

Elena Aikawa

List of Publications by Year in Descending Order

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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.

207
papers

22,790
citations

69
h-index

150
g-index

253
ext. papers

27,812
ext. citations

9.4
avg, IF

6.63
L-index

#	Paper	IF	Citations
207	Lipoprotein(a) Induces Vesicular Cardiovascular Calcification Revealed With Single-Extracellular Vesicle Analysis.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 778919	5.4	3
206	Role of Extracellular Vesicles in the Pathogenesis of Vascular Damage.. <i>Hypertension</i> , 2022 , HYPERTENSIONAHA1211795	5.4	1
205	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.. <i>Circulation</i> , 2022 , 145, 531-548	16.7	0
204	Shobha Ghosh (1958-2021).. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022 , 42, 239-240	9.4	0
203	Drug Screening Approach Using L1000-Based Connectivity Map and Its Application to COVID-19.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 842641	5.4	0
202	Progression of Mitral Regurgitation in Rheumatic Valve Disease: Role of Left Atrial Remodeling.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 862382	5.4	0
201	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. <i>Cardiovascular Research</i> , 2022 ,	9.9	4
200	Wnt Site Signaling Inhibitor Secreted Frizzled-Related Protein 3 Protects Mitral Valve Endothelium From Myocardial Infarction-Induced Endothelial-to-Mesenchymal Transition.. <i>Journal of the American Heart Association</i> , 2022 , e023695	6	0
199	The Developmental Origin of Calcific Aortic Stenosis.. <i>New England Journal of Medicine</i> , 2022 , 386, 1372-1374	39.4	2
198	Mechanisms of calcification in the aortic wall and aortic valve 2022 , 327-340		
197	Embracing Diversity, Equity, and Inclusion in the Scientific Community-Viewpoints of the Diversity, Equity, and Inclusion Committee of the North American Vascular Biology Organization.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 863256	5.4	0
196	A disease-driver population within interstitial cells of human calcific aortic valves identified via single-cell and proteomic profiling.. <i>Cell Reports</i> , 2022 , 39, 110685	10.6	2
195	Computational Screening Strategy for Drug Repurposing Identified Niclosamide as Inhibitor of Vascular Calcification.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 826529	5.4	1
194	Proinflammatory Matrix Metalloproteinase-1 Associates With Mitral Valve Leaflet Disruption Following Percutaneous Mitral Valvuloplasty.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 804111	5.4	0
193	Integration of Functional Imaging, Cytometry, and Unbiased Proteomics Reveals New Features of Endothelial-to-Mesenchymal Transition in Ischemic Mitral Valve Regurgitation in Human Patients. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 688396	5.4	0
192	Residual Bioprosthetic Valve Immunogenicity: Forgotten, Not Lost.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 760635	5.4	0
191	Calcific aortic valve disease: from molecular and cellular mechanisms to medical therapy. <i>European Heart Journal</i> , 2021 ,	9.5	7

190	Highly Selective PPAR[α]Agonist Pemafibrate Inhibits Stent Inflammation and Restenosis Assessed by Multimodality Molecular-Microstructural Imaging. <i>Journal of the American Heart Association</i> , 2021 , 10, e020834	6	1
189	2020 Jeffrey M. Hoeg Award Lecture: Calcifying Extracellular Vesicles as Building Blocks of Microcalcifications in Cardiovascular Disorders. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 117-127	9.4	6
188	Circulating Extracellular Vesicles As Biomarkers and Drug Delivery Vehicles in Cardiovascular Diseases. <i>Biomolecules</i> , 2021 , 11,	5.9	8
187	Multi-Omics Approaches to Define Calcific Aortic Valve Disease Pathogenesis. <i>Circulation Research</i> , 2021 , 128, 1371-1397	15.7	10
186	Nanoanalytical analysis of bisphosphonate-driven alterations of microcalcifications using a 3D hydrogel system and in vivo mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
185	Systems Approach to Discovery of Therapeutic Targets for Vein Graft Disease: PPAR[α]Pivotaly Regulates Metabolism, Activation, and Heterogeneity of Macrophages and Lesion Development. <i>Circulation</i> , 2021 , 143, 2454-2470	16.7	5
184	Elastogenesis Correlates With Pigment Production in Murine Aortic Valve Leaflets. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 678401	5.4	1
183	Harnessing Single-Cell RNA Sequencing to Better Understand How Diseased Cells Behave the Way They Do in Cardiovascular Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 585-600	9.4	10
182	ApoC-III is a novel inducer of calcification in human aortic valves. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100193	5.4	11
181	CROT (Carnitine O-Octanoyltransferase) Is a Novel Contributing Factor in Vascular Calcification via Promoting Fatty Acid Metabolism and Mitochondrial Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 755-768	9.4	9
180	Nitric oxide prevents aortic valve calcification by S-nitrosylation of USP9X to activate NOTCH signaling. <i>Science Advances</i> , 2021 , 7,	14.3	12
179	Dynamin-related protein 1 inhibition reduces hepatic PCSK9 secretion. <i>Cardiovascular Research</i> , 2021 , 117, 2340-2353	9.9	6
178	Radiation Induces Valvular Interstitial Cell Calcific Response in an Model of Calcific Aortic Valve Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 687885	5.4	1
177	Innate and adaptive immunity: the understudied driving force of heart valve disease. <i>Cardiovascular Research</i> , 2021 , 117, 2506-2524	9.9	7
176	What Makes a Great Mentor: Interviews With Recipients of the ATVB Mentor of Women Award. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 2641-2647	9.4	0
175	InSitu Remodeling Overrules Bioinspired Scaffold Architecture of Supramolecular Elastomeric Tissue-Engineered Heart Valves. <i>JACC Basic To Translational Science</i> , 2020 , 5, 1187-1206	8.7	14
174	S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 1838-1853	9.4	21
173	Innate and adaptive immunity in cardiovascular calcification. <i>Atherosclerosis</i> , 2020 , 306, 59-67	3.1	22

172	Aortic valve calcification predicts all-cause mortality independent of coronary calcification and severe stenosis. <i>Atherosclerosis</i> , 2020 , 307, 16-20	3.1	4
171	Attenuated Mitral Leaflet Enlargement Contributes to Functional Mitral Regurgitation After Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 395-405	15.1	16
170	Osteoclasts in Cardiovascular Calcification. <i>Contemporary Cardiology</i> , 2020 , 391-419	0.1	
169	Tissue Engineering to Study and Treat Cardiovascular Calcification 2020 , 429-468		
168	The History of Cardiovascular Calcification. <i>Contemporary Cardiology</i> , 2020 , 3-11	0.1	0
167	Tissue Engineering to Study and Treat Cardiovascular Calcification 2020 , 1-41		
166	Raising awareness for rheumatic mitral valve disease. <i>Global Cardiology Science & Practice</i> , 2020 , 2020, e202026	0.7	1
165	Differential Mechanisms of Arterial and Valvular Calcification. <i>Contemporary Cardiology</i> , 2020 , 73-95	0.1	
164	Target Discovery in Calcification Through Omics and Systems Approaches. <i>Contemporary Cardiology</i> , 2020 , 525-551	0.1	1
163	Retinoids Repress Human Cardiovascular Cell Calcification With Evidence for Distinct Selective Retinoid Modulator Effects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 656-669	9.4	8
162	Mitral Regurgitation After Percutaneous Mitral Valvuloplasty: Insights Into Mechanisms and Impact on Clinical Outcomes. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 2513-2526	8.4	3
161	Annexin A1-dependent tethering promotes extracellular vesicle aggregation revealed with single-extracellular vesicle analysis. <i>Science Advances</i> , 2020 , 6,	14.3	27
160	Rheumatic Heart Valve Disease Pathophysiology and Underlying Mechanisms. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 612716	5.4	9
159	Decreased Cytokine Plasma Levels and Changes in T-Cell Activation Are Associated With Hemodynamic Improvement and Clinical Outcomes After Percutaneous Mitral Commissurotomy in Patients With Rheumatic Mitral Stenosis. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 604826	5.4	
158	Standardization of Human Calcific Aortic Valve Disease Modeling Reveals Passage-Dependent Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 49	5.4	26
157	Lipoprotein(a) and Oxidized Phospholipids Promote Valve Calcification in Patients With Aortic Stenosis. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2150-2162	15.1	97
156	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. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 8	5.4	0
155	Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and Dll4-Notch Signaling. <i>Circulation</i> , 2019 , 139, 78-96	16.7	65

154	Endothelial to Mesenchymal Transition in Cardiovascular Disease: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 190-209	15.1	189
153	F-Fluoride Signal Amplification Identifies Microcalcifications Associated With Atherosclerotic Plaque Instability in Positron Emission Tomography/Computed Tomography Images. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e007835	3.9	56
152	Cardiovascular calcification: artificial intelligence and big data accelerate mechanistic discovery. <i>Nature Reviews Cardiology</i> , 2019 , 16, 261-274	14.8	74
151	Mitral Valve Adaptation to Isolated Annular Dilation: Insights Into the Mechanism of Atrial Functional Mitral Regurgitation. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 665-677	8.4	52
150	Extracellular vesicles in cardiovascular homeostasis and disease. <i>Current Opinion in Cardiology</i> , 2018 , 33, 290-297	2.1	25
149	Dimerization of sortilin regulates its trafficking to extracellular vesicles. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4532-4544	5.4	25
148	Calcific aortic valve stenosis: hard disease in the heart: A biomolecular approach towards diagnosis and treatment. <i>European Heart Journal</i> , 2018 , 39, 2618-2624	9.5	69
147	Flow Preservation of Umbilical Vein for Autologous Shunt and Cardiovascular Reconstruction. <i>Annals of Thoracic Surgery</i> , 2018 , 105, 1809-1818	2.7	0
146	Spatiotemporal Multi-Omics Mapping Generates a Molecular Atlas of the Aortic Valve and Reveals Networks Driving Disease. <i>Circulation</i> , 2018 , 138, 377-393	16.7	102
145	New insights into mitral valve dystrophy: a Filamin-A genotype-phenotype and outcome study. <i>European Heart Journal</i> , 2018 , 39, 1269-1277	9.5	26
144	Engineering a 3D-Bioprinted Model of Human Heart Valve Disease Using Nanoindentation-Based Biomechanics. <i>Nanomaterials</i> , 2018 , 8,	5.4	59
143	Detection of Aggregation-Competent Tau in Neuron-Derived Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	86
142	Transcriptional control of intestinal cholesterol absorption, adipose energy expenditure and lipid handling by Sortilin. <i>Scientific Reports</i> , 2018 , 8, 9006	4.9	9
141	Sortilin and Its Multiple Roles in Cardiovascular and Metabolic Diseases. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 19-25	9.4	47
140	Calcific Aortic Valve Disease: Pathobiology, Basic Mechanisms, and Clinical Strategies 2018 , 153-179		
139	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018 , 7, 1535750	16.4	3642
138	Roles and Regulation of Extracellular Vesicles in Cardiovascular Mineral Metabolism. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 187	5.4	51
137	The Transcriptional Signature of Growth in Human Fetal Aortic Valve Development. <i>Annals of Thoracic Surgery</i> , 2018 , 106, 1834-1840	2.7	5

136	Sheep-Specific Immunohistochemical Panel for the Evaluation of Regenerative and Inflammatory Processes in Tissue-Engineered Heart Valves. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 105	5.4	11
135	In vitro 3D model and miRNA drug delivery to target calcific aortic valve disease. <i>Clinical Science</i> , 2017 , 131, 181-195	6.5	21
134	Serum Sortilin Associates With Aortic Calcification and Cardiovascular Risk in Men. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017 , 37, 1005-1011	9.4	33
133	Interferon- γ Released by Activated CD8 T Lymphocytes Impairs the Calcium Resorption Potential of Osteoclasts in Calcified Human Aortic Valves. <i>American Journal of Pathology</i> , 2017 , 187, 1413-1425	5.8	34
132	Flow Perturbation Mediates Neutrophil Recruitment and Potentiates Endothelial Injury via TLR2 in Mice: Implications for Superficial Erosion. <i>Circulation Research</i> , 2017 , 121, 31-42	15.7	94
131	Dynamin-Related Protein 1 Inhibition Attenuates Cardiovascular Calcification in the Presence of Oxidative Stress. <i>Circulation Research</i> , 2017 , 121, 220-233	15.7	57
130	Mitral Leaflet Changes Following Myocardial Infarction: Clinical Evidence for Maladaptive Valvular Remodeling. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	24
129	Cathepsin S As an Inhibitor of Cardiovascular Inflammation and Calcification in Chronic Kidney Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2017 , 4, 88	5.4	15
128	Effect of Losartan on Mitral Valve Changes After Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 1232-1244	15.1	55
127	Extracellular Vesicles As Mediators of Cardiovascular Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2017 , 4, 78	5.4	62
126	3.18 Immunohistochemistry ? 2017 , 387-405		0
125	Giving Calcification Its Due: Recognition of a Diverse Disease: A First Attempt to Standardize the Field. <i>Circulation Research</i> , 2017 , 120, 270-273	15.7	33
124	Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. <i>Histology and Histopathology</i> , 2017 , 32, 293-306	1.4	18
123	Elastomeric Fibrous Hybrid Scaffold Supports In Vitro and In Vivo Tissue Formation. <i>Advanced Functional Materials</i> , 2017 , 27, 1606614	15.6	19
122	Current Trends and Future Perspectives of State-of-the-Art Proteomics Technologies Applied to Cardiovascular Disease Research. <i>Circulation Journal</i> , 2016 , 80, 1674-83	2.9	7
121	PARP9 and PARP14 cross-regulate macrophage activation via STAT1 ADP-ribosylation. <i>Nature Communications</i> , 2016 , 7, 12849	17.4	120
120	Comparative Histopathological Analysis of Mitral Valves in Barlow Disease and Fibroelastic Deficiency. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2016 , 28, 757-767	1.7	14
119	Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	11

118	Extracellular vesicles in cardiovascular calcification: expanding current paradigms. <i>Journal of Physiology</i> , 2016 , 594, 2895-903	3.9	63
117	Genesis and growth of extracellular-vesicle-derived microcalcification in atherosclerotic plaques. <i>Nature Materials</i> , 2016 , 15, 335-43	27	198
116	Myocardial Infarction Alters Adaptation of the Tethered Mitral Valve. <i>Journal of the American College of Cardiology</i> , 2016 , 67, 275-87	15.1	55
115	Simulation of early calcific aortic valve disease in a 3D platform: A role for myofibroblast differentiation. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 94, 13-20	5.8	51
114	Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor- β Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 525-33	9.4	44
113	Mouse Models of Atherosclerosis 2016 , 159-193		
112	Sortilin mediates vascular calcification via its recruitment into extracellular vesicles. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1323-36	15.9	141
111	Quantification of Calcified Particles in Human Valve Tissue Reveals Asymmetry of Calcific Aortic Valve Disease Development. <i>Frontiers in Cardiovascular Medicine</i> , 2016 , 3, 44	5.4	7
110	Noninvasive Molecular Imaging of Disease Activity in Atherosclerosis. <i>Circulation Research</i> , 2016 , 119, 330-40	15.7	89
109	Zooming in on the genesis of atherosclerotic plaque microcalcifications. <i>Journal of Physiology</i> , 2016 , 594, 2915-27	3.9	22
108	Adventitial MSC-like Cells Are Progenitors of Vascular Smooth Muscle Cells and Drive Vascular Calcification in Chronic Kidney Disease. <i>Cell Stem Cell</i> , 2016 , 19, 628-642	18	189
107	A single injection of gain-of-function mutant PCSK9 adeno-associated virus vector induces cardiovascular calcification in mice with no genetic modification. <i>Atherosclerosis</i> , 2016 , 251, 109-118	3.1	58
106	CD45 Expression in Mitral Valve Endothelial Cells After Myocardial Infarction. <i>Circulation Research</i> , 2016 , 119, 1215-1225	15.7	43
105	Valvular interstitial cells suppress calcification of valvular endothelial cells. <i>Atherosclerosis</i> , 2015 , 242, 251-260	3.1	97
104	Cardiovascular calcification: current controversies and novel concepts. <i>Cardiovascular Pathology</i> , 2015 , 24, 207-12	3.8	48
103	Mitral valve disease--morphology and mechanisms. <i>Nature Reviews Cardiology</i> , 2015 , 12, 689-710	14.8	172
102	Revisiting cardiovascular calcification: A multifaceted disease requiring a multidisciplinary approach. <i>Seminars in Cell and Developmental Biology</i> , 2015 , 46, 68-77	7.5	25
101	Directing valvular interstitial cell myofibroblast-like differentiation in a hybrid hydrogel platform. <i>Advanced Healthcare Materials</i> , 2015 , 4, 121-30	10.1	52

100	-acetylglucosamine-1-Phosphate Transferase Suppresses Lysosomal Hydrolases in Dysfunctional Osteoclasts: A Potential Mechanism for Vascular Calcification. <i>Journal of Cardiovascular Development and Disease</i> , 2015 , 2, 31-47	4.2	3
99	Pitavastatin Reduces Inflammation in Atherosclerotic Plaques in Apolipoprotein E-Deficient Mice with Late Stage Renal Disease. <i>PLoS ONE</i> , 2015 , 10, e0138047	3.7	10
98	Pathobiology and Optical Molecular Imaging of Calcific Aortic Valve Disease 2015 , 187-199		
97	Selective cathepsin S inhibition attenuates atherosclerosis in apolipoprotein E-deficient mice with chronic renal disease. <i>American Journal of Pathology</i> , 2015 , 185, 1156-66	5.8	47
96	EVpedia: a community web portal for extracellular vesicles research. <i>Bioinformatics</i> , 2015 , 31, 933-9	7.2	256
95	Innovations in Microscopic Imaging of Atherosclerosis and Valvular Disease 2015 , 251-265		1
94	Optical Molecular Imaging of Inflammation and Calcification in Atherosclerosis 2015 , 107-120		
93	Calcific aortic valve disease: a consensus summary from the Alliance of Investigators on Calcific Aortic Valve Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2387-93	9.4	185
92	Potential drug targets for calcific aortic valve disease. <i>Nature Reviews Cardiology</i> , 2014 , 11, 218-31	14.8	89
91	Enrichment of calcifying extracellular vesicles using density-based ultracentrifugation protocol. <i>Journal of Extracellular Vesicles</i> , 2014 , 3, 25129	16.4	35
90	Heart Valve Disease 2014 , 1014-1032		
89	Small entities with large impact: microcalcifications and atherosclerotic plaque vulnerability. <i>Current Opinion in Lipidology</i> , 2014 , 25, 327-32	4.4	90
88	Calcific and Degenerative Heart Valve Disease 2014 , 161-180		6
87	Cystathionine β -lyase accelerates osteoclast differentiation: identification of a novel regulator of osteoclastogenesis by proteomic analysis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 626-34	9.4	31
86	A novel quantitative approach for eliminating sample-to-sample variation using a hue saturation value analysis program. <i>PLoS ONE</i> , 2014 , 9, e89627	3.7	10
85	Identification of Early Pathological Events in Calcific Aortic Valve Disease by Molecular Imaging 2014 , 107-116		
84	MicroRNA in cardiovascular calcification: focus on targets and extracellular vesicle delivery mechanisms. <i>Circulation Research</i> , 2013 , 112, 1073-84	15.7	65
83	Role of extracellular vesicles in de novo mineralization: an additional novel mechanism of cardiovascular calcification. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1753-8	9.4	100

82	Visualizing novel concepts of cardiovascular calcification. <i>Trends in Cardiovascular Medicine</i> , 2013 , 23, 71-9	6.9	30
81	Elastogenesis at the onset of human cardiac valve development. <i>Development (Cambridge)</i> , 2013 , 140, 2345-53	6.6	45
80	Statins suppress apolipoprotein CIII-induced vascular endothelial cell activation and monocyte adhesion. <i>European Heart Journal</i> , 2013 , 34, 615-24	9.5	60
79	Cardiovascular Inflammation 2012: Reactive Oxygen Species, SUMOylation, and Biomarkers in Cardiovascular Inflammation. <i>International Journal of Inflammation</i> , 2013 , 2013, 953463	6.4	6
78	Macrophage-derived matrix vesicles: an alternative novel mechanism for microcalcification in atherosclerotic plaques. <i>Circulation Research</i> , 2013 , 113, 72-7	15.7	380
77	Revised microcalcification hypothesis for fibrous cap rupture in human coronary arteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10741-6	11.5	221
76	Simulating early calcific aortic valve disease within novel in vitro 3D tissue platform. <i>European Heart Journal</i> , 2013 , 34, P3908-P3908	9.5	1
75	International Society for Extracellular Vesicles: Second Annual Meeting, 17-20 April 2013, Boston, MA (ISEV 2013). <i>Journal of Extracellular Vesicles</i> , 2013 , 2, 23070	16.4	2
74	Biology of Mitral Valve Disease 2013 , 173-185		1
73	Molecular Imaging of Macrophages in Atherosclerosis. <i>Current Cardiovascular Imaging Reports</i> , 2012 , 5, 45-52	0.7	1
72	Vesiclepedia: a compendium for extracellular vesicles with continuous community annotation. <i>PLoS Biology</i> , 2012 , 10, e1001450	9.7	800
71	Cardiovascular inflammation. <i>International Journal of Inflammation</i> , 2012 , 2012, 904608	6.4	7
70	Inhibition of bone morphogenetic protein signaling reduces vascular calcification and atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 613-22	9.4	169
69	Notch ligand delta-like 4 blockade attenuates atherosclerosis and metabolic disorders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1868-77	11.5	121
68	Vasculitis: molecular imaging by targeting the inflammatory enzyme myeloperoxidase. <i>Radiology</i> , 2012 , 262, 181-90	20.5	22
67	In vivo detection of Staphylococcus aureus endocarditis by targeting pathogen-specific prothrombin activation. <i>Nature Medicine</i> , 2011 , 17, 1142-6	50.5	125
66	Cyclic strain induces dual-mode endothelial-mesenchymal transformation of the cardiac valve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19943-8	11.5	120
65	Immunohistochemistry 2011 , 277-290		3

64	Mitral valve endothelial cells with osteogenic differentiation potential. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 598-607	9.4	102
63	Calcific aortic valve disease: not simply a degenerative process: A review and agenda for research from the National Heart and Lung and Blood Institute Aortic Stenosis Working Group. Executive summary: Calcific aortic valve disease-2011 update. <i>Circulation</i> , 2011 , 124, 1783-91	16.7	554
62	Cardiovascular calcification: an inflammatory disease. <i>Circulation Journal</i> , 2011 , 75, 1305-13	2.9	99
61	The osteoclast-associated receptor (OSCAR) is a novel receptor regulated by oxidized low-density lipoprotein in human endothelial cells. <i>Endocrinology</i> , 2011 , 152, 4915-26	4.8	31
60	Progenitor cells confer plasticity to cardiac valve endothelium. <i>Journal of Cardiovascular Translational Research</i> , 2011 , 4, 710-9	3.3	56
59	Fibroblast activation protein is induced by inflammation and degrades type I collagen in thin-cap fibroatheromata. <i>European Heart Journal</i> , 2011 , 32, 2713-22	9.5	80
58	Indocyanine green enables near-infrared fluorescence imaging of lipid-rich, inflamed atherosclerotic plaques. <i>Science Translational Medicine</i> , 2011 , 3, 84ra45	17.5	143
57	Molecular imaging insights into early inflammatory stages of arterial and aortic valve calcification. <i>Circulation Research</i> , 2011 , 108, 1381-91	15.7	213
56	Selective inhibition of matrix metalloproteinase-13 increases collagen content of established mouse atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 2464-72	9.4	89
55	Pioglitazone suppresses inflammation in vivo in murine carotid atherosclerosis: novel detection by dual-target fluorescence molecular imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 1933-9	9.4	45
54	Intravital molecular imaging of small-diameter tissue-engineered vascular grafts in mice: a feasibility study. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 597-607	2.9	34
53	Endothelial progenitor cells as a sole source for ex vivo seeding of tissue-engineered heart valves. <i>Tissue Engineering - Part A</i> , 2010 , 16, 257-67	3.9	61
52	Arterial and aortic valve calcification inversely correlates with osteoporotic bone remodelling: a role for inflammation. <i>European Heart Journal</i> , 2010 , 31, 1975-84	9.5	152
51	Impaired infarct healing in atherosclerotic mice with Ly-6C(hi) monocytosis. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 1629-38	15.1	238
50	Optical Molecular Imaging of Inflammation and Calcification in Atherosclerosis. <i>Current Cardiovascular Imaging Reports</i> , 2010 , 3, 12-17	0.7	2
49	In vivo monitoring of function of autologous engineered pulmonary valve. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010 , 139, 723-31	1.5	110
48	Expression of the familial cardiac valvular dystrophy gene, filamin-A, during heart morphogenesis. <i>Developmental Dynamics</i> , 2010 , 239, 2118-27	2.9	42
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