lipoprotein-Induced Proinflammatory Signaling and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2018</b> , 38, 324-334	9.4	22
51	Decreases in GSH:GSSG activate vascular endothelial growth factor receptor 2 (VEGFR2) in human aortic endothelial cells. <i>Redox Biology</i> , <b>2018</b> , 19, 22-27	11.3	21
50	Decreased availability of nitric oxide and hydrogen sulfide is a hallmark of COVID-19. <i>Redox Biology</i> , <b>2021</b> , 43, 101982	11.3	21

49	Both MC1 and MC3 Receptors Provide Protection From Cerebral Ischemia-Reperfusion-Induced Neutrophil Recruitment. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35, 1936-44	9.4	20
48	Podocytes require the engagement of cell surface heparan sulfate proteoglycans for adhesion to extracellular matrices. <i>Kidney International</i> , <b>2010</b> , 78, 1088-99	9.9	20
47	A Critical Role for Monocytes/Macrophages During Intestinal Inflammation-associated Lymphangiogenesis. <i>Inflammatory Bowel Diseases</i> , <b>2016</b> , 22, 1326-45	4.5	20
46	Aberrant Mitochondrial Fission Is Maladaptive in Desmin Mutation-Induced Cardiac Proteotoxicity. <i>Journal of the American Heart Association</i> , <b>2018</b> , 7,	6	19
45	Blood Brothers: Hemodynamics and Cell-Matrix Interactions in Endothelial Function. <i>Antioxidants and Redox Signaling</i> , <b>2016</b> , 25, 415-34	8.4	18
44	ROS-dependent Syk and Pyk2-mediated STAT1 activation is required for 15(S)-hydroxyeicosatetraenoic acid-induced CD36 expression and foam cell formation. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 76, 147-62	7.8	18
43	Recruitment of the adaptor protein Nck to PECAM-1 couples oxidative stress to canonical NF- $\kappa$ B signaling and inflammation. <i>Science Signaling</i> , <b>2015</b> , 8, ra20	8.8	16
42	Lipin-1 contributes to modified low-density lipoprotein-elicited macrophage pro-inflammatory responses. <i>Atherosclerosis</i> , <b>2015</b> , 242, 424-32	3.1	14
41	Disruption of p21-activated kinase 1 gene diminishes atherosclerosis in apolipoprotein E-deficient mice. <i>Nature Communications</i> , <b>2015</b> , 6, 7450	17.4	14
40	Absence of Nicotinamide Nucleotide Transhydrogenase in C57BL/6J Mice Exacerbates Experimental Atherosclerosis. <i>Journal of Vascular Research</i> , <b>2018</b> , 55, 98-110	1.9	12
39	Methamphetamine induces cardiomyopathy by Sigmar1 inhibition-dependent impairment of mitochondrial dynamics and function. <i>Communications Biology</i> , <b>2020</b> , 3, 682	6.7	11
38	Targeting the AnxA1/Fpr2/ALX pathway regulates neutrophil function, promoting thromboinflammation resolution in sickle cell disease. <i>Blood</i> , <b>2021</b> , 137, 1538-1549	2.2	11
37	EphA2 stimulates VCAM-1 expression through calcium-dependent NFAT1 activity. <i>Cellular Signalling</i> , <b>2018</b> , 49, 30-38	4.9	11
36	NFATc1-E2F1-LMCD1-Mediated IL-33 Expression by Thrombin Is Required for Injury-Induced Neointima Formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2019</b> , 39, 1212-1226	9.4	10
35	A critical role for both CD40 and VLA5 in angiotensin II-mediated thrombosis and inflammation. <i>FASEB Journal</i> , <b>2018</b> , 32, 3448-3456	0.9	10
34	Differential arterial and venous endothelial redox responses to oxidative stress. <i>Microcirculation</i> , <b>2018</b> , 25, e12486	2.9	9
33	Guidance Molecules in Vascular Smooth Muscle. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1311	4.6	9
32	LIM and cysteine-rich domains 1 is required for thrombin-induced smooth muscle cell proliferation and promotes atherogenesis. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 3088-3103	5.4	8

31	De novo designed transmembrane peptides activating the $\beta_1$ integrin. <i>Protein Engineering, Design and Selection</i> , <b>2018</b> , 31, 181-190	1.9	8
30	Selective role of Nck1 in atherogenic inflammation and plaque formation. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 4331-4347	15.9	6
29	Dysfunctional Mitochondrial Dynamic and Oxidative Phosphorylation Precedes Cardiac Dysfunction in R120G-B-Crystallin-Induced Desmin-Related Cardiomyopathy. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e017195	6	6
28	Talin-dependent integrin activation is required for endothelial proliferation and postnatal angiogenesis. <i>Angiogenesis</i> , <b>2021</b> , 24, 177-190	10.6	6
27	Neurogranin regulates eNOS function and endothelial activation. <i>Redox Biology</i> , <b>2020</b> , 34, 101487	11.3	5
26	N-sulfation of heparan sulfate is critical for syndecan-4-mediated podocyte cell-matrix interactions. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 310, F1123-35	4.3	5
25	Assessment of ICAM-1 N-glycoforms in mouse and human models of endothelial dysfunction. <i>PLoS ONE</i> , <b>2020</b> , 15, e0230358	3.7	4
24	Decreased bioavailability of hydrogen sulfide links vascular endothelium and atrial remodeling in atrial fibrillation. <i>Redox Biology</i> , <b>2021</b> , 38, 101817	11.3	4
23	Cardiovascular disease is obNOXious: New insights into NoxA1 in smooth muscle phenotype. <i>Redox Biology</i> , <b>2019</b> , 22, 101081	11.3	3
22	Nck1, But Not Nck2, Mediates Disturbed Flow-Induced p21-Activated Kinase Activation and Endothelial Permeability. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e016099	6	3
21	Thrombin-Par1 signaling axis disrupts COP9 signalosome subunit 3-mediated ABCA1 stabilization in inducing foam cell formation and atherogenesis. <i>Cell Death and Differentiation</i> , <b>2021</b> , 28, 780-798	12.7	3
20	EphA2 signaling within integrin adhesions regulates fibrillar adhesion elongation and fibronectin deposition. <i>Matrix Biology</i> , <b>2021</b> , 103-104, 1-21	11.4	2
19	Gene Transfer Induced Hypercholesterolemia in Amyloid Mice. <i>Journal of Alzheimer's Disease</i> , <b>2018</b> , 65, 1079-1086	4.3	1
18	Pathogenesis of Atherosclerosis: From Cell Biology to Therapeutics. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , <b>2014</b> , 6, 1-125		1
17	Selective role of Nck1 in atherogenic inflammation and plaque formation		1
16	The Physiological Function of Sigmar1 in the Skeletal Muscle in Mice. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	1
15	Integrin affinity modulation critically regulates atherogenic endothelial activation in vitro and in vivo. <i>Matrix Biology</i> , <b>2021</b> , 96, 87-103	11.4	1
14	The molecular role of Sigmar1 in regulating mitochondrial function through mitochondrial localization in cardiomyocytes. <i>Mitochondrion</i> , <b>2021</b> , 62, 159-175	4.9	0

13	Glucocorticoid Inhibition of Estrogen Regulation of the Serotonin Receptor 2B in Cardiomyocytes Exacerbates Cell Death in Hypoxia/Reoxygenation Injury. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e015868	6	0
12	Quantification of Integrin Activation and Ligation in Adherent Cells. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2217, 17-25	1.4	
11	Matrix-specific p21-activated kinase activation regulates vascular permeability in atherogenesis. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, i7-i7	16.6	
10	Matrix-specific PAK activation regulates vascular permeability in atherosclerosis. <i>FASEB Journal</i> , <b>2007</b> , 21, A268	0.9	
9	Matrix-Specific JNK Activation by Flow. <i>FASEB Journal</i> , <b>2007</b> , 21, A269	0.9	
8	LMCD1 acts as a coactivator for E2F1 in CDC6 expression to promote human aortic smooth muscle cell replication and atherogenesis. <i>FASEB Journal</i> , <b>2018</b> , 32, 864.12	0.9	
7	Polarized Intracellular Endothelial Pannexin 3 Can Regulate Vascular Function. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
6	Metabolic Alterations in Cardiomyocytes are Associated with Methamphetamine-Induced Cardiomyopathy. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
5	Attenuation of Experimental Atherosclerosis by Interleukin-19. <i>FASEB Journal</i> , <b>2013</b> , 27, 869.7	0.9	
4	Assessment of ICAM-1 N-glycoforms in mouse and human models of endothelial dysfunction <b>2020</b> , 15, e0230358		
3	Assessment of ICAM-1 N-glycoforms in mouse and human models of endothelial dysfunction <b>2020</b> , 15, e0230358		
2	Assessment of ICAM-1 N-glycoforms in mouse and human models of endothelial dysfunction <b>2020</b> , 15, e0230358		
1	Assessment of ICAM-1 N-glycoforms in mouse and human models of endothelial dysfunction <b>2020</b> , 15, e0230358		