Manuel Mayr

List of Publications by Year
in descending order

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266	25,302	4641	7931
papers	citations	85 h-index	149 g-index

274	274	274	33069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plasma MicroRNA Profiling Reveals Loss of Endothelial MiR-126 and Other MicroRNAs in Type 2 Diabetes. Circulation Research, 2010, 107, 810-817.	2.0	1,280
2	Atheroprotective communication between endothelial cells and smooth muscle cells through miRNAs. Nature Cell Biology, 2012, 14, 249-256.	4.6	1,170
3	Cardiac fibroblastâ€“derived microRNA passenger strand-enriched exosomes mediate cardiomyocyte hypertrophy. Journal of Clinical Investigation, 2014, 124, 2136-2146.	3.9	803
4	Cardioprotection and lifespan extension by the natural polyamine spermidine. Nature Medicine, 2016, 22, 1428-1438.	15.2	801
5	Serum Soluble Heat Shock Protein 60 Is Elevated in Subjects With Atherosclerosis in a General Population. Circulation, 2000, 102, 14-20.	1.6	563
6	Chronic Infections and the Risk of Carotid Atherosclerosis. Circulation, 2001, 103, 1064-1070.	1.6	491
7	Lipidomics Profiling and Risk of Cardiovascular Disease in the Prospective Population-Based Bruneck Study. Circulation, 2014, 129, 1821-1831.	1.6	445
8	Prospective Study on Circulating MicroRNAs and Risk of Myocardial Infarction. Journal of the American College of Cardiology, 2012, 60, 290-299.	1.2	419
9	Vascular Smooth Muscle Cell Calcification Is Mediated by Regulated Exosome Secretion. Circulation Research, 2015, 116, 1312-1323.	2.0	419
10	Native T1 Mapping in Differentiation of Normal Myocardium From Diffuse Disease in Hypertrophic and Dilated Cardiomyopathy. JACC: Cardiovascular Imaging, 2013, 6, 475-484.	2.3	386
11	Circulating MicroRNAs as Novel Biomarkers for Platelet Activation. Circulation Research, 2013, 112, 595-600.	2.0	366
12	MicroRNAs in Cardiovascular Disease. Journal of the American College of Cardiology, 2016, 68, 2577-2584.	1.2	341
13	Calcium Regulates Key Components of Vascular Smooth Muscle Cellâ€“Derived Matrix Vesicles to Enhance Mineralization. Circulation Research, 2011, 109, e1-12.	2.0	329
14	The â€˜Digital Twinâ€™ to enable the vision of precision cardiology. European Heart Journal, 2020, 41, 4556-4564.	1.0	319
15	Endothelial Cytotoxicity Mediated by Serum Antibodies to Heat Shock Proteins of Escherichia coli and Chlamydia pneumoniae. Circulation, 1999, 99, 1560-1566.	1.6	293
16	Infections, Immunity, and Atherosclerosis. Circulation, 2000, 102, 833-839.	1.6	285
17	Mitochondria and ageing: role in heart, skeletal muscle and adipose tissue. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 349-369.	2.9	279
18	Proteomic analysis reveals presence of platelet microparticles in endothelial progenitor cell cultures. Blood, 2009, 114, 723-732.	0.6	262

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19	Proteomics Characterization of Extracellular Space Components in the Human Aorta. Molecular and Cellular Proteomics, 2010, 9, 2048-2062.	2.5	242
20	Association of Serum Antibodies to Heat-Shock Protein 65 With Carotid Atherosclerosis. Circulation, 1999, 100, 1169-1174.	1.6	236
21	Profiling of circulating microRNAs: from single biomarkers to re-wired networks. Cardiovascular Research, 2012, 93, 555-562.	1.8	232
22	Discrimination and Net Reclassification of Cardiovascular Risk With Lipoprotein(a). Journal of the American College of Cardiology, 2014, 64, 851-860.	1.2	231
23	Macrophage MicroRNA-155 Promotes Cardiac Hypertrophy and Failure. Circulation, 2013, 128, 1420-1432.	1.6	225
24	MicroRNAs in Vascular and Metabolic Disease. Circulation Research, 2012, 110, 508-522.	2.0	223
25	Oxidized Phospholipids, Lipoprotein(a), Lipoprotein-Associated Phospholipase A2 Activity, and 10-Year Cardiovascular Outcomes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1788-1795.	1.1	220
26	Extracellular Matrix Composition and Remodeling in Human Abdominal Aortic Aneurysms: A Proteomics Approach. Molecular and Cellular Proteomics, 2011, 10, M111.008128.	2.5	213
27	Exacerbated vein graft arteriosclerosis in protein kinase CÎ´â€“null mice. Journal of Clinical Investigation, 2001, 108, 1505-1512.	3.9	212
28	Combined Metabolomic and Proteomic Analysis of Human Atrial Fibrillation. Journal of the American College of Cardiology, 2008, 51, 585-594.	1.2	202
29	Circulating MicroRNA-122 Is Associated With the Risk of New-Onset Metabolic Syndrome and Type 2 Diabetes. Diabetes, 2017, 66, 347-357.	0.3	199
30	The Hypoxia-Inducible MicroRNA Cluster miR-199aâˆ¼214 Targets Myocardial PPARÎ´ and Impairs Mitochondrial Fatty Acid Oxidation. Cell Metabolism, 2013, 18, 341-354.	7.2	193
31	Proteomics Analysis of Cardiac Extracellular Matrix Remodeling in a Porcine Model of Ischemia/Reperfusion Injury. Circulation, 2012, 125, 789-802.	1.6	191
32	Smooth Muscle Cells in Transplant Atherosclerotic Lesions Are Originated From Recipients, but Not Bone Marrow Progenitor Cells. Circulation, 2002, 106, 1834-1839.	1.6	188
33	Oxidation-Specific Biomarkers, Prospective 15-Year Cardiovascular and Stroke Outcomes, and Net Reclassification of Cardiovascular Events. Journal of the American College of Cardiology, 2012, 60, 2218-2229.	1.2	187
34	Towards better definition, quantification and treatment of fibrosis in heart failure. A scientific roadmap by the Committee of Translational Research of the Heart Failure Association (HFA) of the European Society of Cardiology. European Journal of Heart Failure, 2019, 21, 272-285.	2.9	182
35	Cyclic Strain Stress-induced Mitogen-activated Protein Kinase (MAPK) Phosphatase 1 Expression in Vascular Smooth Muscle Cells Is Regulated by Ras/Rac-MAPK Pathways. Journal of Biological Chemistry, 1999, 274, 25273-25280.	1.6	181
36	Heterogeneity in Neutrophil Microparticles Reveals Distinct Proteome and Functional Properties. Molecular and Cellular Proteomics, 2013, 12, 2205-2219.	2.5	178

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37	Short Communication: Asymmetric Dimethylarginine Impairs Angiogenic Progenitor Cell Function in Patients With Coronary Artery Disease Through a MicroRNA-21â€“Dependent Mechanism. Circulation Research, 2010, 107, 138-143.	2.0	177
38	Comparative Lipidomics Profiling of Human Atherosclerotic Plaques. Circulation: Cardiovascular Genetics, 2011, 4, 232-242.	5.1	177
39	Native T1 in Discrimination of Acute and Convalescent Stages in Patients With ClinicalÂDiagnosis of Myocarditis. JACC: Cardiovascular Imaging, 2015, 8, 37-46.	2.3	177
40	Oxidized Phospholipids Predict the Presence and Progression of Carotid and Femoral Atherosclerosis and Symptomatic Cardiovascular Disease. Journal of the American College of Cardiology, 2006, 47, 2219-2228.	1.2	174
41	Novel methodologies for biomarker discovery in atherosclerosis. European Heart Journal, 2015, 36, 2635-2642.	1.0	174
42	Cardiac myocyte miR-29 promotes pathological remodeling of the heart by activating Wnt signaling. Nature Communications, 2017, 8, 1614.	5.8	172
43	MicroRNA Biomarkers and Platelet Reactivity. Circulation Research, 2017, 120, 418-435.	2.0	171
44	Proteomic and Metabolomic Analyses of Atherosclerotic Vessels From Apolipoprotein E-Deficient Mice Reveal Alterations in Inflammation, Oxidative Stress, and Energy Metabolism. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 2135-2142.	1.1	170
45	Association of MicroRNAs and YRNAs With Platelet Function. Circulation Research, 2016, 118, 420-432.	2.0	167
46	Extracellular Matrix Secretion by Cardiac Fibroblasts. Circulation Research, 2013, 113, 1138-1147.	2.0	162
47	Cross-Reactive B-Cell Epitopes of Microbial and Human Heat Shock Protein 60/65 in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 1060-1065.	1.1	151
48	Very-Low-Density Lipoproteinâ€“Associated Apolipoproteins Predict Cardiovascular Events and Are Lowered by InhibitionÂofÂAPOC-III. Journal of the American College of Cardiology, 2017, 69, 789-800.	1.2	150
49	Higher spermidine intake is linked to lower mortality: a prospective population-based study. American Journal of Clinical Nutrition, 2018, 108, 371-380.	2.2	150
50	Pkm2 Regulates Cardiomyocyte Cell Cycle and Promotes Cardiac Regeneration. Circulation, 2020, 141, 1249-1265.	1.6	147
51	Mechanical Stressâ€induced DNA damage and racâ€p38MAPK Signal Pathways Mediate p53â€dependent Apoptosis in Vascular Smooth Muscle Cells. FASEB Journal, 2002, 16, 1423-1425.	0.2	144
52	Transformative Impact of Proteomics on Cardiovascular Health and Disease. Circulation, 2015, 132, 852-872.	1.6	140
53	Biomechanical stressâ€induced apoptosis in vein grafts involves p38 mitogenâ€activated protein kinases. FASEB Journal, 2000, 14, 261-270.	0.2	138
54	Both Donor and Recipient Origins of Smooth Muscle Cells in Vein Graft Atherosclerotic Lesions. Circulation Research, 2002, 91, e13-20.	2.0	138

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55	Systems biology in cardiovascular disease: a multiomics approach. Nature Reviews Cardiology, 2021, 18, 313-330.	6.1	134
56	Signature of circulating microRNAs in osteoarthritis. Annals of the Rheumatic Diseases, 2015, 74, e18-e18.	0.5	130
57	Longâ€term therapeutic silencing of miRâ€33 increases circulating triglyceride levels and hepatic lipid accumulation in mice. EMBO Molecular Medicine, 2014, 6, 1133-1141.	3.3	127
58	Proteomics, Metabolomics, and Immunomics on Microparticles Derived From Human Atherosclerotic Plaques. Circulation: Cardiovascular Genetics, 2009, 2, 379-388.	5.1	125
59	ADAMTS-7 Inhibits Re-endothelialization of Injured Arteries and Promotes Vascular Remodeling Through Cleavage of Thrombospondin-1. Circulation, 2015, 131, 1191-1201.	1.6	125
60	Terminal Differentiation, Advanced Organotypic Maturation, and Modeling of Hypertrophic Growth in Engineered Heart Tissue. Circulation Research, 2011, 109, 1105-1114.	2.0	124
61	Asymmetric Dimethylarginine and Cardiovascular Risk: Systematic Review and Metaâ€Analysis of 22 Prospective Studies. Journal of the American Heart Association, 2015, 4, e001833.	1.6	123
62	Preclinical development of a miR-132 inhibitor for heart failure treatment. Nature Communications, 2020, 11, 633.	5.8	123
63	Extracellular matrix proteomics identifies molecular signature of symptomatic carotid plaques. Journal of Clinical Investigation, 2017, 127, 1546-1560.	3.9	122
64	SARS-CoV-2 RNAemia and proteomic trajectories inform prognostication in COVID-19 patients admitted to intensive care. Nature Communications, 2021, 12, 3406.	5.8	122
65	Proteomics Identifies Thymidine Phosphorylase As a Key Regulator of the Angiogenic Potential of Colony-Forming Units and Endothelial Progenitor Cell Cultures. Circulation Research, 2009, 104, 32-40.	2.0	121
66	The innate immune system in chronic cardiomyopathy: a European Society of Cardiology (ESC) scientific statement from the Working Group on Myocardial Function of the ESC. European Journal of Heart Failure, 2018, 20, 445-459.	2.9	118
67	Analytical challenges and technical limitations in assessing circulating MiRNAs. Thrombosis and Haemostasis, 2012, 108, 592-598.	1.8	115
68	Human cardiac and bone marrow stromal cells exhibit distinctive properties related to their origin. Cardiovascular Research, 2011, 89, 650-660.	1.8	114
69	Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2017, 113, 725-736.	1.8	114
70	Mechanical Stretch-Induced Apoptosis in Smooth Muscle Cells Is Mediated by Î²1-Integrin Signaling Pathways. Hypertension, 2003, 41, 903-911.	1.3	113
71	Diabetes Mellitusâ€"Induced Microvascular Destabilization in the Myocardium. Journal of the American College of Cardiology, 2017, 69, 131-143.	1.2	113
72	Histone Deacetylase 7 Controls Endothelial Cell Growth Through Modulation of Î²-Catenin. Circulation Research, 2010, 106, 1202-1211.	2.0	110

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73	Liver microRNAs: potential mediators and biomarkers for metabolic and cardiovascular disease?. European Heart Journal, 2016, 37, 3260-3266.	1.0	108
74	Increased Risk of Atherosclerosis Is Confined to CagA-PositiveHelicobacter pyloriStrains. Stroke, 2003, 34, 610-615.	1.0	105
75	Gestational Diabetes Mellitus Impairs Nrf2-Mediated Adaptive Antioxidant Defenses and Redox Signaling in Fetal Endothelial Cells In Utero. Diabetes, 2013, 62, 4088-4097.	0.3	104
76	Premature senescence of endothelial cells upon chronic exposure to TNFÎ± can be prevented by N-acetyl cysteine and plumericin. Scientific Reports, 2017, 7, 39501.	1.6	104
77	Angiogenic microRNAs Linked to Incidence and Progression of Diabetic Retinopathy in Type 1 Diabetes. Diabetes, 2016, 65, 216-227.	0.3	103
78	Ischemic preconditioning exaggerates cardiac damage in PKC-Î´ null mice. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H946-H956.	1.5	100
79	Lipoprotein-associated phospholipase A2 activity, ferritin levels, metabolic syndrome, and 10-year cardiovascular and non-cardiovascular mortality: results from the Bruneck study. European Heart Journal, 2008, 30, 107-115.	1.0	99
80	Active and Passive Smoking, Chronic Infections, and the Risk of Carotid Atherosclerosis. Stroke, 2002, 33, 2170-2176.	1.0	97
81	Protein Kinase D Selectively Targets Cardiac Troponin I and Regulates Myofilament Ca 2+ Sensitivity in Ventricular Myocytes. Circulation Research, 2007, 100, 864-873.	2.0	97
82	Genetic Dissection of the Impact of miR-33a and miR-33b during the Progression of Atherosclerosis. Cell Reports, 2017, 21, 1317-1330.	2.9	96
83	Glycoproteomic Analysis of the Secretome of Human Endothelial Cells. Molecular and Cellular Proteomics, 2013, 12, 956-978.	2.5	94
84	Role of miR-195 in Aortic Aneurysmal Disease. Circulation Research, 2014, 115, 857-866.	2.0	93
85	MicroRNAs Within the Continuum of Postgenomics Biomarker Discovery. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 206-214.	1.1	92
86	Targeting myocardial remodelling to develop novel therapies for heart failure. European Journal of Heart Failure, 2014, 16, 494-508.	2.9	90
87	Comparative Analysis of Circulating Noncoding RNAs Versus Protein Biomarkers in the Detection of Myocardial Injury. Circulation Research, 2019, 125, 328-340.	2.0	86
88	Reduced Neointima Hyperplasia of Vein Bypass Grafts in Intercellular Adhesion Molecule-1â€“Deficient Mice. Circulation Research, 2000, 86, 434-440.	2.0	84
89	Loss of p53 Accelerates Neointimal Lesions of Vein Bypass Grafts in Mice. Circulation Research, 2002, 90, 197-204.	2.0	83
90	Association of Serum-Soluble Heat Shock Protein 60 With Carotid Atherosclerosis. Stroke, 2005, 36, 2571-2576.	1.0	83

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91	Novel Role of ADAMTS-5 Protein in Proteoglycan Turnover and Lipoprotein Retention in Atherosclerosis. Journal of Biological Chemistry, 2012, 287, 19341-19345.	1.6	82
92	Impact of intravenous heparin on quantification of circulating microRNAs in patients with coronary artery disease. Thrombosis and Haemostasis, 2013, 110, 609-615.	1.8	82
93	An integrative translational approach to study heart failure with preserved ejection fraction: a position paper from the Working Group on Myocardial Function of the European Society of Cardiology. European Journal of Heart Failure, 2018, 20, 216-227.	2.9	81
94	Enzymatic lipid oxidation by eosinophils propagates coagulation, hemostasis, and thrombotic disease. Journal of Experimental Medicine, 2017, 214, 2121-2138.	4.2	78
95	Sexual dimorphism in COVID-19: potential clinical and public health implications. Lancet Diabetes and Endocrinology,the, 2022, 10, 221-230.	5.5	78
96	Proteomics Analysis of the Cardiac Myofilament Subproteome Reveals Dynamic Alterations in Phosphatase Subunit Distribution. Molecular and Cellular Proteomics, 2010, 9, 497-509.	2.5	77
97	Extracellular Matrix Proteomics Reveals Interplay of Aggrecan and Aggrecanases in Vascular Remodeling of Stented Coronary Arteries. Circulation, 2018, 137, 166-183.	1.6	77
98	Proteomics-based Development of Biomarkers in Cardiovascular Disease. Molecular and Cellular Proteomics, 2006, 5, 1853-1864.	2.5	76
99	Proteomic and metabolomic analysis of cardioprotection: Interplay between protein kinase C epsilon and delta in regulating glucose metabolism of murine hearts. Journal of Molecular and Cellular Cardiology, 2009, 46, 268-277.	0.9	75
100	Native T1 and T2 mapping by CMR in lupus myocarditis: Disease recognition and response to treatment. International Journal of Cardiology, 2016, 222, 717-726.	0.8	75
101	In Aptamers They Trust. Circulation, 2018, 138, 2482-2485.	1.6	74
102	Vascular proteomics: Linking proteomic and metabolomic changes. Proteomics, 2004, 4, 3751-3761.	1.3	73
103	Smooth muscle cell apoptosis in arteriosclerosis. Experimental Gerontology, 2001, 36, 969-987.	1.2	72
104	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. Cardiovascular Research, 2021, 117, 43-59.	1.8	72
105	Loss of PKC-Î´ alters cardiac metabolism. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H937-H945.	1.5	71
106	Identification of Cardiac Myosin-binding Protein C as a Candidate Biomarker of Myocardial Infarction by Proteomics Analysis. Molecular and Cellular Proteomics, 2009, 8, 2687-2699.	2.5	71
107	Proteomics: from single molecules to biological pathways. Cardiovascular Research, 2013, 97, 612-622.	1.8	71
108	Proteomics and Metabolomics Combined in Cardiovascular Research. Trends in Cardiovascular Medicine, 2007, 17, 43-48.	2.3	70

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109	Lipidomics. Circulation: Cardiovascular Genetics, 2014, 7, 941-954.	5.1	70
110	Rapid Development of Vein Graft Atheroma in ApoE-Deficient Mice. American Journal of Pathology, 2000, 157, 659-669.	1.9	69
111	Oxidative stress in atherosclerosis: The role of microRNAs in arterial remodeling. Free Radical Biology and Medicine, 2013, 64, 69-77.	1.3	68
112	Role of ADAMTS-5 in Aortic Dilatation and Extracellular Matrix Remodeling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 1537-1548.	1.1	66
113	Oxidized Low-Density Lipoprotein Autoantibodies, Chronic Infections, and Carotid Atherosclerosis in a Population-Based Study. Journal of the American College of Cardiology, 2006, 47, 2436-2443.	1.2	64
114	Metabolic changes in hypertrophic cardiomyopathies: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. Cardiovascular Research, 2018, 114, 1273-1280.	1.8	64
115	Metabolomics. Circulation: Cardiovascular Genetics, 2008, 1, 58-65.	5.1	63
116	Asymmetric and symmetric dimethylarginines are of similar predictive value for cardiovascular risk in the general population. Atherosclerosis, 2009, 205, 261-265.	0.4	62
117	Chronic miRâ€29 antagonism promotes favorable plaque remodeling in atherosclerotic mice. EMBO Molecular Medicine, 2016, 8, 643-653.	3.3	61
118	Review focus on the role of microRNA in cardiovascular biology and disease. Cardiovascular Research, 2012, 93, 543-544.	1.8	60
119	Pathogenesis of Varicose Veins. Journal of Vascular and Interventional Radiology, 2012, 23, 33-39.	0.2	58
120	Extracellular matrix remodelling in response to venous hypertension: proteomics of human varicose veins. Cardiovascular Research, 2016, 110, 419-430.	1.8	56
121	Comparison of MOLLI, shMOLLLI, and SASHA in discrimination between health and disease and relationship with histologically derived collagen volume fraction. European Heart Journal Cardiovascular Imaging, 2018, 19, 768-776.	0.5	56
122	Proteomic and Metabolomic Analysis of Smooth Muscle Cells Derived From the Arterial Media and Adventitial Progenitors of Apolipoprotein Eâ€“Deficient Mice. Circulation Research, 2008, 102, 1046-1056.	2.0	55
123	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. Nature, 2020, 587, 460-465.	13.7	55
124	Calpain inhibition stabilizes the platelet proteome and reactivity in diabetes. Blood, 2012, 120, 415-423.	0.6	54
125	Comparative analysis of statistical methods used for detecting differential expression in label-free mass spectrometry proteomics. Journal of Proteomics, 2015, 129, 83-92.	1.2	54
126	Matrix Metalloproteinase-8 Promotes Vascular Smooth Muscle Cell Proliferation and Neointima Formation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 90-98.	1.1	53

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127	Association Between Vascular Cell Adhesion Molecule 1 and Atrial Fibrillation. JAMA Cardiology, 2017, 2, 516.	3.0	53
128	Macrophage-lysis mediated by autoantibodies to heat shock protein 65/60. Atherosclerosis, 1997, 128, 27-38.	0.4	52
129	Cardiac dysfunction in cancer patients: beyond direct cardiomyocyte damage of anticancer drugs: novel cardio-oncology insights from the joint 2019 meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. Cardiovascular Research, 2020, 116, 1820-1834.	1.8	51
130	Association of cardiometabolic microRNAs with COVID-19 severity and mortality. Cardiovascular Research, 2022, 118, 461-474.	1.8	51
131	Inhibition of Arteriosclerosis by T-Cell Depletion in Normocholesterolemic Rabbits Immunized With Heat Shock Protein 65. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 19, 1905-1911.	1.1	50
132	Redox Regulation of Soluble Epoxide Hydrolase by 15-Deoxy-Î”-Prostaglandin J ₂ Controls Coronary Hypoxic Vasodilation. Circulation Research, 2011, 108, 324-334.	2.0	50
133	â€œGoing Longâ€• Long Non-Coding RNAs as Biomarkers. Circulation Research, 2014, 115, 607-609.	2.0	50
134	Proteomic and Metabolomic Analysis of Vascular Smooth Muscle Cells. Circulation Research, 2004, 94, e87-96.	2.0	49
135	Functional Role of Matrix Metalloproteinase-8 in Stem/Progenitor Cell Migration and Their Recruitment Into Atherosclerotic Lesions. Circulation Research, 2013, 112, 35-47.	2.0	48
136	Proteomic Identification of Matrix Metalloproteinase Substrates in the Human Vasculature. Circulation: Cardiovascular Genetics, 2013, 6, 106-117.	5.1	47
137	Proteomic analysis of the secretome of human umbilical vein endothelial cells using a combination of freeâ€flow electrophoresis and nanoflow LCâ€MS/MS. Proteomics, 2009, 9, 4991-4996.	1.3	44
138	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies: from exosomes to microvesicles. Cardiovascular Research, 2023, 119, 45-63.	1.8	44
139	Glycoproteomics Reveals Decorin Peptides With Anti-Myostatin Activity in Human Atrial Fibrillation. Circulation, 2016, 134, 817-832.	1.6	43
140	Extracellular Matrix in Vascular Disease, Part 2/4. Journal of the American College of Cardiology, 2020, 75, 2189-2203.	1.2	43
141	Nox4 reprograms cardiac substrate metabolism via protein O-GlcNAcylation to enhance stress adaptation. JCI Insight, 2017, 2, .	2.3	42
142	Cytochrome P4502S1: a novel monocyte/macrophage fatty acid epoxygenase in human atherosclerotic plaques. Basic Research in Cardiology, 2013, 108, 319.	2.5	41
143	Loss of Biglycan Enhances Thrombin Generation in Apolipoprotein E -Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, e41-50.	1.1	41
144	From basic mechanisms to clinical applications in heart protection, new players in cardiovascular diseases and cardiac theranostics: meeting report from the third international symposium on â€œNew frontiers in cardiovascular researchâ€• Basic Research in Cardiology, 2016, 111, 69.	2.5	41

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145	Functional Genomics of Cardioprotection by Ischemic Conditioning and the Influence of Comorbid Conditions: Implications in Target Identification. Current Drug Targets, 2015, 16, 904-911.	1.0	41
146	XBP 1-Deficiency Abrogates Neointimal Lesion of Injured Vessels Via Cross Talk With the PDGF Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2134-2144.	1.1	40
147	Proteomic characterization of human early pro-angiogenic cells. Journal of Molecular and Cellular Cardiology, 2011, 50, 333-336.	0.9	39
148	MicroRNA Biomarkers for Coronary Artery Disease?. Current Atherosclerosis Reports, 2015, 17, 70.	2.0	39
149	Coupling Vascular and Myocardial Inflammatory Injury into a Common Phenotype of Cardiovascular Dysfunction: Systemic Inflammation and Aging â€“ A Mini-Review. Gerontology, 2011, 57, 295-303.	1.4	38
150	The -omics era: Proteomics and lipidomics in vascular research. Atherosclerosis, 2012, 221, 12-17.	0.4	37
151	Redox State of Pentraxin 3 as a Novel Biomarker for Resolution of Inflammation and Survival in Sepsis. Molecular and Cellular Proteomics, 2014, 13, 2545-2557.	2.5	37
152	Non-coding RNAs in vascular disease â€“ from basic science to clinical applications: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. Cardiovascular Research, 2018, 114, 1281-1286.	1.8	37
153	Proteomics of acute coronary syndromes. Current Atherosclerosis Reports, 2009, 11, 188-195.	2.0	36
154	Oxidant-induced Interprotein Disulfide Formation in Cardiac Protein DJ-1 Occurs via an Interaction with Peroxiredoxin 2. Journal of Biological Chemistry, 2016, 291, 10399-10410.	1.6	36
155	Downregulation of MicroRNA-126 Augments DNA Damage Response in Cigarette Smokers and Patients with Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 665-668.	2.5	36
156	Preoperative high-dose atorvastatin for prevention of atrial fibrillation after cardiac surgery: A randomized controlled trial. Journal of Thoracic and Cardiovascular Surgery, 2011, 141, 244-248.	0.4	35
157	Guidelines for the functional annotation of microRNAs using the Gene Ontology. Rna, 2016, 22, 667-676.	1.6	35
158	Glycoproteomic Analysis of the Aortic Extracellular Matrix in Marfan Patients. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1859-1873.	1.1	35
159	Comparative Proteomics Profiling Reveals Role of Smooth Muscle Progenitors in Extracellular Matrix Production. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1325-1332.	1.1	34
160	Proteomics and Metabolomics for Mechanistic Insights and Biomarker Discovery in Cardiovascular Disease. Revista Espanola De Cardiologia (English Ed), 2013, 66, 657-661.	0.4	34
161	microRNAs as Promising Biomarkers of Platelet Activity in Antiplatelet Therapy Monitoring. International Journal of Molecular Sciences, 2020, 21, 3477.	1.8	34
162	Fibroblast GATA-4 and GATA-6 promote myocardial adaptation to pressure overload by enhancing cardiac angiogenesis. Basic Research in Cardiology, 2021, 116, 26.	2.5	34

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163	Impairment of the ER/mitochondria compartment in human cardiomyocytes with PLN p.Arg14del mutation. EMBO Molecular Medicine, 2021, 13, e13074.	3.3	34
164	Proteomic dataset of mouse aortic smooth muscle cells. Proteomics, 2005, 5, 4546-4557.	1.3	33
165	Histone Deacetylase 3 Unconventional Splicing Mediates Endothelial-to-mesenchymal Transition through Transforming Growth Factor Î²2. Journal of Biological Chemistry, 2013, 288, 31853-31866.	1.6	33
166	Noncoding RNAs versus Protein Biomarkers in Cardiovascular Disease. Trends in Molecular Medicine, 2020, 26, 583-596.	3.5	33
167	Phosphoregulation of the Titin-cap Protein Telethonin in Cardiac Myocytes. Journal of Biological Chemistry, 2014, 289, 1282-1293.	1.6	32
168	CRISPR/Cas9 editing reveals novel mechanisms of clustered microRNA regulation and function. Scientific Reports, 2017, 7, 8585.	1.6	32
169	Aspirin, clopidogrel and prasugrel monotherapy in patients with type 2 diabetes mellitus: a double-blind randomised controlled trial of the effects on thrombotic markers and microRNA levels. Cardiovascular Diabetology, 2020, 19, 3.	2.7	31
170	Extracellular Matrix in Heart Failure: Role of ADAMTS5 in Proteoglycan Remodeling. Circulation, 2021, 144, 2021-2034.	1.6	31
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