

Elena Aikawa

List of Publications by Year in descending order

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Version: 2024-02-01

246
papers

31,736
citations

6592

79
h-index

4535

171
g-index

253
all docs

253
docs citations

253
times ranked

36922
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies: from exosomes to microvesicles. <i>Cardiovascular Research</i> , 2023, 119, 45-63.	1.8	44
2	Calcific aortic valve disease: from molecular and cellular mechanisms to medical therapy. <i>European Heart Journal</i> , 2022, 43, 683-697.	1.0	76
3	Lipoprotein(a) Induces Vesicular Cardiovascular Calcification Revealed With Single-Extracellular Vesicle Analysis. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 778919.	1.1	12
4	Role of Extracellular Vesicles in the Pathogenesis of Vascular Damage. <i>Hypertension</i> , 2022, 79, 863-873.	1.3	27
5	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.	1.6	12
6	Shobha Ghosh (1958–2021). <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, 239-240.	1.1	0
7	In silico Drug Screening Approach Using L1000-Based Connectivity Map and Its Application to COVID-19. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 842641.	1.1	5
8	Progression of Mitral Regurgitation in Rheumatic Valve Disease: Role of Left Atrial Remodeling. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 862382.	1.1	3
9	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, 11, e023695.	1.6	6
10	The Developmental Origin of Calcific Aortic Stenosis. <i>New England Journal of Medicine</i> , 2022, 386, 1372-1374.	13.9	7
11	Mechanisms of calcification in the aortic wall and aortic valve. , 2022, , 327-340.		0
12	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.	1.1	1
13	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.	2.9	16
14	Connections for Matters of the Heart: Network Medicine in Cardiovascular Diseases. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	6
15	Progression of aortic stenosis after an acute myocardial infarction. <i>Open Heart</i> , 2022, 9, e002046.	0.9	2
16	Elevated lipoprotein(a) as a predictor for coronary events in older men. <i>Journal of Lipid Research</i> , 2022, 63, 100242.	2.0	4
17	Inhibition of novel lipoprotein(a) receptor major facilitator superfamily domain containing 5 (MFSD5) reduces development of aortic valve calcification. <i>Cardiovascular Research</i> , 2022, 118, .	1.8	0
18	2020 Jeffrey M. Hoeg Award Lecture. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 117-127.	1.1	9

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19	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.	1.1	26
20	ApoC-III is a novel inducer of calcification in human aortic valves. <i>Journal of Biological Chemistry</i> , 2021, 296, 100193.	1.6	28
21	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.	1.1	17
22	Nitric oxide prevents aortic valve calcification by S-nitrosylation of USP9X to activate NOTCH signaling. <i>Science Advances</i> , 2021, 7, .	4.7	43
23	Dynamin-related protein 1 inhibition reduces hepatic PCSK9 secretion. <i>Cardiovascular Research</i> , 2021, 117, 2340-2353.	1.8	16
24	Circulating Extracellular Vesicles As Biomarkers and Drug Delivery Vehicles in Cardiovascular Diseases. <i>Biomolecules</i> , 2021, 11, 388.	1.8	30
25	Multi-Omics Approaches to Define Calcific Aortic Valve Disease Pathogenesis. <i>Circulation Research</i> , 2021, 128, 1371-1397.	2.0	39
26	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, .	3.3	9
27	Old Drugs for an Old Pathology? Drug Repurposing for Calcific Aortic Valve Disease. <i>Circulation Research</i> , 2021, 128, 1317-1319.	2.0	2
28	ApoA-I mimetics improve aortic stenosis-associated left-ventricular diastolic dysfunction but fail to benefit rabbit models with normal aortic valves. <i>International Journal of Cardiology</i> , 2021, 332, 159-161.	0.8	1
29	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.	1.6	21
30	Unbiased omics identifies mechanistic regulators of calcific aortic valve disease. <i>European Heart Journal</i> , 2021, 42, 2948-2950.	1.0	2
31	Elastogenesis Correlates With Pigment Production in Murine Aortic Valve Leaflets. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 678401.	1.1	4
32	Radiation Induces Valvular Interstitial Cell Calcific Response in an in vitro Model of Calcific Aortic Valve Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 687885.	1.1	6
33	Innate and adaptive immunity: the understudied driving force of heart valve disease. <i>Cardiovascular Research</i> , 2021, 117, 2506-2524.	1.8	30
34	Recapitulating the Complex Pathology of Atherosclerosis: Which Model to Use?. <i>Circulation Research</i> , 2021, 129, 491-493.	2.0	5
35	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.	1.1	3
36	Highly Selective PPAR α (Peroxisome Proliferator-Activated Receptor 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.	1.6	7

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37	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.	1.1	0
38	Abstract MP235: PROX1 Contributes To Cardiac Valve Disease. <i>Circulation Research</i> , 2021, 129, .	2.0	0
39	Controlled delivery of gold nanoparticle-coupled miRNA therapeutics via an injectable self-healing hydrogel. <i>Nanoscale</i> , 2021, 13, 20451-20461.	2.8	15
40	Residual Bioprosthetic Valve Immunogenicity: Forgotten, Not Lost. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 760635.	1.1	10
41	Computational Screening Strategy for Drug Repurposing Identified Niclosamide as Inhibitor of Vascular Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 826529.	1.1	5
42	Proinflammatory Matrix Metalloproteinase-1 Associates With Mitral Valve Leaflet Disruption Following Percutaneous Mitral Valvuloplasty. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 804111.	1.1	3
43	Abstract 11373: Computational Approach in Target Discovery and Its Validation: In Search for Inhibitors of Vascular Calcification. <i>Circulation</i> , 2021, 144, .	1.6	0
44	Abstract 10612: Immune Cells in Calcific Aortic Valve Disease. <i>Circulation</i> , 2021, 144, .	1.6	0
45	Abstract 11752: Pitavastatin Treatment Ameliorates HIV-Nef Containing Extracellular Vesicle-Mediated Cardiomyocyte Dysfunction. <i>Circulation</i> , 2021, 144, .	1.6	0
46	Abstract 10223: Tissue-Entrapped Extracellular Vesicles Modulate Divergent Mechanisms of Cardiovascular Calcification. <i>Circulation</i> , 2021, 144, .	1.6	0
47	Abstract 112: Examining The Heterogeneity Of Primary Human Macrophages And Pharmacogenomic Networks To Identify Novel Targets For Precision Medicine For Vascular Inflammation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, .	1.1	0
48	Abstract 12316: Carnitine O-octanoyltransferase Inhibition Attenuates Human Aortic Valve Interstitial Cell Calcification by Correcting Energetic Mitochondrial State. <i>Circulation</i> , 2021, 144, .	1.6	0
49	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.	1.1	17
50	Mitral Regurgitation After Percutaneous Mitral Valvuloplasty. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2513-2526.	2.3	9
51	Heart Valve Disease: Challenges and New Opportunities. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 602271.	1.1	8
52	An (Auto)Taxing Effort to Mechanistically Link Obesity and Calcific Aortic Valve Disease. <i>JACC Basic To Translational Science</i> , 2020, 5, 898-900.	1.9	1
53	Annexin A1-dependent tethering promotes extracellular vesicle aggregation revealed with single-extracellular vesicle analysis. <i>Science Advances</i> , 2020, 6, .	4.7	65
54	In Situ Remodeling Overrides Bioinspired Scaffold Architecture of Supramolecular Elastomeric Tissue-Engineered Heart Valves. <i>JACC Basic To Translational Science</i> , 2020, 5, 1187-1206.	1.9	38

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55	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.	1.1	52
56	Innate and adaptive immunity in cardiovascular calcification. <i>Atherosclerosis</i> , 2020, 306, 59-67.	0.4	41
57	Aortic valve calcification predicts all-cause mortality independent of coronary calcification and severe stenosis. <i>Atherosclerosis</i> , 2020, 307, 16-20.	0.4	18
58	Double-edged sword of ALDH2 mutations: one polymorphism can both benefit and harm the cardiovascular system. <i>European Heart Journal</i> , 2020, 41, 2453-2455.	1.0	6
59	Complex association of lipoprotein(a) with aortic stenosis. <i>Heart</i> , 2020, 106, 711-712.	1.2	3
60	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.	1.2	33
61	Rheumatic Heart Valve Disease Pathophysiology and Underlying Mechanisms. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 612716.	1.1	30
62	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.	1.1	1
63	Target Discovery in Calcification Through Omics and Systems Approaches. <i>Contemporary Cardiology</i> , 2020, , 525-551.	0.0	1
64	Calcific Aortic Valve Disease – Omics Is Timely, But Are We Looking Too Late?. <i>JACC Basic To Translational Science</i> , 2020, 5, 1178-1180.	1.9	5
65	The History of Cardiovascular Calcification. <i>Contemporary Cardiology</i> , 2020, , 3-11.	0.0	1
66	Tissue Engineering to Study and Treat Cardiovascular Calcification. , 2020, , 1-41.		0
67	Raising awareness for rheumatic mitral valve disease. <i>Global Cardiology Science & Practice</i> , 2020, 2020, e202026.	0.3	4
68	Differential Mechanisms of Arterial and Valvular Calcification. <i>Contemporary Cardiology</i> , 2020, , 73-95.	0.0	0
69	Osteoclasts in Cardiovascular Calcification. <i>Contemporary Cardiology</i> , 2020, , 391-419.	0.0	0
70	Tissue Engineering to Study and Treat Cardiovascular Calcification. , 2020, , 429-468.		0
71	Abstract 13401: Prothymosin Alpha (ProT±) Associates With Pathogenesis and Sex Predisposition in Rheumatic Heart Valve Disease. <i>Circulation</i> , 2020, 142, .	1.6	0
72	Editorial: Exploring the Frontiers of Regenerative Cardiovascular Medicine. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 13.	1.1	0

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73	Standardization of Human Calcific Aortic Valve Disease in vitro Modeling Reveals Passage-Dependent Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 49.	1.1	49
74	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.	1.2	187
75	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.	1.1	1
76	Differential miRNA Loading Underpins Dual Harmful and Protective Roles for Extracellular Vesicles in Atherogenesis. <i>Circulation Research</i> , 2019, 124, 467-469.	2.0	14
77	Valve under the microscope: shining a light on emerging technologies elucidating disease mechanisms. <i>Heart</i> , 2019, 105, 1610-1611.	1.2	6
78	MicroRNA Extracellular Vesicle Stowaways in Cell-Cell Communication and Organ Crosstalk. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2448-2450.	1.1	5
79	Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and Dll4-Notch Signaling. <i>Circulation</i> , 2019, 139, 78-96.	1.6	126
80	Endothelial to Mesenchymal Transition in Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2019, 73, 190-209.	1.2	357
81	¹⁸ 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.	1.3	92
82	Cardiovascular calcification: artificial intelligence and big data accelerate mechanistic discovery. <i>Nature Reviews Cardiology</i> , 2019, 16, 261-274.	6.1	121
83	Mitral Valve Adaptation to Isolated Annular Dilation. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 665-677.	2.3	102
84	Extracellular vesicles in cardiovascular homeostasis and disease. <i>Current Opinion in Cardiology</i> , 2018, 33, 290-297.	0.8	39
85	Mitral Valve Adaptation. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007642.	1.3	3
86	Dimerization of sortilin regulates its trafficking to extracellular vesicles. <i>Journal of Biological Chemistry</i> , 2018, 293, 4532-4544.	1.6	41
87	Calcific aortic valve stenosis: hard disease in the heart. <i>European Heart Journal</i> , 2018, 39, 2618-2624.	1.0	127
88	Flow Preservation of Umbilical Vein for Autologous Shunt and Cardiovascular Reconstruction. <i>Annals of Thoracic Surgery</i> , 2018, 105, 1809-1818.	0.7	3
89	Spatiotemporal Multi-Omics Mapping Generates a Molecular Atlas of the Aortic Valve and Reveals Networks Driving Disease. <i>Circulation</i> , 2018, 138, 377-393.	1.6	180
90	New insights into mitral valve dystrophy: a Filamin-A genotype phenotype and outcome study. <i>European Heart Journal</i> , 2018, 39, 1269-1277.	1.0	44

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91	Sortilin and Its Multiple Roles in Cardiovascular and Metabolic Diseases. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 19-25.	1.1	76
92	Calcific Aortic Valve Disease: Pathobiology, Basic Mechanisms, and Clinical Strategies. , 2018, , 153-179.		1
93	Editorial: Extracellular Vesicle-Mediated Processes in Cardiovascular Diseases. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 133.	1.1	6
94	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.	5.5	6,961
95	Roles and Regulation of Extracellular Vesicles in Cardiovascular Mineral Metabolism. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 187.	1.1	78
96	The Transcriptional Signature of Growth in Human Fetal Aortic Valve Development. <i>Annals of Thoracic Surgery</i> , 2018, 106, 1834-1840.	0.7	5
97	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.	1.1	20
98	Engineering a 3D-Bioprinted Model of Human Heart Valve Disease Using Nanoindentation-Based Biomechanics. <i>Nanomaterials</i> , 2018, 8, 296.	1.9	81
99	Detection of Aggregation-Competent Tau in Neuron-Derived Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2018, 19, 663.	1.8	140
100	Transcriptional control of intestinal cholesterol absorption, adipose energy expenditure and lipid handling by Sortilin. <i>Scientific Reports</i> , 2018, 8, 9006.	1.6	17
101	<i>In vitro</i> 3D model and miRNA drug delivery to target calcific aortic valve disease. <i>Clinical Science</i> , 2017, 131, 181-195.	1.8	24
102	Serum Sortilin Associates With Aortic Calcification and Cardiovascular Risk in Men. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1005-1011.	1.1	44
103	Interferon- β 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.	1.9	44
104	Flow Perturbation Mediates Neutrophil Recruitment and Potentiates Endothelial Injury via TLR2 in Mice. <i>Circulation Research</i> , 2017, 121, 31-42.	2.0	141
105	A Rock and a Hard Place. <i>Circulation</i> , 2017, 135, 1951-1955.	1.6	50
106	Dynamin-Related Protein 1 Inhibition Attenuates Cardiovascular Calcification in the Presence of Oxidative Stress. <i>Circulation Research</i> , 2017, 121, 220-233.	2.0	88
107	Mitral Leaflet Changes Following Myocardial Infarction. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	50
108	Macrophage Heterogeneity Complicates Reversal of Calcification in Cardiovascular Tissues. <i>Circulation Research</i> , 2017, 121, 5-7.	2.0	22

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109	Effect of Losartan on Mitral Valve Changes After Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2017, 70, 1232-1244.	1.2	97
110	Extracellular Vesicles As Mediators of Cardiovascular Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 78.	1.1	103
111	3.18 Immunohistochemistry \hat{a} †. , 2017, , 387-405.		3
112	Cathepsin S As an Inhibitor of Cardiovascular Inflammation and Calcification in Chronic Kidney Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 88.	1.1	30
113	Elastomeric Fibrous Hybrid Scaffold Supports In Vitro and In Vivo Tissue Formation. <i>Advanced Functional Materials</i> , 2017, 27, 1606614.	7.8	25
114	Giving Calcification Its Due: Recognition of a Diverse Disease. <i>Circulation Research</i> , 2017, 120, 270-273.	2.0	52
115	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.	0.5	27
116	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.	1.1	11
117	Extracellular vesicles in cardiovascular disease: focus on vascular calcification. <i>Journal of Physiology</i> , 2016, 594, 2877-2880.	1.3	31
118	Noninvasive Molecular Imaging of Disease Activity in Atherosclerosis. <i>Circulation Research</i> , 2016, 119, 330-340.	2.0	114
119	Zooming in on the genesis of atherosclerotic plaque microcalcifications. <i>Journal of Physiology</i> , 2016, 594, 2915-2927.	1.3	36
120	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.	5.2	254
121	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.	0.4	92
122	CD45 Expression in Mitral Valve Endothelial Cells After Myocardial Infarction. <i>Circulation Research</i> , 2016, 119, 1215-1225.	2.0	69
123	Current Trends and Future Perspectives of State-of-the-Art Proteomics Technologies Applied to Cardiovascular Disease Research. <i>Circulation Journal</i> , 2016, 80, 1674-1683.	0.7	11
124	PARP9 and PARP14 cross-regulate macrophage activation via STAT1 ADP-ribosylation. <i>Nature Communications</i> , 2016, 7, 12849.	5.8	214
125	Comparative Histopathological Analysis of Mitral Valves in Barlow Disease and Fibroelastic Deficiency. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2016, 28, 757-767.	0.4	25
126	Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	19

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127	Extracellular vesicles in cardiovascular calcification: expanding current paradigms. <i>Journal of Physiology</i> , 2016, 594, 2895-2903.	1.3	88
128	Genesis and growth of extracellular-vesicle-derived microcalcification in atherosclerotic plaques. <i>Nature Materials</i> , 2016, 15, 335-343.	13.3	298
129	Myocardial Infarction Alters Adaptation of the Tethered Mitral Valve. <i>Journal of the American College of Cardiology</i> , 2016, 67, 275-287.	1.2	93
130	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.	0.9	70
131	3D Ultrasound: seeing is understanding—from imaging to pathophysiology to developing therapies in secondary MR. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 510-511.	0.5	0
132	Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor- β^2 Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 525-533.	1.1	58
133	Mouse Models of Atherosclerosis. , 2016, , 159-193.		0
134	Sortilin mediates vascular calcification via its recruitment into extracellular vesicles. <i>Journal of Clinical Investigation</i> , 2016, 126, 1323-1336.	3.9	196
135	N-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.	0.8	6
136	Pitavastatin Reduces Inflammation in Atherosclerotic Plaques in Apolipoprotein E-Deficient Mice with Late Stage Renal Disease. <i>PLoS ONE</i> , 2015, 10, e0138047.	1.1	13
137	Pathobiology and Optical Molecular Imaging of Calcific Aortic Valve Disease. , 2015, , 187-199.		0
138	Selective Cathepsin S Inhibition Attenuates Atherosclerosis in Apolipoprotein E-Deficient Mice with Chronic Renal Disease. <i>American Journal of Pathology</i> , 2015, 185, 1156-1166.	1.9	63
139	EVpedia: a community web portal for extracellular vesicles research. <i>Bioinformatics</i> , 2015, 31, 933-939.	1.8	317
140	Valvular interstitial cells suppress calcification of valvular endothelial cells. <i>Atherosclerosis</i> , 2015, 242, 251-260.	0.4	135
141	Cardiovascular calcification: current controversies and novel concepts. <i>Cardiovascular Pathology</i> , 2015, 24, 207-212.	0.7	69
142	Mitral valve disease—morphology and mechanisms. <i>Nature Reviews Cardiology</i> , 2015, 12, 689-710.	6.1	281
143	A Not-So-Little Role for Lipoprotein(a) in the Development of Calcific Aortic Valve Disease. <i>Circulation</i> , 2015, 132, 621-623.	1.6	17
144	Revisiting cardiovascular calcification: A multifaceted disease requiring a multidisciplinary approach. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 68-77.	2.3	37

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145	Directing Valvular Interstitial Cell Myofibroblast-Like Differentiation in a Hybrid Hydrogel Platform. <i>Advanced Healthcare Materials</i> , 2015, 4, 121-130.	3.9	66
146	Innovations in Microscopic Imaging of Atherosclerosis and Valvular Disease. , 2015, , 251-265.		2
147	Optical Molecular Imaging of Inflammation and Calcification in Atherosclerosis. , 2015, , 107-120.		0
148	Heart Valve Disease. , 2014, , 1014-1032.		0
149	Modifying Vascular Calcification in Diabetes Mellitus. <i>Circulation Research</i> , 2014, 114, 1074-1076.	2.0	13
150	Small entities with large impact. <i>Current Opinion in Lipidology</i> , 2014, 25, 327-332.	1.2	117
151	Calcific and Degenerative Heart Valve Disease. , 2014, , 161-180.		12
152	Cystathionine β -lyase Accelerates Osteoclast Differentiation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 626-634.	1.1	37
153	Parathyroid Hormone. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1333-1335.	1.1	32
154	Calcific Aortic Valve Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2387-2393.	1.1	261
155	Potential drug targets for calcific aortic valve disease. <i>Nature Reviews Cardiology</i> , 2014, 11, 218-231.	6.1	123
156	Enrichment of calcifying extracellular vesicles using density-based ultracentrifugation protocol. <i>Journal of Extracellular Vesicles</i> , 2014, 3, 25129.	5.5	39
157	A Novel Quantitative Approach for Eliminating Sample-To-Sample Variation Using a Hue Saturation Value Analysis Program. <i>PLoS ONE</i> , 2014, 9, e89627.	1.1	15
158	Identification of Early Pathological Events in Calcific Aortic Valve Disease by Molecular Imaging. , 2014, , 107-116.		0
159	MicroRNA in Cardiovascular Calcification. <i>Circulation Research</i> , 2013, 112, 1073-1084.	2.0	86
160	Role of Extracellular Vesicles in De Novo Mineralization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1753-1758.	1.1	125
161	Visualizing novel concepts of cardiovascular calcification. <i>Trends in Cardiovascular Medicine</i> , 2013, 23, 71-79.	2.3	37
162	Elastogenesis at the onset of human cardiac valve development. <i>Development (Cambridge)</i> , 2013, 140, 2345-2353.	1.2	51

#	ARTICLE	IF	CITATIONS
163	Leukocyte-Derived Microparticles as Proinflammatory Mediators in Atherosclerosis. <i>Journal of the American College of Cardiology</i> , 2013, 62, 1442-1445.	1.2	12
164	Statins suppress apolipoprotein CIII-induced vascular endothelial cell activation and monocyte adhesion. <i>European Heart Journal</i> , 2013, 34, 615-624.	1.0	74
165	Cardiovascular Inflammation 2012: Reactive Oxygen Species, SUMOylation, and Biomarkers in Cardiovascular Inflammation. <i>International Journal of Inflammation</i> , 2013, 2013, 1-2.	0.9	7
166	Macrophage-Derived Matrix Vesicles. <i>Circulation Research</i> , 2013, 113, 72-77.	2.0	471
167	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, 10741-10746.	3.3	289
168	Medial and Intimal Calcification in Chronic Kidney Disease: Stressing the Contributions. <i>Journal of the American Heart Association</i> , 2013, 2, e000481.	1.6	26
169	Simulating early calcific aortic valve disease within novel in vitro 3D tissue platform. <i>European Heart Journal</i> , 2013, 34, P3908-P3908.	1.0	1
170	International Society for Extracellular Vesicles: Second Annual Meeting, 17â€“20 April 2013, Boston, MA (ISEV 2013). <i>Journal of Extracellular Vesicles</i> , 2013, 2, 23070.	5.5	2
171	Biology of Mitral Valve Disease. , 2013, , 173-185.		1
172	Vesiclepedia: A Compendium for Extracellular Vesicles with Continuous Community Annotation. <i>PLoS Biology</i> , 2012, 10, e1001450.	2.6	1,064
173	Cardiovascular Inflammation. <i>International Journal of Inflammation</i> , 2012, 2012, 1-2.	0.9	7
174	Inhibition of Bone Morphogenetic Protein Signaling Reduces Vascular Calcification and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 613-622.	1.1	188
175	Look More Closely at the Valve. <i>Circulation</i> , 2012, 125, 9-11.	1.6	44
176	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.	3.3	144
177	Vasculitis: Molecular Imaging by Targeting the Inflammatory Enzyme Myeloperoxidase. <i>Radiology</i> , 2012, 262, 181-190.	3.6	23
178	Molecular Imaging of Macrophages in Atherosclerosis. <i>Current Cardiovascular Imaging Reports</i> , 2012, 5, 45-52.	0.4	1
179	In vivo detection of <i>Staphylococcus aureus</i> endocarditis by targeting pathogen-specific prothrombin activation. <i>Nature Medicine</i> , 2011, 17, 1142-1146.	15.2	144
180	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, 19943-19948.	3.3	145

#	ARTICLE	IF	CITATIONS
181	Immunohistochemistry. , 2011, , 277-290.		6
182	Mitral Valve Endothelial Cells With Osteogenic Differentiation Potential. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 598-607.	1.1	117
183	Calcific Aortic Valve Disease: Not Simply a Degenerative Process. Circulation, 2011, 124, 1783-1791.	1.6	699
184	Cardiovascular Calcification - An Inflammatory Disease -. Circulation Journal, 2011, 75, 1305-1313.	0.7	120
185	The Osteoclast-Associated Receptor (OSCAR) Is a Novel Receptor Regulated by Oxidized Low-Density Lipoprotein in Human Endothelial Cells. Endocrinology, 2011, 152, 4915-4926.	1.4	36
186	Progenitor Cells Confer Plasticity to Cardiac Valve Endothelium. Journal of Cardiovascular Translational Research, 2011, 4, 710-719.	1.1	67
187	Fibroblast activation protein is induced by inflammation and degrades type I collagen in thin-cap fibroatheromata. European Heart Journal, 2011, 32, 2713-2722.	1.0	112
188	Indocyanine Green Enables Near-Infrared Fluorescence Imaging of Lipid-Rich, Inflamed Atherosclerotic Plaques. Science Translational Medicine, 2011, 3, 84ra45.	5.8	174
189	Molecular Imaging Insights Into Early Inflammatory Stages of Arterial and Aortic Valve Calcification. Circulation Research, 2011, 108, 1381-1391.	2.0	276
190	Selective Inhibition of Matrix Metalloproteinase-13 Increases Collagen Content of Established Mouse Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2464-2472.	1.1	111
191	Optical Molecular Imaging of Inflammation and Calcification in Atherosclerosis. Current Cardiovascular Imaging Reports, 2010, 3, 12-17.	0.4	2
192	In vivo monitoring of function of autologous engineered pulmonary valve. Journal of Thoracic and Cardiovascular Surgery, 2010, 139, 723-731.	0.4	126
193	Expression of the familial cardiac valvular dystrophy gene, filaminA, during heart morphogenesis. Developmental Dynamics, 2010, 239, 2118-2127.	0.8	46
194	The role of organ level conditioning on the promotion of engineered heart valve tissue development in-vitro using mesenchymal stem cells. Biomaterials, 2010, 31, 1114-1125.	5.7	84
195	Pioglitazone Suppresses Inflammation In Vivo in Murine Carotid Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1933-1939.	1.1	51
196	Intravital Molecular Imaging of Small-Diameter Tissue-Engineered Vascular Grafts in Mice: A Feasibility Study. Tissue Engineering - Part C: Methods, 2010, 16, 597-607.	1.1	35
197	Endothelial Progenitor Cells as a Sole Source for <i>Ex Vivo</i> Seeding of Tissue-Engineered Heart Valves. Tissue Engineering - Part A, 2010, 16, 257-267.	1.6	72
198	Arterial and aortic valve calcification inversely correlates with osteoporotic bone remodelling: a role for inflammation. European Heart Journal, 2010, 31, 1975-1984.	1.0	180

#	ARTICLE	IF	CITATIONS
199	Impaired Infarct Healing in Atherosclerotic Mice With Ly-6Chi Monocytosis. <i>Journal of the American College of Cardiology</i> , 2010, 55, 1629-1638.	1.2	281
200	Arterial and Aortic Valve Calcification Abolished by Elastolytic Cathepsin S Deficiency in Chronic Renal Disease. <i>Circulation</i> , 2009, 119, 1785-1794.	1.6	272
201	Chronic Hypoxia Activates the Akt and β -Catenin Pathways in Human Macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1664-1670.	1.1	39
202	Diffusion Spectrum MRI Tractography Reveals the Presence of a Complex Network of Residual Myofibers in Infarcted Myocardium. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 206-212.	1.3	103
203	The antiproliferative cytostatic effects of a self-activating viridin prodrug. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 1666-1675.	1.9	19
204	Molecular MRI Detects Low Levels of Cardiomyocyte Apoptosis in a Transgenic Model of Chronic Heart Failure. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 468-475.	1.3	50
205	Molecular Imaging of Innate Immune Cell Function in Transplant Rejection. <i>Circulation</i> , 2009, 119, 1925-1932.	1.6	81
206	Hybrid In Vivo FMT-CT Imaging of Protease Activity in Atherosclerosis With Customized Nanosensors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1444-1451.	1.1	161
207	Molecular MRI of Cardiomyocyte Apoptosis With Simultaneous Delayed-Enhancement MRI Distinguishes Apoptotic and Necrotic Myocytes In Vivo. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, 460-467.	1.3	92
208	Active Adaptation of the Tethered Mitral Valve. <i>Circulation</i> , 2009, 120, 334-342.	1.6	273
209	Genetically engineered resistance for MMP collagenases promotes abdominal aortic aneurysm formation in mice infused with angiotensin II. <i>Laboratory Investigation</i> , 2009, 89, 315-326.	1.7	55
210	^{18}F -4V for PET-CT Imaging of VCAM-1 Expression in Atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 1213-1222.	2.3	197
211	Oxazine Conjugated Nanoparticle Detects in Vivo Hypochlorous Acid and Peroxynitrite Generation. <i>Journal of the American Chemical Society</i> , 2009, 131, 15739-15744.	6.6	165
212	Identification of Splenic Reservoir Monocytes and Their Deployment to Inflammatory Sites. <i>Science</i> , 2009, 325, 612-616.	6.0	1,806
213	Unbiased discovery of in vivo imaging probes through in vitro profiling of nanoparticle libraries. <i>Integrative Biology (United Kingdom)</i> , 2009, 1, 311.	0.6	20
214	Combined magnetic resonance and fluorescence imaging of the living mouse brain reveals glioma response to chemotherapy. <i>NeuroImage</i> , 2009, 45, 360-369.	2.1	71
215	Nanoparticle PET-CT Imaging of Macrophages in Inflammatory Atherosclerosis. <i>Circulation</i> , 2008, 117, 379-387.	1.6	524
216	Simplified syntheses of complex multifunctional nanomaterials. <i>Chemical Communications</i> , 2008, , 4792.	2.2	38

#	ARTICLE	IF	CITATIONS
217	Transglutaminase activity in acute infarcts predicts healing outcome and left ventricular remodelling: implications for FXIII therapy and antithrombin use in myocardial infarction. <i>European Heart Journal</i> , 2008, 29, 445-454.	1.0	69
218	Early photon tomography allows fluorescence detection of lung carcinomas and disease progression in mice in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19126-19131.	3.3	150
219	Real-Time Catheter Molecular Sensing of Inflammation in Proteolytically Active Atherosclerosis. <i>Circulation</i> , 2008, 118, 1802-1809.	1.6	188
220	Tracking the inflammatory response in stroke in vivo by sensing the enzyme myeloperoxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18584-18589.	3.3	275
221	Activatable Magnetic Resonance Imaging Agent Reports Myeloperoxidase Activity in Healing Infarcts and Noninvasively Detects the Antiinflammatory Effects of Atorvastatin on Ischemia-Reperfusion Injury. <i>Circulation</i> , 2008, 117, 1153-1160.	1.6	178
222	Myeloperoxidase-targeted imaging of active inflammatory lesions in murine experimental autoimmune encephalomyelitis. <i>Brain</i> , 2008, 131, 1123-1133.	3.7	106
223	Biology of Cholesterol Lowering in Atherosclerotic Plaques. <i>Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry</i> , 2008, 8, 105-115.	0.5	1
224	Notch Signaling in Cardiovascular Disease and Calcification. <i>Current Cardiology Reviews</i> , 2008, 4, 148-156.	0.6	57
225	Osteogenesis Associates With Inflammation in Early-Stage Atherosclerosis Evaluated by Molecular Imaging In Vivo. <i>Circulation</i> , 2007, 116, 2841-2850.	1.6	606
226	Multimodality Molecular Imaging Identifies Proteolytic and Osteogenic Activities in Early Aortic Valve Disease. <i>Circulation</i> , 2007, 115, 377-386.	1.6	375
227	Dual Channel Optical Tomographic Imaging of Leukocyte Recruitment and Protease Activity in the Healing Myocardial Infarct. <i>Circulation Research</i> , 2007, 100, 1218-1225.	2.0	151
228	Optical Visualization of Cathepsin K Activity in Atherosclerosis With a Novel, Protease-Activatable Fluorescence Sensor. <i>Circulation</i> , 2007, 115, 2292-2298.	1.6	241
229	Ly-6Chi monocytes dominate hypercholesterolemia-associated monocytosis and give rise to macrophages in atheromata. <i>Journal of Clinical Investigation</i> , 2007, 117, 195-205.	3.9	1,064
230	Healing and remodeling of bioengineered pulmonary artery patches implanted in sheep. <i>Cardiovascular Pathology</i> , 2007, 16, 277-282.	0.7	37
231	The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. <i>Journal of Experimental Medicine</i> , 2007, 204, 3037-3047.	4.2	1,926
232	Fluorescence Tomography and Magnetic Resonance Imaging of Myocardial Macrophage Infiltration in Infarcted Myocardium In Vivo. <i>Circulation</i> , 2007, 115, 1384-1391.	1.6	185
233	The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. <i>Journal of Cell Biology</i> , 2007, 179, i13-i13.	2.3	1
234	Inflammation in Atherosclerosis. <i>Circulation</i> , 2006, 114, 55-62.	1.6	398

#	ARTICLE	IF	CITATIONS
235	Human Semilunar Cardiac Valve Remodeling by Activated Cells From Fetus to Adult. <i>Circulation</i> , 2006, 113, 1344-1352.	1.6	359
236	Cellular Imaging of Inflammation in Atherosclerosis Using Magnetofluorescent Nanomaterials. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00009.	0.7	124
237	Noninvasive Vascular Cell Adhesion Molecule-1 Imaging Identifies Inflammatory Activation of Cells in Atherosclerosis. <i>Circulation</i> , 2006, 114, 1504-1511.	1.6	579
238	Chemokine CXCL10 Promotes Atherogenesis by Modulating the Local Balance of Effector and Regulatory T Cells. <i>Circulation</i> , 2006, 113, 2301-2312.	1.6	237
239	Detection of macrophage activity in atherosclerosis in vivo using multichannel, high-resolution laser scanning fluorescence microscopy. <i>Journal of Biomedical Optics</i> , 2006, 11, 021009.	1.4	41
240	Human Pulmonary Valve Progenitor Cells Exhibit Endothelial/Mesenchymal Plasticity in Response to Vascular Endothelial Growth Factor-A and Transforming Growth Factor- β 2. <i>Circulation Research</i> , 2006, 99, 861-869.	2.0	134
241	Monocyte accumulation in mouse atherogenesis is progressive and proportional to extent of disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10340-10345.	3.3	316
242	Cellular imaging of inflammation in atherosclerosis using magnetofluorescent nanomaterials. <i>Molecular Imaging</i> , 2006, 5, 85-92.	0.7	70
243	Characterization of Human Atherosclerotic Plaques by Intravascular Magnetic Resonance Imaging. <i>Circulation</i> , 2005, 112, 2324-2331.	1.6	125
244	Inhibition of Atherogenesis in BLT1-Deficient Mice Reveals a Role for LTB4 and BLT1 in Smooth Muscle Cell Recruitment. <i>Circulation</i> , 2005, 112, 578-586.	1.6	130
245	Matrix Metalloproteinase-13/Collagenase-3 Deletion Promotes Collagen Accumulation and Organization in Mouse Atherosclerotic Plaques. <i>Circulation</i> , 2005, 112, 2708-2715.	1.6	199
246	Editorial: <i>Frontiers in Cardiovascular Medicine: Rising Stars 2021</i> . <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	0