List of Publications by Year in descending order

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| | | 6592 | 4535 |
|----------|----------------|--------------|----------------|
| 246 | 31,736 | 79 | 171 |
| papers | citations | h-index | g-index |
| | | | |
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| | | | |
| 253 | 253 | 253 | 36922 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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. Journal of Extracellular Vesicles, 2018, 7, 1535750. | 5.5 | 6,961 |
| 2 | The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. Journal of Experimental Medicine, 2007, 204, 3037-3047. | 4.2 | 1,926 |
| 3 | Identification of Splenic Reservoir Monocytes and Their Deployment to Inflammatory Sites. Science, 2009, 325, 612-616. | 6.0 | 1,806 |
| 4 | Ly-6Chi monocytes dominate hypercholesterolemia-associated monocytosis and give rise to macrophages in atheromata. Journal of Clinical Investigation, 2007, 117, 195-205. | 3.9 | 1,064 |
| 5 | Vesiclepedia: A Compendium for Extracellular Vesicles with Continuous Community Annotation. PLoS Biology, 2012, 10, e1001450. | 2.6 | 1,064 |
| 6 | Calcific Aortic Valve Disease: Not Simply a Degenerative Process. Circulation, 2011, 124, 1783-1791. | 1.6 | 699 |
| 7 | Osteogenesis Associates With Inflammation in Early-Stage Atherosclerosis Evaluated by Molecular Imaging In Vivo. Circulation, 2007, 116, 2841-2850. | 1.6 | 606 |
| 8 | Noninvasive Vascular Cell Adhesion Molecule-1 Imaging Identifies Inflammatory Activation of Cells in Atherosclerosis. Circulation, 2006, 114, 1504-1511. | 1.6 | 579 |
| 9 | Nanoparticle PET-CT Imaging of Macrophages in Inflammatory Atherosclerosis. Circulation, 2008, 117, 379-387. | 1.6 | 524 |
| 10 | Macrophage-Derived Matrix Vesicles. Circulation Research, 2013, 113, 72-77. | 2.0 | 471 |
| 11 | Inflammation in Atherosclerosis. Circulation, 2006, 114, 55-62. | 1.6 | 398 |
| 12 | Multimodality Molecular Imaging Identifies Proteolytic and Osteogenic Activities in Early Aortic Valve Disease. Circulation, 2007, 115, 377-386. | 1.6 | 375 |
| 13 | Human Semilunar Cardiac Valve Remodeling by Activated Cells From Fetus to Adult. Circulation, 2006, 113, 1344-1352. | 1.6 | 359 |
| 14 | Endothelial to Mesenchymal Transition inÂCardiovascular Disease. Journal of the American College of Cardiology, 2019, 73, 190-209. | 1.2 | 357 |
| 15 | EVpedia: a community web portal for extracellular vesicles research. Bioinformatics, 2015, 31, 933-939. | 1.8 | 317 |
| 16 | Monocyte accumulation in mouse atherogenesis is progressive and proportional to extent of disease. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10340-10345. | 3.3 | 316 |
| 17 | Genesis and growth of extracellular-vesicle-derived microcalcification inÂatherosclerotic plaques. Nature Materials, 2016, 15, 335-343. | 13.3 | 298 |
| 18 | Revised microcalcification hypothesis for fibrous cap rupture in human coronary arteries. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10741-10746. | 3.3 | 289 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Impaired Infarct Healing in Atherosclerotic Mice With Ly-6ChiMonocytosis. Journal of the American College of Cardiology, 2010, 55, 1629-1638. | 1.2 | 281 |
| 20 | Mitral valve disease—morphology and mechanisms. Nature Reviews Cardiology, 2015, 12, 689-710. | 6.1 | 281 |
| 21 | Molecular Imaging Insights Into Early Inflammatory Stages of Arterial and Aortic Valve Calcification. Circulation Research, 2011, 108, 1381-1391. | 2.0 | 276 |
| 22 | Tracking the inflammatory response in stroke in vivo by sensing the enzyme myeloperoxidase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18584-18589. | 3.3 | 275 |
| 23 | Active Adaptation of the Tethered Mitral Valve. Circulation, 2009, 120, 334-342. | 1.6 | 273 |
| 24 | Arterial and Aortic Valve Calcification Abolished by Elastolytic Cathepsin S Deficiency in Chronic Renal Disease. Circulation, 2009, 119, 1785-1794. | 1.6 | 272 |
| 25 | Calcific Aortic Valve Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2387-2393. | 1.1 | 261 |
| 26 | Adventitial MSC-like Cells Are Progenitors of Vascular Smooth Muscle Cells and Drive Vascular Calcification in Chronic Kidney Disease. Cell Stem Cell, 2016, 19, 628-642. | 5.2 | 254 |
| 27 | Optical Visualization of Cathepsin K Activity in Atherosclerosis With a Novel, Protease-Activatable Fluorescence Sensor. Circulation, 2007, 115, 2292-2298. | 1.6 | 241 |
| 28 | Chemokine CXCL10 Promotes Atherogenesis by Modulating the Local Balance of Effector and Regulatory T Cells. Circulation, 2006, 113, 2301-2312. | 1.6 | 237 |
| 29 | PARP9 and PARP14 cross-regulate macrophage activation via STAT1 ADP-ribosylation. Nature Communications, 2016, 7, 12849. | 5.8 | 214 |
| 30 | Matrix Metalloproteinase-13/Collagenase-3 Deletion Promotes Collagen Accumulation and Organization in Mouse Atherosclerotic Plaques. Circulation, 2005, 112, 2708-2715. | 1.6 | 199 |
| 31 | 18F-4V for PET–CT Imaging of VCAM-1 Expression in Atherosclerosis. JACC: Cardiovascular Imaging, 2009, 2, 1213-1222. | 2.3 | 197 |
| 32 | Sortilin mediates vascular calcification via its recruitment into extracellular vesicles. Journal of Clinical Investigation, 2016, 126, 1323-1336. | 3.9 | 196 |
| 33 | Real-Time Catheter Molecular Sensing of Inflammation in Proteolytically Active Atherosclerosis. Circulation, 2008, 118, 1802-1809. | 1.6 | 188 |
| 34 | Inhibition of Bone Morphogenetic Protein Signaling Reduces Vascular Calcification and Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 613-622. | 1.1 | 188 |
| 35 | Lipoprotein(a) and Oxidized Phospholipids Promote Valve Calcification in Patients With AorticÂStenosis. Journal of the American College of Cardiology, 2019, 73, 2150-2162. | 1.2 | 187 |
| 36 | Fluorescence Tomography and Magnetic Resonance Imaging of Myocardial Macrophage Infiltration in Infarcted Myocardium In Vivo. Circulation, 2007, 115, 1384-1391. | 1.6 | 185 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | Spatiotemporal Multi-Omics Mapping Generates a Molecular Atlas of the Aortic Valve and Reveals Networks Driving Disease. Circulation, 2018, 138, 377-393. | 1.6 | 180 |
| 39 | Activatable Magnetic Resonance Imaging Agent Reports Myeloperoxidase Activity in Healing Infarcts and Noninvasively Detects the Antiinflammatory Effects of Atorvastatin on Ischemia-Reperfusion Injury. Circulation, 2008, 117, 1153-1160. | 1.6 | 178 |
| 40 | Indocyanine Green Enables Near-Infrared Fluorescence Imaging of Lipid-Rich, Inflamed Atherosclerotic Plaques. Science Translational Medicine, 2011, 3, 84ra45. | 5.8 | 174 |
| 41 | Oxazine Conjugated Nanoparticle Detects in Vivo Hypochlorous Acid and Peroxynitrite Generation. Journal of the American Chemical Society, 2009, 131, 15739-15744. | 6.6 | 165 |
| 42 | Hybrid In Vivo FMT-CT Imaging of Protease Activity in Atherosclerosis With Customized Nanosensors. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1444-1451. | 1.1 | 161 |
| 43 | Dual Channel Optical Tomographic Imaging of Leukocyte Recruitment and Protease Activity in the Healing Myocardial Infarct. Circulation Research, 2007, 100, 1218-1225. | 2.0 | 151 |
| 44 | Early photon tomography allows fluorescence detection of lung carcinomas and disease progression in mice in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19126-19131. | 3.3 | 150 |
| 45 | Cyclic strain induces dual-mode endothelial-mesenchymal transformation of the cardiac valve. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19943-19948. | 3.3 | 145 |
| 46 | In vivo detection of Staphylococcus aureus endocarditis by targeting pathogen-specific prothrombin activation. Nature Medicine, 2011, 17, 1142-1146. | 15.2 | 144 |
| 47 | Notch ligand Delta-like 4 blockade attenuates atherosclerosis and metabolic disorders. Proceedings of the United States of America, 2012, 109, E1868-77. | 3.3 | 144 |
| 48 | Flow Perturbation Mediates Neutrophil Recruitment and Potentiates Endothelial Injury via TLR2 in Mice. Circulation Research, 2017, 121, 31-42. | 2.0 | 141 |
| 49 | Detection of Aggregation-Competent Tau in Neuron-Derived Extracellular Vesicles. International Journal of Molecular Sciences, 2018, 19, 663. | 1.8 | 140 |
| 50 | Valvular interstitial cells suppress calcification of valvular endothelial cells. Atherosclerosis, 2015, 242, 251-260. | 0.4 | 135 |
| 51 | Human Pulmonary Valve Progenitor Cells Exhibit Endothelial/Mesenchymal Plasticity in Response to Vascular Endothelial Growth Factor-A and Transforming Growth Factor-β 2. Circulation Research, 2006, 99, 861-869. | 2.0 | 134 |
| 52 | Inhibition of Atherogenesis in BLT1-Deficient Mice Reveals a Role for LTB4 and BLT1 in Smooth Muscle Cell Recruitment. Circulation, 2005, 112, 578-586. | 1.6 | 130 |
| 53 | Calcific aortic valve stenosis: hard disease in the heart. European Heart Journal, 2018, 39, 2618-2624. | 1.0 | 127 |
| 54 | In vivo monitoring of function of autologous engineered pulmonary valve. Journal of Thoracic and Cardiovascular Surgery, 2010, 139, 723-731. | 0.4 | 126 |

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| 55 | Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and Dll4-Notch Signaling. Circulation, 2019, 139, 78-96. | 1.6 | 126 |
| 56 | Characterization of Human Atherosclerotic Plaques by Intravascular Magnetic Resonance Imaging. Circulation, 2005, 112, 2324-2331. | 1.6 | 125 |
| 57 | Role of Extracellular Vesicles in De Novo Mineralization. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1753-1758. | 1.1 | 125 |
| 58 | Cellular Imaging of Inflammation in Atherosclerosis Using Magnetofluorescent Nanomaterials. Molecular Imaging, 2006, 5, 7290.2006.00009. | 0.7 | 124 |
| 59 | Potential drug targets for calcific aortic valve disease. Nature Reviews Cardiology, 2014, 11, 218-231. | 6.1 | 123 |
| 60 | Cardiovascular calcification: artificial intelligence and big data accelerate mechanistic discovery. Nature Reviews Cardiology, 2019, 16, 261-274. | 6.1 | 121 |
| 61 | Cardiovascular Calcification - An Inflammatory Disease Circulation Journal, 2011, 75, 1305-1313. | 0.7 | 120 |
| 62 | Mitral Valve Endothelial Cells With Osteogenic Differentiation Potential. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 598-607. | 1.1 | 117 |
| 63 | Small entities with large impact. Current Opinion in Lipidology, 2014, 25, 327-332. | 1.2 | 117 |
| 64 | Noninvasive Molecular Imaging of Disease Activity in Atherosclerosis. Circulation Research, 2016, 119, 330-340. | 2.0 | 114 |
| 65 | 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 |
| 66 | 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 |
| 67 | Myeloperoxidase-targeted imaging of active inflammatory lesions in murine experimental autoimmune encephalomyelitis. Brain, 2008, 131, 1123-1133. | 3.7 | 106 |
| 68 | Diffusion Spectrum MRI Tractography Reveals the Presence of a Complex Network of Residual Myofibers in Infarcted Myocardium. Circulation: Cardiovascular Imaging, 2009, 2, 206-212. | 1.3 | 103 |
| 69 | Extracellular Vesicles As Mediators of Cardiovascular Calcification. Frontiers in Cardiovascular Medicine, 2017, 4, 78. | 1.1 | 103 |
| 70 | Mitral Valve Adaptation to IsolatedÂAnnular Dilation. JACC: Cardiovascular Imaging, 2019, 12, 665-677. | 2.3 | 102 |
| 71 | Effect of Losartan on Mitral Valve Changes After Myocardial Infarction. Journal of the American College of Cardiology, 2017, 70, 1232-1244. | 1.2 | 97 |
| 72 | Myocardial Infarction Alters Adaptation ofÂthe Tethered Mitral Valve. Journal of the American College of Cardiology, 2016, 67, 275-287. | 1.2 | 93 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Molecular MRI of Cardiomyocyte Apoptosis With Simultaneous Delayed-Enhancement MRI Distinguishes Apoptotic and Necrotic Myocytes In Vivo. Circulation: Cardiovascular Imaging, 2009, 2, 460-467. | 1.3 | 92 |
| 74 | A single injection of gain-of-function mutant PCSK9 adeno-associated virus vector induces cardiovascular calcification in mice with no genetic modification. Atherosclerosis, 2016, 251, 109-118. | 0.4 | 92 |
| 75 | ¹⁸ F-Fluoride Signal Amplification Identifies Microcalcifications Associated With Atherosclerotic Plaque Instability in Positron Emission Tomography/Computed Tomography Images. Circulation: Cardiovascular Imaging, 2019, 12, e007835. | 1.3 | 92 |
| 76 | Extracellular vesicles in cardiovascular calcification: expanding current paradigms. Journal of Physiology, 2016, 594, 2895-2903. | 1.3 | 88 |
| 77 | Dynamin-Related Protein 1 Inhibition Attenuates Cardiovascular Calcification in the Presence of Oxidative Stress. Circulation Research, 2017, 121, 220-233. | 2.0 | 88 |
| 78 | MicroRNA in Cardiovascular Calcification. Circulation Research, 2013, 112, 1073-1084. | 2.0 | 86 |
| 79 | 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 |
| 80 | Molecular Imaging of Innate Immune Cell Function in Transplant Rejection. Circulation, 2009, 119, 1925-1932. | 1.6 | 81 |
| 81 | Engineering a 3D-Bioprinted Model of Human Heart Valve Disease Using Nanoindentation-Based Biomechanics. Nanomaterials, 2018, 8, 296. | 1.9 | 81 |
| 82 | Roles and Regulation of Extracellular Vesicles in Cardiovascular Mineral Metabolism. Frontiers in Cardiovascular Medicine, 2018, 5, 187. | 1.1 | 78 |
| 83 | Sortilin and Its Multiple Roles in Cardiovascular and Metabolic Diseases. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 19-25. | 1.1 | 76 |
| 84 | Calcific aortic valve disease: from molecular and cellular mechanisms to medical therapy. European Heart Journal, 2022, 43, 683-697. | 1.0 | 76 |
| 85 | Statins suppress apolipoprotein CIII-induced vascular endothelial cell activation and monocyte adhesion. European Heart Journal, 2013, 34, 615-624. | 1.0 | 74 |
| 86 | 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 |
| 87 | Combined magnetic resonance and fluorescence imaging of the living mouse brain reveals glioma response to chemotherapy. NeuroImage, 2009, 45, 360-369. | 2.1 | 71 |
| 88 | Simulation of early calcific aortic valve disease in a 3D platform: A role for myofibroblast differentiation. Journal of Molecular and Cellular Cardiology, 2016, 94, 13-20. | 0.9 | 70 |
| 89 | Cellular imaging of inflammation in atherosclerosis using magnetofluorescent nanomaterials. Molecular Imaging, 2006, 5, 85-92. | 0.7 | 70 |
| 90 | Transglutaminase activity in acute infarcts predicts healing outcome and left ventricular remodelling: implications for FXIII therapy and antithrombin use in myocardial infarction. European Heart Journal, 2008, 29, 445-454. | 1.0 | 69 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Cardiovascular calcification: current controversies and novel concepts. Cardiovascular Pathology, 2015, 24, 207-212. | 0.7 | 69 |
| 92 | CD45 Expression in Mitral Valve Endothelial Cells After Myocardial Infarction. Circulation Research, 2016, 119, 1215-1225. | 2.0 | 69 |
| 93 | Progenitor Cells Confer Plasticity to Cardiac Valve Endothelium. Journal of Cardiovascular Translational Research, 2011, 4, 710-719. | 1.1 | 67 |
| 94 | Directing Valvular Interstitial Cell Myofibroblast‣ike Differentiation in a Hybrid Hydrogel Platform. Advanced Healthcare Materials, 2015, 4, 121-130. | 3.9 | 66 |
| 95 | Annexin A1–dependent tethering promotes extracellular vesicle aggregation revealed with single–extracellular vesicle analysis. Science Advances, 2020, 6, . | 4.7 | 65 |
| 96 | Selective Cathepsin S Inhibition Attenuates Atherosclerosis in Apolipoprotein E–Deficient Mice with Chronic Renal Disease. American Journal of Pathology, 2015, 185, 1156-1166. | 1.9 | 63 |
| 97 | Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor-β Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 525-533. | 1.1 | 58 |
| 98 | Notch Signaling in Cardiovascular Disease and Calcification. Current Cardiology Reviews, 2008, 4, 148-156. | 0.6 | 57 |
| 99 | Genetically engineered resistance for MMP collagenases promotes abdominal aortic aneurysm formation in mice infused with angiotensin II. Laboratory Investigation, 2009, 89, 315-326. | 1.7 | 55 |
| 100 | S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1838-1853. | 1.1 | 52 |
| 101 | Giving Calcification Its Due: Recognition of a Diverse Disease. Circulation Research, 2017, 120, 270-273. | 2.0 | 52 |
| 102 | Pioglitazone Suppresses Inflammation In Vivo in Murine Carotid Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1933-1939. | 1.1 | 51 |
| 103 | Elastogenesis at the onset of human cardiac valve development. Development (Cambridge), 2013, 140, 2345-2353. | 1.2 | 51 |
| 104 | Molecular MRI Detects Low Levels of Cardiomyocyte Apoptosis in a Transgenic Model of Chronic Heart Failure. Circulation: Cardiovascular Imaging, 2009, 2, 468-475. | 1.3 | 50 |
| 105 | A Rock and a Hard Place. Circulation, 2017, 135, 1951-1955. | 1.6 | 50 |
| 106 | Mitral Leaflet Changes Following Myocardial Infarction. Circulation: Cardiovascular Imaging, 2017, 10, . | 1.3 | 50 |
| 107 | Standardization of Human Calcific Aortic Valve Disease in vitro Modeling Reveals Passage-Dependent Calcification. Frontiers in Cardiovascular Medicine, 2019, 6, 49. | 1.1 | 49 |
| 108 | Expression of the familial cardiac valvular dystrophy gene, filaminâ€A, during heart morphogenesis. Developmental Dynamics, 2010, 239, 2118-2127. | 0.8 | 46 |

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|-----|---|-----|-----------|
| 109 | Look More Closely at the Valve. Circulation, 2012, 125, 9-11. | 1.6 | 44 |
| 110 | Serum Sortilin Associates With Aortic Calcification and Cardiovascular Risk in Men. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1005-1011. | 1.1 | 44 |
| 111 | Interferon-Î ³ Released by Activated CD8+ T Lymphocytes Impairs the Calcium Resorption Potential of Osteoclasts in Calcified Human Aortic Valves. American Journal of Pathology, 2017, 187, 1413-1425. | 1.9 | 44 |
| 112 | New insights into mitral valve dystrophy: a Filamin-A genotype–phenotype and outcome study. European Heart Journal, 2018, 39, 1269-1277. | 1.0 | 44 |
| 113 | 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 |
| 114 | Nitric oxide prevents aortic valve calcification by S-nitrosylation of USP9X to activate NOTCH signaling. Science Advances, 2021, 7, . | 4.7 | 43 |
| 115 | Detection of macrophage activity in atherosclerosis in vivo using multichannel, high-resolution laser scanning fluorescence microscopy. Journal of Biomedical Optics, 2006, 11, 021009. | 1.4 | 41 |
| 116 | Dimerization of sortilin regulates its trafficking to extracellular vesicles. Journal of Biological Chemistry, 2018, 293, 4532-4544. | 1.6 | 41 |
| 117 | Innate and adaptive immunity in cardiovascular calcification. Atherosclerosis, 2020, 306, 59-67. | 0.4 | 41 |
| 118 | Chronic Hypoxia Activates the Akt and β-Catenin Pathways in Human Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1664-1670. | 1.1 | 39 |
| 119 | Enrichment of calcifying extracellular vesicles using densityâ€based ultracentrifugation protocol. Journal of Extracellular Vesicles, 2014, 3, 25129. | 5.5 | 39 |
| 120 | Extracellular vesicles in cardiovascular homeostasis and disease. Current Opinion in Cardiology, 2018, 33, 290-297. | 0.8 | 39 |
| 121 | Multi-Omics Approaches to Define Calcific Aortic Valve Disease Pathogenesis. Circulation Research, 2021, 128, 1371-1397. | 2.0 | 39 |
| 122 | Simplified syntheses of complex multifunctional nanomaterials. Chemical Communications, 2008, , 4792. | 2.2 | 38 |
| 123 | InÂSitu Remodeling Overrules Bioinspired Scaffold Architecture of Supramolecular Elastomeric Tissue-Engineered Heart Valves. JACC Basic To Translational Science, 2020, 5, 1187-1206. | 1.9 | 38 |
| 124 | Healing and remodeling of bioengineered pulmonary artery patches implanted in sheep. Cardiovascular Pathology, 2007, 16, 277-282. | 0.7 | 37 |
| 125 | Visualizing novel concepts of cardiovascular calcification. Trends in Cardiovascular Medicine, 2013, 23, 71-79. | 2.3 | 37 |
| 126 | Cystathionine Î ³ -lyase Accelerates Osteoclast Differentiation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 626-634. | 1.1 | 37 |

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|-----|---|-----|-----------|
| 127 | Revisiting cardiovascular calcification: A multifaceted disease requiring a multidisciplinary approach. Seminars in Cell and Developmental Biology, 2015, 46, 68-77. | 2.3 | 37 |
| 128 | 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 |
| 129 | Zooming in on the genesis of atherosclerotic plaque microcalcifications. Journal of Physiology, 2016, 594, 2915-2927. | 1.3 | 36 |
| 130 | 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 |
| 131 | Attenuated Mitral Leaflet Enlargement Contributes to Functional Mitral Regurgitation After Myocardial Infarction. Journal of the American College of Cardiology, 2020, 75, 395-405. | 1.2 | 33 |
| 132 | Parathyroid Hormone. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1333-1335. | 1.1 | 32 |
| 133 | Extracellular vesicles in cardiovascular disease: focus on vascular calcification. Journal of Physiology, 2016, 594, 2877-2880. | 1.3 | 31 |
| 134 | Cathepsin S As an Inhibitor of Cardiovascular Inflammation and Calcification in Chronic Kidney Disease. Frontiers in Cardiovascular Medicine, 2017, 4, 88. | 1.1 | 30 |
| 135 | Rheumatic Heart Valve Disease Pathophysiology and Underlying Mechanisms. Frontiers in Cardiovascular Medicine, 2020, 7, 612716. | 1.1 | 30 |
| 136 | Circulating Extracellular Vesicles As Biomarkers and Drug Delivery Vehicles in Cardiovascular Diseases. Biomolecules, 2021, 11, 388. | 1.8 | 30 |
| 137 | Innate and adaptive immunity: the understudied driving force of heart valve disease. Cardiovascular Research, 2021, 117, 2506-2524. | 1.8 | 30 |
| 138 | ApoC-III is a novel inducer of calcification in human aortic valves. Journal of Biological Chemistry, 2021, 296, 100193. | 1.6 | 28 |
| 139 | Histopathological assessment of calcification and inflammation of calcific aortic valves from patients with and without diabetes mellitus. Histology and Histopathology, 2017, 32, 293-306. | 0.5 | 27 |
| 140 | Role of Extracellular Vesicles in the Pathogenesis of Vascular Damage. Hypertension, 2022, 79, 863-873. | 1.3 | 27 |
| 141 | Medial and Intimal Calcification in Chronic Kidney Disease: Stressing the Contributions. Journal of the American Heart Association, 2013, 2, e000481. | 1.6 | 26 |
| 142 | Harnessing Single-Cell RNA Sequencing to Better Understand How Diseased Cells Behave the Way They Do in Cardiovascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 585-600. | 1.1 | 26 |
| 143 | Comparative Histopathological Analysis of Mitral Valves in Barlow Disease and Fibroelastic Deficiency. Seminars in Thoracic and Cardiovascular Surgery, 2016, 28, 757-767. | 0.4 | 25 |
| 144 | Elastomeric Fibrous Hybrid Scaffold Supports In Vitro and In Vivo Tissue Formation. Advanced Functional Materials, 2017, 27, 1606614. | 7.8 | 25 |

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| 145 | <i>In vitro</i> 3D model and miRNA drug delivery to target calcific aortic valve disease. Clinical Science, 2017, 131, 181-195. | 1.8 | 24 |
| 146 | Vasculitis: Molecular Imaging by Targeting the Inflammatory Enzyme Myeloperoxidase. Radiology, 2012, 262, 181-190. | 3.6 | 23 |
| 147 | Macrophage Heterogeneity Complicates Reversal of Calcification in Cardiovascular Tissues. Circulation Research, 2017, 121, 5-7. | 2.0 | 22 |
| 148 | Systems Approach to Discovery of Therapeutic Targets for Vein Graft Disease: PPARα Pivotally Regulates Metabolism, Activation, and Heterogeneity of Macrophages and Lesion Development. Circulation, 2021, 143, 2454-2470. | 1.6 | 21 |
| 149 | Unbiased discovery of in vivo imaging probes through in vitro profiling of nanoparticle libraries. Integrative Biology (United Kingdom), 2009, 1, 311. | 0.6 | 20 |
| 150 | Sheep-Specific Immunohistochemical Panel for the Evaluation of Regenerative and Inflammatory Processes in Tissue-Engineered Heart Valves. Frontiers in Cardiovascular Medicine, 2018, 5, 105. | 1.1 | 20 |
| 151 | The antiproliferative cytostatic effects of a self-activating viridin prodrug. Molecular Cancer Therapeutics, 2009, 8, 1666-1675. | 1.9 | 19 |
| 152 | Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. Journal of Visualized Experiments, 2016, , . | 0.2 | 19 |
| 153 | Aortic valve calcification predicts all-cause mortality independent of coronary calcification and severe stenosis. Atherosclerosis, 2020, 307, 16-20. | 0.4 | 18 |
| 154 | A Not-So-Little Role for Lipoprotein(a) in the Development of Calcific Aortic Valve Disease. Circulation, 2015, 132, 621-623. | 1.6 | 17 |
| 155 | Transcriptional control of intestinal cholesterol absorption, adipose energy expenditure and lipid handling by Sortilin. Scientific Reports, 2018, 8, 9006. | 1.6 | 17 |
| 156 | Retinoids Repress Human Cardiovascular Cell Calcification With Evidence for Distinct Selective Retinoid Modulator Effects. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 656-669. | 1.1 | 17 |
| 157 | CROT (Carnitine O-Octanoyltransferase) Is a Novel Contributing Factor in Vascular Calcification via Promoting Fatty Acid Metabolism and Mitochondrial Dysfunction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 755-768. | 1.1 | 17 |
| 158 | Dynamin-related protein 1 inhibition reduces hepatic PCSK9 secretion. Cardiovascular Research, 2021, 117, 2340-2353. | 1.8 | 16 |
| 159 | A disease-driver population within interstitial cells of human calcific aortic valves identified via single-cell and proteomic profiling. Cell Reports, 2022, 39, 110685. | 2.9 | 16 |
| 160 | A Novel Quantitative Approach for Eliminating Sample-To-Sample Variation Using a Hue Saturation Value Analysis Program. PLoS ONE, 2014, 9, e89627. | 1.1 | 15 |
| 161 | Controlled delivery of gold nanoparticle-coupled miRNA therapeutics <i>via</i> an injectable self-healing hydrogel. Nanoscale, 2021, 13, 20451-20461. | 2.8 | 15 |
| 162 | Differential miRNA Loading Underpins Dual Harmful and Protective Roles for Extracellular Vesicles in Atherogenesis. Circulation Research, 2019, 124, 467-469. | 2.0 | 14 |

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| # | Article | IF | CITATIONS |
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