Masanori Aikawa

List of Publications by Citations

173 papers	16,527 citations	62 h-index	127 g-index
210 ext. papers	18,421 ext. citations	9.8 avg, IF	6.1 L-index

#	Paper	IF	Citations
173	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part I. *Circulation*, **2003**, 108, 1664-72	16.7	1985
172	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part II. *Circulation*, **2003**, 108, 1772-8	16.7	886
171	Targeted deletion of matrix metalloproteinase-9 attenuates left ventricular enlargement and collagen accumulation after experimental myocardial infarction. *Journal of Clinical Investigation*, **2000**, 106, 55-62	15.9	626
170	An HMG-CoA reductase inhibitor, cerivastatin, suppresses growth of macrophages expressing matrix metalloproteinases and tissue factor in vivo and in vitro. *Circulation*, **2001**, 103, 276-83	16.7	501
169	Osteogenesis associates with inflammation in early-stage atherosclerosis evaluated by molecular imaging in vivo. *Circulation*, **2007**, 116, 2841-50	16.7	486
168	Lipid lowering by diet reduces matrix metalloproteinase activity and increases collagen content of rabbit atheroma: a potential mechanism of lesion stabilization. *Circulation*, **1998**, 97, 2433-44	16.7	481
167	Activated interstitial myofibroblasts express catabolic enzymes and mediate matrix remodeling in myxomatous heart valves. *Circulation*, **2001**, 104, 2525-32	16.7	466
166	Stabilization of atherosclerotic plaques: new mechanisms and clinical targets. *Nature Medicine*, **2002**, 8, 1257-62	50.5	461
165	Host bone-marrow cells are a source of donor intimal smooth- muscle-like cells in murine aortic transplant arteriopathy. *Nature Medicine*, **2001**, 7, 738-41	50.5	412
164	Matrix metalloproteinase inhibition attenuates early left ventricular enlargement after experimental myocardial infarction in mice. *Circulation*, **1999**, 99, 3063-70	16.7	397
163	Macrophage-derived matrix vesicles: an alternative novel mechanism for microcalcification in atherosclerotic plaques. *Circulation Research*, **2013**, 113, 72-7	15.7	380
162	Macrophages and atherosclerotic plaque stability. *Current Opinion in Lipidology*, **1996**, 7, 330-5	4.4	373
161	Inflammation in atherosclerosis: visualizing matrix metalloproteinase action in macrophages in vivo. *Circulation*, **2006**, 114, 55-62	16.7	356
160	Statins alter smooth muscle cell accumulation and collagen content in established atheroma of watanabe heritable hyperlipidemic rabbits. *Circulation*, **2001**, 103, 993-9	16.7	329
159	Multimodality molecular imaging identifies proteolytic and osteogenic activities in early aortic valve disease. *Circulation*, **2007**, 115, 377-86	16.7	325
158	Hypochlorous acid, a macrophage product, induces endothelial apoptosis and tissue factor expression: involvement of myeloperoxidase-mediated oxidant in plaque erosion and thrombogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2004**, 24, 1309-14	9.4	325
157	Human semilunar cardiac valve remodeling by activated cells from fetus to adult: implications for postnatal adaptation, pathology, and tissue engineering. *Circulation*, **2006**, 113, 1344-52	16.7	319

156	Arterial and aortic valve calcification abolished by elastolytic cathepsin S deficiency in chronic renal disease. *Circulation*, **2009**, 119, 1785-94	16.7	245
155	Dynamic and reversible changes of interstitial cell phenotype during remodeling of cardiac valves. *Journal of Heart Valve Disease*, **2004**, 13, 841-7		244
154	Apolipoprotein CIII induces expression of vascular cell adhesion molecule-1 in vascular endothelial cells and increases adhesion of monocytic cells. *Circulation*, **2006**, 114, 681-7	16.7	216
153	Genesis and growth of extracellular-vesicle-derived microcalcification in atherosclerotic plaques. *Nature Materials*, **2016**, 15, 335-43	27	198
152	The vulnerable atherosclerotic plaque: pathogenesis and therapeutic approach. *Cardiovascular Pathology*, **2004**, 13, 125-38	3.8	191
151	CD40 ligand mediates inflammation independently of CD40 by interaction with Mac-1. *Circulation*, **2007**, 115, 1571-80	16.7	176
150	Lipid lowering reduces oxidative stress and endothelial cell activation in rabbit atheroma. *Circulation*, **2002**, 106, 1390-6	16.7	176
149	Delta-like 4 induces notch signaling in macrophages: implications for inflammation. *Circulation*, **2007**, 115, 2948-56	16.7	169
148	Matrix metalloproteinase-13/collagenase-3 deletion promotes collagen accumulation and organization in mouse atherosclerotic plaques. *Circulation*, **2005**, 112, 2708-15	16.7	169
147	Apolipoprotein CIII in apolipoprotein B lipoproteins enhances the adhesion of human monocytic cells to endothelial cells. *Circulation*, **2006**, 113, 691-700	16.7	168
146	Selective matrix metalloproteinase inhibition reduces left ventricular remodeling but does not inhibit angiogenesis after myocardial infarction. *Circulation*, **2002**, 105, 753-8	16.7	168
145	Mechanisms of plaque stabilization with statins. *American Journal of Cardiology*, **2003**, 91, 4B-8B	3	149
144	Sortilin mediates vascular calcification via its recruitment into extracellular vesicles. *Journal of Clinical Investigation*, **2016**, 126, 1323-36	15.9	141
143	High-resolution magnetic resonance imaging enhanced with superparamagnetic nanoparticles measures macrophage burden in atherosclerosis. *Circulation*, **2010**, 122, 1707-15	16.7	138
142	BTEB2, a Krüppel-like transcription factor, regulates expression of the SMemb/Nonmuscle myosin heavy chain B (SMemb/NMHC-B) gene. *Circulation Research*, **1999**, 85, 182-91	15.7	127
141	Lipid lowering promotes accumulation of mature smooth muscle cells expressing smooth muscle myosin heavy chain isoforms in rabbit atheroma. *Circulation Research*, **1998**, 83, 1015-26	15.7	124
140	Dietary lipid lowering reduces tissue factor expression in rabbit atheroma. *Circulation*, **1999**, 100, 1215-22	16.7	124
139	Notch ligand delta-like 4 blockade attenuates atherosclerosis and metabolic disorders. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E1868-77	11.5	121

138	PARP9 and PARP14 cross-regulate macrophage activation via STAT1 ADP-ribosylation. *Nature Communications*, **2016**, 7, 12849	17.4	120
137	Clinical pulmonary autograft valves: pathologic evidence of adaptive remodeling in the aortic site. *Journal of Thoracic and Cardiovascular Surgery*, **2004**, 128, 552-61	1.5	119
136	Free cholesterol accumulation in macrophage membranes activates Toll-like receptors and p38 mitogen-activated protein kinase and induces cathepsin K. *Circulation Research*, **2009**, 104, 455-65	15.7	116
135	Characterization of human atherosclerotic plaques by intravascular magnetic resonance imaging. *Circulation*, **2005**, 112, 2324-31	16.7	110
134	Matrix-metalloproteinase-14 deficiency in bone-marrow-derived cells promotes collagen accumulation in mouse atherosclerotic plaques. *Circulation*, **2008**, 117, 931-9	16.7	103
133	Spatiotemporal Multi-Omics Mapping Generates a Molecular Atlas of the Aortic Valve and Reveals Networks Driving Disease. *Circulation*, **2018**, 138, 377-393	16.7	102
132	The coronavirus macrodomain is required to prevent PARP-mediated inhibition of virus replication and enhancement of IFN expression. *PLoS Pathogens*, **2019**, 15, e1007756	7.6	93
131	Selective inhibition of matrix metalloproteinase-13 increases collagen content of established mouse atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 2464-72	9.4	89
130	Direct anti-inflammatory mechanisms contribute to attenuation of experimental allograft arteriosclerosis by statins. *Circulation*, **2003**, 108, 2113-20	16.7	88
129	Redifferentiation of smooth muscle cells after coronary angioplasty determined via myosin heavy chain expression. *Circulation*, **1997**, 96, 82-90	16.7	84
128	Evolution of cell phenotype and extracellular matrix in tissue-engineered heart valves during in-vitro maturation and in-vivo remodeling. *Journal of Heart Valve Disease*, **2002**, 11, 308-14; discussion 314		83
127	Biomechanical strain induces class a scavenger receptor expression in human monocyte/macrophages and THP-1 cells: a potential mechanism of increased atherosclerosis in hypertension. *Circulation*, **2001**, 104, 109-14	16.7	82
126	TRAF-1, -2, -3, -5, and -6 are induced in atherosclerotic plaques and differentially mediate proinflammatory functions of CD40L in endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 1101-7	9.4	81
125	Apolipoprotein CIII-induced THP-1 cell adhesion to endothelial cells involves pertussis toxin-sensitive G protein- and protein kinase C alpha-mediated nuclear factor-kappaB activation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 219-25	9.4	81
124	MRI of rabbit atherosclerosis in response to dietary cholesterol lowering. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 1956-9	9.4	81
123	The impact of PARPs and ADP-ribosylation on inflammation and host-pathogen interactions. *Genes and Development*, **2020**, 34, 341-359	12.6	78
122	Characterization of smooth muscle-like cells in circulating human peripheral blood. *Atherosclerosis*, **2006**, 187, 351-62	3.1	73
121	Prostaglandin E receptor type 4-associated protein interacts directly with NF-kappaB1 and attenuates macrophage activation. *Journal of Biological Chemistry*, **2008**, 283, 9692-703	5.4	70

120	Genetically determined resistance to collagenase action augments interstitial collagen accumulation in atherosclerotic plaques. *Circulation*, **2004**, 110, 1953-9	16.7	70
119	New insights into plaque stabilisation by lipid lowering. *Drugs*, **1998**, 56 Suppl 1, 9-13; discussion 33	12.1	70
118	Inflammatory cytokines cause coronary arteriosclerosis-like changes and alterations in the smooth-muscle phenotypes in pigs. *Journal of Cardiovascular Pharmacology*, **1997**, 29, 222-31	3.1	69
117	Toll-like receptor 2 mediates apolipoprotein CIII-induced monocyte activation. *Circulation Research*, **2008**, 103, 1402-9	15.7	68
116	Statin-induced Krüppel-like factor 2 expression in human and mouse T cells reduces inflammatory and pathogenic responses. *Journal of Clinical Investigation*, **2010**, 120, 1961-70	15.9	68
115	Increased plasma oxidized phospholipid:apolipoprotein B-100 ratio with concomitant depletion of oxidized phospholipids from atherosclerotic lesions after dietary lipid-lowering: a potential biomarker of early atherosclerosis regression. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 175-81	9.4	65
114	Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and Dll4-Notch Signaling. *Circulation*, **2019**, 139, 78-96	16.7	65
113	The selective peroxisome proliferator-activated receptor alpha modulator (SPPARMα) paradigm: conceptual framework and therapeutic potential : A consensus statement from the International Atherosclerosis Society (IAS) and the Residual Risk Reduction Initiative (R3i) Foundation. *Cardiovascular Diabetology*, **2019**, 18, 71	8.7	64
112	Inhibited aortic aneurysm formation in BLT1-deficient mice. *Journal of Immunology*, **2007**, 179, 691-7	5.3	63
111	Statins suppress apolipoprotein CIII-induced vascular endothelial cell activation and monocyte adhesion. *European Heart Journal*, **2013**, 34, 615-24	9.5	60
110	Engineering a 3D-Bioprinted Model of Human Heart Valve Disease Using Nanoindentation-Based Biomechanics. *Nanomaterials*, **2018**, 8,	5.4	59
109	A single injection of gain-of-function mutant PCSK9 adeno-associated virus vector induces cardiovascular calcification in mice with no genetic modification. *Atherosclerosis*, **2016**, 251, 109-118	3.1	58
108	Dynamin-Related Protein 1 Inhibition Attenuates Cardiovascular Calcification in the Presence of Oxidative Stress. *Circulation Research*, **2017**, 121, 220-233	15.7	57
107	F-Fluoride Signal Amplification Identifies Microcalcifications Associated With Atherosclerotic Plaque Instability in Positron Emission Tomography/Computed Tomography Images. *Circulation: Cardiovascular Imaging*, **2019**, 12, e007835	3.9	56
106	Endophenotype Network Models: Common Core of Complex Diseases. *Scientific Reports*, **2016**, 6, 27414	4.9	55
105	Nonmuscle and smooth muscle myosin heavy chain expression in rejected cardiac allografts. A study in rat and monkey models. *Circulation*, **1996**, 94, 1118-24	16.7	54
104	CADASIL mutations impair Notch3 glycosylation by Fringe. *Human Molecular Genetics*, **2005**, 14, 1631-9	5.6	49
103	Genetically engineered resistance for MMP collagenases promotes abdominal aortic aneurysm formation in mice infused with angiotensin II. *Laboratory Investigation*, **2009**, 89, 315-26	5.9	48

102	Selective cathepsin S inhibition attenuates atherosclerosis in apolipoprotein E-deficient mice with chronic renal disease. *American Journal of Pathology*, **2015**, 185, 1156-66	5.8	47
101	Is Toll-like receptor 4 involved in the severity of COVID-19 pathology in patients with cardiometabolic comorbidities?. *Cytokine and Growth Factor Reviews*, **2021**, 58, 102-110	17.9	46
100	Echocardiography-derived left ventricular end-systolic regional wall stress and matrix remodeling after experimental myocardial infarction. *Journal of the American College of Cardiology*, **1999**, 33, 835-42	15.1	44
99	Effect of probucol on smooth muscle cell proliferation and dedifferentiation after vascular injury in rabbits: possible role of PDGF. *Cardiovascular Drugs and Therapy*, **1998**, 12, 251-60	3.9	42
98	Macrophage Notch Ligand Delta-Like 4 Promotes Vein Graft Lesion Development: Implications for the Treatment of Vein Graft Failure. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 2343-2353	9.4	38
97	Effects of statins in reducing thrombotic risk and modulating plaque vulnerability. *Clinical Cardiology*, **2003**, 26, I11-4	3.3	38
96	New CETP inhibitor K-312 reduces PCSK9 expression: a potential effect on LDL cholesterol metabolism. *American Journal of Physiology - Endocrinology and Metabolism*, **2015**, 309, E177-90	6	35
95	Enrichment of calcifying extracellular vesicles using density-based ultracentrifugation protocol. *Journal of Extracellular Vesicles*, **2014**, 3, 25129	16.4	35
94	Chronic hypoxia activates the Akt and beta-catenin pathways in human macrophages. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 1664-70	9.4	34
93	Serum Sortilin Associates With Aortic Calcification and Cardiovascular Risk in Men. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 1005-1011	9.4	33
92	Delta-Like Ligand 4-Notch Signaling in Macrophage Activation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 2038-47	9.4	33
91	Crosstalk between macrophages and smooth muscle cells in atherosclerotic vascular diseases. *Vascular Pharmacology*, **2012**, 57, 24-8	5.9	32
90	Endothelial CD47 promotes vascular endothelial-cadherin tyrosine phosphorylation and participates in T cell recruitment at sites of inflammation in vivo. *Journal of Immunology*, **2012**, 189, 2553-62	5.3	32
89	Lipid lowering reduces proteolytic and prothrombotic potential in rabbit atheroma. *Annals of the New York Academy of Sciences*, **2000**, 902, 140-52	6.5	32
88	Cystathionine γ-lyase accelerates osteoclast differentiation: identification of a novel regulator of osteoclastogenesis by proteomic analysis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 626-34	9.4	31
87	Vitamin C, collagen, and cracks in the plaque. *Circulation*, **2002**, 105, 1396-8	16.7	30
86	Smooth muscle phenotypes in developing and atherosclerotic human arteries demonstrated by myosin expression. *Journal of Atherosclerosis and Thrombosis*, **1995**, 2, 14-23	4	29
85	Multiple apolipoprotein kinetics measured in human HDL by high-resolution/accurate mass parallel reaction monitoring. *Journal of Lipid Research*, **2016**, 57, 714-28	6.3	28

84	Angiopoietin Like Protein 2 (ANGPTL2) Promotes Adipose Tissue Macrophage and T lymphocyte Accumulation and Leads to Insulin Resistance. *PLoS ONE*, **2015**, 10, e0131176	3.7	28
83	Liberation of desmosine and isodesmosine as amino acids from insoluble elastin by elastolytic proteases. *Biochemical and Biophysical Research Communications*, **2011**, 411, 281-6	3.4	28
82	Effect of a cleavage-resistant collagen mutation on left ventricular remodeling. *Circulation Research* , **2003**, 93, 238-45	15.7	28
81	Lipid lowering improves endothelial functions. *International Journal of Cardiology*, **2000**, 74 Suppl 1, S3-S10	3.2	28
80	Regulation of the Thrombotic Potential of Atheroma. *Thrombosis and Haemostasis*, **1999**, 82, 736-741	7	28
79	Annexin A1-dependent tethering promotes extracellular vesicle aggregation revealed with single-extracellular vesicle analysis. *Science Advances*, **2020**, 6,	14.3	27
78	Standardization of Human Calcific Aortic Valve Disease Modeling Reveals Passage-Dependent Calcification. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 49	5.4	26
77	Isolation of the embryonic form of smooth muscle myosin heavy chain (SMemb/NMHC-B) gene and characterization of its 5Sflanking region. *Biochemical and Biophysical Research Communications*, **1997**, 239, 598-605	3.4	26
76	Preferential differentiation of P19 mouse embryonal carcinoma cells into smooth muscle cells. Use of retinoic acid and antisense against the central nervous system-specific POU transcription factor Brn-2. *Circulation Research*, **1996**, 78, 395-404	15.7	26
75	Dimerization of sortilin regulates its trafficking to extracellular vesicles. *Journal of Biological Chemistry*, **2018**, 293, 4532-4544	5.4	25
74	Embryonic smooth muscle myosin heavy chain SMemb is expressed in pressure-overloaded cardiac fibroblasts. *International Heart Journal*, **1999**, 40, 803-18		25
73	Lipid lowering therapy in atherosclerosis. *Seminars in Vascular Medicine*, **2004**, 4, 357-66		24
72	Diversity and variability of smooth muscle phenotypes of renal arterioles as revealed by myosin isoform expression. *Kidney International*, **1995**, 48, 372-82	9.9	24
71	Pulmonary expression of vascular endothelial growth factor and myosin isoforms in rats with congenital diaphragmatic hernia. *Journal of Pediatric Surgery*, **1997**, 32, 391-4	2.6	23
70	Structure and characterization of the 5Sflanking region of the mouse smooth muscle myosin heavy chain (SM1/2) gene. *Circulation Research*, **1996**, 78, 978-89	15.7	23
69	Phenotypic modulation of smooth muscle cells during progression of human atherosclerosis as determined by altered expression of myosin heavy chain isoforms. *Annals of the New York Academy of Sciences*, **1995**, 748, 578-85	6.5	22
68	Evolution and stabilization of vulnerable atherosclerotic plaques. *Japanese Circulation Journal*, **2001**, 65, 473-9		22
67	Atherosclerotic plaque inflammation: the final frontier?. *Canadian Journal of Cardiology*, **2004**, 20, 631-4	3.8	22

66	S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 1838-1853	9.4	21
65	Macrophages in Vascular Inflammation: Origins and Functions. *Current Atherosclerosis Reports*, **2016** , 18, 34	6	21
64	Expanding role of delta-like 4 mediated notch signaling in cardiovascular and metabolic diseases. *Circulation Journal*, **2013**, 77, 2462-8	2.9	19
63	Expression of a nonmuscle myosin heavy chain in glomerular cells differentiates various types of glomerular disease in rats. *Kidney International*, **1996**, 49, 1231-41	9.9	16
62	Sphingosine 1-phosphate-regulated transcriptomes in heterogenous arterial and lymphatic endothelium of the aorta. *ELife*, **2020**, 9,	8.9	16
61	Insulin Dissociates the Effects of Liver X Receptor on Lipogenesis, Endoplasmic Reticulum Stress, and Inflammation. *Journal of Biological Chemistry*, **2016**, 291, 1115-22	5.4	14
60	Dynamic Macrophages: Understanding Mechanisms of Activation as Guide to Therapy for Atherosclerotic Vascular Disease. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 97	5.4	14
59	Controllability in an islet specific regulatory network identifies the transcriptional factor NFATC4, which regulates Type 2 Diabetes associated genes. *Npj Systems Biology and Applications*, **2018**, 4, 25	5	14
58	A Study into the ADP-Ribosylome of IFN-β Stimulated THP-1 Human Macrophage-like Cells Identifies ARTD8/PARP14 and ARTD9/PARP9 ADP-Ribosylation. *Journal of Proteome Research*, **2019**, 18, 1607-1622	5.6	13
57	Effects of statin therapy on vascular dysfunction. *Coronary Artery Disease*, **2004**, 15, 227-33	1.4	12
56	Plasma pentraxin 3 levels do not predict coronary events but reflect metabolic disorders in patients with coronary artery disease in the CARE trial. *PLoS ONE*, **2014**, 9, e94073	3.7	12
55	The role of smooth muscle cell differentiation in the mechanism of obliteration of processus vaginalis. *Journal of Pediatric Surgery*, **2004**, 39, 1018-23	2.6	11
54	Comprehensive epigenome characterization reveals diverse transcriptional regulation across human vascular endothelial cells. *Epigenetics and Chromatin*, **2019**, 12, 77	5.8	11
53	ApoC-III is a novel inducer of calcification in human aortic valves. *Journal of Biological Chemistry*, **2021**, 296, 100193	5.4	11
52	Unbiased and targeted mass spectrometry for the HDL proteome. *Current Opinion in Lipidology*, **2017**, 28, 68-77	4.4	10
51	Pitavastatin Reduces Inflammation in Atherosclerotic Plaques in Apolipoprotein E-Deficient Mice with Late Stage Renal Disease. *PLoS ONE*, **2015**, 10, e0138047	3.7	10
50	A novel quantitative approach for eliminating sample-to-sample variation using a hue saturation value analysis program. *PLoS ONE*, **2014**, 9, e89627	3.7	10
49	Harnessing Single-Cell RNA Sequencing to Better Understand How Diseased Cells Behave the Way They Do in Cardiovascular Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 585-600	9.4	10

48	Transcriptional control of intestinal cholesterol absorption, adipose energy expenditure and lipid handling by Sortilin. *Scientific Reports*, **2018**, 8, 9006	4.9	9
47	Gene Expression Profiling Reveals the Shared and Distinct Transcriptional Signatures in Human Lung Epithelial Cells Infected With SARS-CoV-2, MERS-CoV, or SARS-CoV: Potential Implications in Cardiovascular Complications of COVID-19. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 623012	5.4	9
46	CROT (Carnitine O-Octanoyltransferase) Is a Novel Contributing Factor in Vascular Calcification via Promoting Fatty Acid Metabolism and Mitochondrial Dysfunction. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 755-768	9.4	9
45	Effects of Replacing Dietary Monounsaturated Fat With Carbohydrate on HDL (High-Density Lipoprotein) Protein Metabolism and Proteome Composition in Humans. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 2411-2430	9.4	8
44	Glomerular expression of smooth-muscle myosin heavy-chain isoforms in aminonucleoside nephrosis in rats. *Clinical Science*, **1995**, 89, 45-52	6.5	8
43	Retinoids Repress Human Cardiovascular Cell Calcification With Evidence for Distinct Selective Retinoid Modulator Effects. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 656-669	9.4	8
42	XINA: A Workflow for the Integration of Multiplexed Proteomics Kinetics Data with Network Analysis. *Journal of Proteome Research*, **2019**, 18, 775-781	5.6	8
41	Patient hiPSCs Identify Vascular Smooth Muscle Arylacetamide Deacetylase as Protective against Atherosclerosis. *Cell Stem Cell*, **2020**, 27, 147-157.e7	18	7
40	Current Trends and Future Perspectives of State-of-the-Art Proteomics Technologies Applied to Cardiovascular Disease Research. *Circulation Journal*, **2016**, 80, 1674-83	2.9	7
39	Cardiovascular inflammation. *International Journal of Inflammation*, **2012**, 2012, 904608	6.4	7
38	Context-enriched interactome powered by proteomics helps the identification of novel regulators of macrophage activation. *ELife*, **2018**, 7,	8.9	7
37	Quantification of Calcified Particles in Human Valve Tissue Reveals Asymmetry of Calcific Aortic Valve Disease Development. *Frontiers in Cardiovascular Medicine*, **2016**, 3, 44	5.4	7
36	mIMT-visHTS: A novel method for multiplexing isobaric mass tagged datasets with an accompanying visualization high throughput screening tool for protein profiling. *Journal of Proteomics*, **2015**, 128, 132-40	3.9	6
35	Mass spectrometry meets the challenge of understanding the complexity of the lipoproteome: recent findings regarding proteins involved in dyslipidemia and cardiovascular disease. *Expert Review of Proteomics*, **2015**, 12, 519-32	4.2	6
34	Cardiovascular Inflammation 2012: Reactive Oxygen Species, SUMOylation, and Biomarkers in Cardiovascular Inflammation. *International Journal of Inflammation*, **2013**, 2013, 953463	6.4	6
33	Dynamin-related protein 1 inhibition reduces hepatic PCSK9 secretion. *Cardiovascular Research*, **2021**, 117, 2340-2353	9.9	6
32	Systems Approach to Discovery of Therapeutic Targets for Vein Graft Disease: PPARγ Pivotally Regulates Metabolism, Activation, and Heterogeneity of Macrophages and Lesion Development. *Circulation*, **2021**, 143, 2454-2470	16.7	5
31	Nanoanalytical analysis of bisphosphonate-driven alterations of microcalcifications using a 3D hydrogel system and in vivo mouse model. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4

30	Automation of PRM-dependent D3-Leu tracer enrichment in HDL to study the metabolism of apoA-I, LCAT and other apolipoproteins. *Proteomics*, **2017**, 17, 1600085	4.8	3
29	-acetylglucosamine-1-Phosphate Transferase Suppresses Lysosomal Hydrolases in Dysfunctional Osteoclasts: A Potential Mechanism for Vascular Calcification. *Journal of Cardiovascular Development and Disease*, **2015**, 2, 31-47	4.2	3
28	The balance of power: the law of Yin and Yang in smooth muscle cell fate. Is YY1 a vascular protector?. *Circulation Research*, **2007**, 101, 111-3	15.7	3
27	Lipoprotein(a) Induces Vesicular Cardiovascular Calcification Revealed With Single-Extracellular Vesicle Analysis.. *Frontiers in Cardiovascular Medicine*, **2022**, 9, 778919	5.4	3
26	Application of anti-ligand antibodies to inhibit Notch signaling. *Methods in Molecular Biology*, **2014**, 1187, 335-42	1.4	3
25	Metabolism of PLTP, CETP, and LCAT on multiple HDL sizes using the Orbitrap Fusion Lumos. *JCI Insight*, **2021**, 6,	9.9	3
24	Residual vascular risk in diabetes - Will the SPPARM alpha concept hold the key?. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, **2019**, 13, 2723-2725	8.9	2
23	Vascular biology of collagenases in vulnerable atherosclerotic plaques. *International Congress Series* , **2004**, 1262, 67-70		2
22	Conserved and Divergent Modulation of Calcification in Atherosclerosis and Aortic Valve Disease by Tissue Extracellular Vesicles		2
21	A disease-driver population within interstitial cells of human calcific aortic valves identified via single-cell and proteomic profiling.. *Cell Reports*, **2022**, 39, 110685	10.6	2
20	A durable murine model of spleen transplantation with arterial and venous anastomoses. *Scientific Reports*, **2020**, 10, 3979	4.9	1
19	Molecular Imaging of Macrophages in Atherosclerosis. *Current Cardiovascular Imaging Reports*, **2012** , 5, 45-52	0.7	1
18	Presence of contractile-type smooth muscle cells in the endocardium. *Cardiology*, **1996**, 87, 23-7	1.6	1
17	Computational Screening Strategy for Drug Repurposing Identified Niclosamide as Inhibitor of Vascular Calcification.. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 826529	5.4	1
16	Apolipoproteins and Cell Adhesion Molecules **2010**, 429-445		1
15	Highly Selective PPAR (Peroxisome Proliferator-Activated Receptor) Agonist Pemafibrate Inhibits Stent Inflammation and Restenosis Assessed by Multimodality Molecular-Microstructural Imaging. *Journal of the American Heart Association*, **2021**, 10, e020834	6	1
14	Target Discovery in Calcification Through Omics and Systems Approaches. *Contemporary Cardiology* , **2020**, 525-551	0.1	1
13	Molecular Imaging of Macrophages in Atherosclerosis **2015**, 65-78		1

12	Controllability in an islet specific regulatory network identifies the transcriptional factor NFATC4, which regulates Type 2 Diabetes associated genes		1
11	Elastogenesis Correlates With Pigment Production in Murine Aortic Valve Leaflets. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 678401	5.4	1
10	A Novel Spectral Annotation Strategy Streamlines Reporting of mono-ADP-ribosylated Peptides Derived from Mouse Liver and Spleen in Response to IFN-*Molecular and Cellular Proteomics*, **2021**, 100153	7.6	1
9	After 50 Years of Heart Transplants: What Does the Next 50 Years Hold for Cardiovascular Medicine? A Perspective From the International Society for Applied Cardiovascular Biology. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 8	5.4	0
8	Proinflammatory Matrix Metalloproteinase-1 Associates With Mitral Valve Leaflet Disruption Following Percutaneous Mitral Valvuloplasty.. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 804111	5.4	0
7	Multiorgan Systems Study Reveals Igfbp7 as a Suppressor of Gluconeogenesis after Gastric Bypass Surgery. *Journal of Proteome Research*, **2020**, 19, 129-143	5.6	0
6	Prothymosin Alpha: A Novel Contributor to Estradiol Receptor Alpha-Mediated CD8 T-Cell Pathogenic Responses and Recognition of Type 1 Collagen in Rheumatic Heart Valve Disease.. *Circulation*, **2022**, 145, 531-548	16.7	0
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