

# Paul W Fedak

## List of Publications by Citations

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163  
papers

9,993  
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46  
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192  
ext. papers

11,392  
ext. citations

5.6  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
163	A self-fulfilling prophecy: C-reactive protein attenuates nitric oxide production and inhibits angiogenesis. <i>Circulation</i> , <b>2002</b> , 106, 913-9	16.7	821
162	Clinical and pathophysiological implications of a bicuspid aortic valve. <i>Circulation</i> , <b>2002</b> , 106, 900-4	16.7	568
161	Resistin promotes endothelial cell activation: further evidence of adipokine-endothelial interaction. <i>Circulation</i> , <b>2003</b> , 108, 736-40	16.7	536
160	Endothelin antagonism and interleukin-6 inhibition attenuate the proatherogenic effects of C-reactive protein. <i>Circulation</i> , <b>2002</b> , 105, 1890-6	16.7	507
159	C-reactive protein attenuates endothelial progenitor cell survival, differentiation, and function: further evidence of a mechanistic link between C-reactive protein and cardiovascular disease. <i>Circulation</i> , <b>2004</b> , 109, 2058-67	16.7	460
158	The role of the plasma from platelet concentrates in transfusion reactions. <i>New England Journal of Medicine</i> , <b>1994</b> , 331, 625-8	59.2	434
157	C-reactive protein upregulates angiotensin type 1 receptors in vascular smooth muscle. <i>Circulation</i> , <b>2003</b> , 107, 1783-90	16.7	433
156	Cardioprotective c-kit <sup>+</sup> cells are from the bone marrow and regulate the myocardial balance of angiogenic cytokines. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 1865-77	15.9	418
155	Vascular matrix remodeling in patients with bicuspid aortic valve malformations: implications for aortic dilatation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2003</b> , 126, 797-806	1.5	330
154	Fundamentals of reperfusion injury for the clinical cardiologist. <i>Circulation</i> , <b>2002</b> , 105, 2332-6	16.7	297
153	Bicuspid aortic cusp fusion morphology alters aortic three-dimensional outflow patterns, wall shear stress, and expression of aortopathy. <i>Circulation</i> , <b>2014</b> , 129, 673-82	16.7	274
152	Valve-Related Hemodynamics Mediate Human Bicuspid Aortopathy: Insights From Wall Shear Stress Mapping. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 66, 892-900	15.1	251
151	Should the ascending aorta be replaced more frequently in patients with bicuspid aortic valve disease?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2004</b> , 128, 677-83	1.5	236
150	Endothelial progenitor cells: new hope for a broken heart. <i>Circulation</i> , <b>2003</b> , 107, 3093-100	16.7	233
149	Hepatocyte growth factor or vascular endothelial growth factor gene transfer maximizes mesenchymal stem cell-based myocardial salvage after acute myocardial infarction. <i>Circulation</i> , <b>2009</b> , 120, S247-54	16.7	180
148	Comparison of coronary artery bypass surgery and percutaneous coronary intervention in patients with diabetes: a meta-analysis of randomised controlled trials. <i>Lancet Diabetes and Endocrinology</i> , <b>2013</b> , 1, 317-28	18.1	140
147	Mechanical stretch regimen enhances the formation of bioengineered autologous cardiac muscle grafts. <i>Circulation</i> , <b>2002</b> , 106, 1137-42	16.7	134

146	Rosiglitazone facilitates angiogenic progenitor cell differentiation toward endothelial lineage: a new paradigm in glitazone pleiotropy. <i>Circulation</i> , <b>2004</b> , 109, 1392-400	16.7	130
145	TIMP-3 deficiency leads to dilated cardiomyopathy. <i>Circulation</i> , <b>2004</b> , 110, 2401-9	16.7	129
144	Evolving concepts and technologies in mitral valve repair. <i>Circulation</i> , <b>2008</b> , 117, 963-74	16.7	127
143	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Full online-only version. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 156, e41-e74	1.5	109
142	C-reactive protein alters antioxidant defenses and promotes apoptosis in endothelial progenitor cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2006</b> , 26, 2476-82	9.4	109
141	Integrin-linked kinase expression is elevated in human cardiac hypertrophy and induces hypertrophy in transgenic mice. <i>Circulation</i> , <b>2006</b> , 114, 2271-9	16.7	101
140	Cardiac remodeling and failure From molecules to man (Part II). <i>Cardiovascular Pathology</i> , <b>2005</b> , 14, 49-66	3.8	101
139	Mitochondrial NLRP3 protein induces reactive oxygen species to promote Smad protein signaling and fibrosis independent from the inflammasome. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 19571-84	5.4	99
138	Cardiac remodeling and failure: from molecules to man (Part I). <i>Cardiovascular Pathology</i> , <b>2005</b> , 14, 1-11	3.8	90
137	Altered expression of disintegrin metalloproteinases and their inhibitor in human dilated cardiomyopathy. <i>Circulation</i> , <b>2006</b> , 113, 238-45	16.7	86
136	Aortic Valve Stenosis Alters Expression of Regional Aortic Wall Shear Stress: New Insights From a 4-Dimensional Flow Magnetic Resonance Imaging Study of 571 Subjects. <i>Journal of the American Heart Association</i> , <b>2017</b> , 6,	6	81
135	Matrix remodeling in experimental and human heart failure: a possible regulatory role for TIMP-3. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2003</b> , 284, H626-34	5.2	81
134	Glitazones and heart failure: critical appraisal for the clinician. <i>Circulation</i> , <b>2003</b> , 107, 1350-4	16.7	79
133	C-reactive protein activates the nuclear factor-kappaB signal transduction pathway in saphenous vein endothelial cells: implications for atherosclerosis and restenosis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2003</b> , 126, 1886-91	1.5	73
132	Cell transplantation preserves cardiac function after infarction by infarct stabilization: augmentation by stem cell factor. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2005</b> , 130, 1310	1.5	72
131	Stem cell factor deficiency is vasculoprotective: unraveling a new therapeutic potential of imatinib mesylate. <i>Circulation Research</i> , <b>2006</b> , 99, 617-25	15.7	66
130	C-reactive protein upregulates complement-inhibitory factors in endothelial cells. <i>Circulation</i> , <b>2004</b> , 109, 833-6	16.7	66
129	Characterization of abnormal wall shear stress using 4D flow MRI in human bicuspid aortopathy. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 1385-97	4.7	61

128	Gata6 Pericardial Cavity Macrophages Relocate to the Injured Heart and Prevent Cardiac Fibrosis. <i>Immunity</i> , <b>2019</b> , 51, 131-140.e5	32.3	61
127	Knowledge, attitudes, and practice patterns in surgical management of bicuspid aortopathy: a survey of 100 cardiac surgeons. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 146, 1033-1040.e4	1.5	61
126	C-Reactive protein upregulates receptor for advanced glycation end products expression in human endothelial cells. <i>Hypertension</i> , <b>2006</b> , 48, 504-11	8.5	58
125	Hyperglycaemic impairment of PAR2-mediated vasodilation: Prevention by inhibition of aortic endothelial sodium-glucose-co-Transporter-2 and minimizing oxidative stress. <i>Vascular Pharmacology</i> , <b>2018</b> , 109, 56-71	5.9	57
124	Hyperglycemia exaggerates ischemia-reperfusion-induced cardiomyocyte injury: reversal with endothelin antagonism. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 123, 1120-4	1.5	57
123	Bicuspid aortic valve disease: recent insights in pathophysiology and treatment. <i>Expert Review of Cardiovascular Therapy</i> , <b>2005</b> , 3, 295-308	2.5	52
122	Aortic valve-mediated wall shear stress is heterogeneous and predicts regional aortic elastic fiber thinning in bicuspid aortic valve-associated aortopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 156, 2112-2120.e2	1.5	50
121	Epicardial infarct repair with basic fibroblast growth factor-enhanced CorMatrix-ECM biomaterial attenuates postischemic cardiac remodeling. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2014</b> , 147, 1650-9	1.5	50
120	TIMP-3 deficiency accelerates cardiac remodeling after myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 43, 733-43	5.8	50
119	Cell transplantation preserves matrix homeostasis: a novel paracrine mechanism. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2005</b> , 130, 1430-9	1.5	47
118	Fibroblast growth factor-2 regulates human cardiac myofibroblast-mediated extracellular matrix remodeling. <i>Journal of Translational Medicine</i> , <b>2015</b> , 13, 147	8.5	46
117	Hyperglycemia potentiates the proatherogenic effects of C-reactive protein: reversal with rosiglitazone. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2003</b> , 35, 417-9	5.8	45
116	Mechanical Stretch Regimen Enhances the Formation of Bioengineered Autologous Cardiac Muscle Grafts. <i>Circulation</i> , <b>2002</b> , 106,	16.7	45
115	Novel cardioprotective effects of tetrahydrobiopterin after anoxia and reoxygenation: Identifying cellular targets for pharmacologic manipulation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 123, 1074-83	1.5	44
114	Monocytes increase human cardiac myofibroblast-mediated extracellular matrix remodeling through TGF- $\beta$ . <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 310, H716-24	5.2	43
113	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Executive summary. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 156, 473-480	1.5	42
112	Enhanced IGF-1 expression improves smooth muscle cell engraftment after cell transplantation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 287, H2840-9	5.2	42
111	Kryptonite bone cement prevents pathologic sternal displacement. <i>Annals of Thoracic Surgery</i> , <b>2010</b> , 90, 979-85	2.7	41

110	Canadian Cardiovascular Society/Canadian Association of Interventional Cardiology/Canadian Society of Cardiac Surgery position statement on revascularization--multivessel coronary artery disease. <i>Canadian Journal of Cardiology</i> , <b>2014</b> , 30, 1482-91	3.8	40
109	Direct Effects of Empagliflozin on Extracellular Matrix Remodelling in Human Cardiac Myofibroblasts: Novel Translational Clues to Explain EMPA-REG OUTCOME Results. <i>Canadian Journal of Cardiology</i> , <b>2020</b> , 36, 543-553	3.8	40
108	Paracrine effects of cell transplantation: modifying ventricular remodeling in the failing heart. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , <b>2008</b> , 20, 87-93	1.7	38
107	Epicardial infarct repair with bioinductive extracellular matrix promotes vasculogenesis and myocardial recovery. <i>Journal of Heart and Lung Transplantation</i> , <b>2016</b> , 35, 661-70	5.8	35
106	Increased endothelin-1 production in diabetic patients after cardioplegic arrest and reperfusion impairs coronary vascular reactivity: reversal by means of endothelin antagonism. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 123, 1114-9	1.5	34
105	Novel cardioprotective effects of pravastatin in human ventricular cardiomyocytes subjected to hypoxia and reoxygenation: beneficial effects of statins independent of endothelial cells. <i>Journal of Surgical Research</i> , <b>2004</b> , 119, 66-71	2.5	31
104	Bioactive Extracellular Matrix Scaffold Promotes Adaptive Cardiac Remodeling and Repair. <i>JACC Basic To Translational Science</i> , <b>2017</b> , 2, 450-464	8.7	30
103	Cell-Specific Functions of ADAM17 Regulate the Progression of Thoracic Aortic Aneurysm. <i>Circulation Research</i> , <b>2018</b> , 123, 372-388	15.7	30
102	Adhesive-enhanced sternal closure to improve postoperative functional recovery: a pilot, randomized controlled trial. <i>Annals of Thoracic Surgery</i> , <b>2011</b> , 92, 1444-50	2.7	30
101	Cardiac remodeling and failure: from molecules to man (Part III). <i>Cardiovascular Pathology</i> , <b>2005</b> , 14, 109-119	3.9	30
100	Tissue-Engineered Grafts Matured in the Right Ventricular Outflow Tract. <i>Cell Transplantation</i> , <b>2004</b> , 13, 169-177	4	29
99	Transplantation of cryopreserved muscle cells in dilated cardiomyopathy: effects on left ventricular geometry and function. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2003</b> , 126, 1537-48	1.5	28
98	Cell therapy limits myofibroblast differentiation and structural cardiac remodeling: basic fibroblast growth factor-mediated paracrine mechanism. <i>Circulation: Heart Failure</i> , <b>2012</b> , 5, 349-56	7.6	27
97	Determinants of health-related quality of life in adults with congenital heart disease. <i>Congenital Heart Disease</i> , <b>2007</b> , 2, 301-13	3.1	26
96	Differential impact of mechanical unloading on structural and nonstructural components of the extracellular matrix in advanced human heart failure. <i>Translational Research</i> , <b>2016</b> , 172, 30-44	11	25
95	Human cardiac fibroblast extracellular matrix remodeling: dual effects of tissue inhibitor of metalloproteinase-2. <i>Cardiovascular Pathology</i> , <b>2014</b> , 23, 335-43	3.8	24
94	Off-pump coronary artery bypass surgery: fundamentals for the clinical cardiologist. <i>Circulation</i> , <b>2004</b> , 109, 1206-11	16.7	24
93	Acellular Extracellular Matrix Bioscaffolds for Cardiac Repair and Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , <b>2019</b> , 7, 63	5.7	23

92	Perioperative evaluation of regional aortic wall shear stress patterns in patients undergoing aortic valve and/or proximal thoracic aortic replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 155, 2277-2286.e2	1.5	22
91	Cell-based gene therapy modifies matrix remodeling after a myocardial infarction in tissue inhibitor of matrix metalloproteinase-3-deficient mice. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2009</b> , 137, 471-80	1.5	22
90	Cell transplantation to improve ventricular function in the failing heart. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2003</b> , 23, 907-16	3	22
89	Combined endothelial and myocardial protection by endothelin antagonism enhances transplant allograft preservation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2005</b> , 129, 407-15	1.5	22
88	Comparison of outcomes and presentation in men-versus-women with bicuspid aortic valves undergoing aortic valve replacement. <i>American Journal of Cardiology</i> , <b>2015</b> , 116, 250-5	3	21
87	Use of diffusion tensor imaging to predict myocardial viability after warm global ischemia: possible avenue for use of non-beating donor hearts. <i>Journal of Heart and Lung Transplantation</i> , <b>2007</b> , 26, 376-83 <sup>5.8</sup>	5.8	21
86	Na(+) current expression in human atrial myofibroblasts: identity and functional roles. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 275	4.6	20
85	Effect of aortic aneurysm replacement on outcomes after bicuspid aortic valve surgery: validation of contemporary guidelines. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2014</b> , 148, 2060-9	1.5	19
84	Enhancing sternal closure using Kryptonite bone adhesive: technical report. <i>Surgical Innovation</i> , <b>2011</b> , 18, NP8-11	2	19
83	Tetrandrine reverses human cardiac myofibroblast activation and myocardial fibrosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 308, H1564-74	5.2	18
82	Heparin Augmentation Enhances Bioactive Properties of Acellular Extracellular Matrix Scaffold. <i>Tissue Engineering - Part A</i> , <b>2018</b> , 24, 128-134	3.9	18
81	Induction of human aortic myofibroblast-mediated extracellular matrix dysregulation: A potential mechanism of fluoroquinolone-associated aortopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2019</b> , 157, 109-119.e2	1.5	18
80	Bicuspid aortic valve syndrome: heterogeneous but predictable?. <i>European Heart Journal</i> , <b>2008</b> , 29, 432-3 <sup>3.5</sup>	3.5	17
79	Year in review: bicuspid aortopathy. <i>Current Opinion in Cardiology</i> , <b>2016</b> , 31, 132-8	2.1	16
78	Safety and efficacy of prophylactic negative pressure wound therapy following open saphenous vein harvest in cardiac surgery: a feasibility study. <i>Interactive Cardiovascular and Thoracic Surgery</i> , <b>2017</b> , 24, 324-328	1.8	15
77	Using Acellular Bioactive Extracellular Matrix Scaffolds to Enhance Endogenous Cardiac Repair. <i>Frontiers in Cardiovascular Medicine</i> , <b>2018</b> , 5, 35	5.4	14
76	The molecular fingerprint of bicuspid aortopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 145, 1334	1.5	14
75	Tetrahydrobiopterin deficiency exaggerates intimal hyperplasia after vascular injury. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2005</b> , 289, R299-304	3.2	14

74	Pressure drop mapping using 4D flow MRI in patients with bicuspid aortic valve disease: A novel marker of valvular obstruction. <i>Magnetic Resonance Imaging</i> , <b>2020</b> , 65, 175-182	3.3	14
73	Mind the Gap: Current Challenges and Future State of Heart Failure Care. <i>Canadian Journal of Cardiology</i> , <b>2017</b> , 33, 1434-1449	3.8	13
72	Restoration and regeneration of failing myocardium with cell transplantation and tissue engineering. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , <b>2003</b> , 15, 277-86	1.7	13
71	Statin Use and Aneurysm Risk in Patients With Bicuspid Aortic Valve Disease. <i>Clinical Cardiology</i> , <b>2016</b> , 39, 41-7	3.3	13
70	Endothelin blockade potentiates endothelial protective effects of ACE inhibitors in saphenous veins. <i>Annals of Thoracic Surgery</i> , <b>2002</b> , 73, 1185-8	2.7	12
69	Human pericardial proteoglycan 4 (lubricin): Implications for postcardiotomy intrathoracic adhesion formation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 156, 1598-1608.e1	1.5	11
68	Bicuspid aortic valve aortopathy: mechanistic and clinical insights from recent studies. <i>Current Opinion in Cardiology</i> , <b>2017</b> , 32, 111-116	2.1	10
67	Interval changes in aortic peak velocity and wall shear stress in patients with bicuspid aortic valve disease. <i>International Journal of Cardiovascular Imaging</i> , <b>2019</b> , 35, 1925-1934	2.5	10
66	Bicuspid aortic valve-associated aortopathy: update on biomarkers. <i>Current Opinion in Cardiology</i> , <b>2018</b> , 33, 134-139	2.1	9
65	International consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2021</b> , 162, e383-e414	1.5	9
64	Caveolin: a key target for modulating nitric oxide availability in health and disease. <i>Molecular and Cellular Biochemistry</i> , <b>2003</b> , 247, 101-9	4.2	8
63	Post-Operative Adhesions: A Comprehensive Review of Mechanisms. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	8
62	Role of mutation and pharmacologic block of human KCNH2 in vasculogenesis and fetal mortality: partial rescue by transforming growth factor- $\beta$ . <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2015</b> , 8, 420-8	6.4	7
61	Acellular bioscaffolds redirect cardiac fibroblasts and promote functional tissue repair in rodents and humans with myocardial injury. <i>Scientific Reports</i> , <b>2020</b> , 10, 9459	4.9	7
60	The science of BAV aortopathy. <i>Progress in Cardiovascular Diseases</i> , <b>2020</b> , 63, 465-474	8.5	7
59	Utilizing wall shear stress as a clinical biomarker for bicuspid valve-associated aortopathy. <i>Current Opinion in Cardiology</i> , <b>2019</b> , 34, 124-131	2.1	7
58	Promoting Cardiac Regeneration and Repair Using Acellular Biomaterials. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 291	5.8	6
57	Evolution of Precision Medicine and Surgical Strategies for Bicuspid Aortic Valve-Associated Aortopathy. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 475	4.6	6

56	Response to letter regarding article, "Bicuspid aortic cusp fusion morphology alters aortic three-dimensional outflow patterns, wall shear stress, and expression of aortopathy". <i>Circulation</i> , <b>2014</b> , 130, e171	16.7	6
55	Does ischemic preconditioning afford clinically relevant cardioprotection?. <i>American Journal of Cardiovascular Drugs</i> , <b>2003</b> , 3, 1-11	4	6
54	Cell transplantation in non-ischemic dilated cardiomyopathy. A novel biological approach for ventricular restoration. <i>General Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 50, 457-60		6
53	Prevention of Post-Operative Adhesions: A Comprehensive Review of Present and Emerging Strategies. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	6
52	Evaluation of a novel sutureless anastomotic connector: from endothelial function to mid-term clinical and angiographic follow-up. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2003</b> , 126, 1555-60	1.5	5
51	Cardiac restoration by cell transplantation. <i>International Journal of Cardiology</i> , <b>2004</b> , 95 Suppl 1, S5-7	3.2	5
50	International consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2021</b> , 60, 448-476	3	5
49	Adhesive-Enhanced Sternal Closure: Feasibility and Safety of Late Sternal Reentry. <i>Case Reports in Surgery</i> , <b>2017</b> , 2017, 8605313	0.5	4
48	Aortic valve malformations and pulmonary autograft root dilatation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 123, 1222-3; author reply 1223-4	1.5	4
47	Bicuspid aortic valve disease is associated with abnormal wall shear stress, viscous energy loss, and pressure drop within the ascending thoracic aorta: A cross-sectional study. <i>Medicine (United States)</i> , <b>2021</b> , 100, e26518	1.8	4
46	Association of Regional Wall Shear Stress and Progressive Ascending Aorta Dilatation in Bicuspid Aortic Valve. <i>JACC: Cardiovascular Imaging</i> , <b>2021</b> ,	8.4	4
45	Application of Bioengineered Materials in the Surgical Management of Heart Failure. <i>Frontiers in Cardiovascular Medicine</i> , <b>2019</b> , 6, 123	5.4	3
44	Impact of age, sex, and global function on normal aortic hemodynamics. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2088-2102	4.4	3
43	Catalyzing capital for Canada's life sciences industry. <i>Journal of Commercial Biotechnology</i> , <b>2011</b> , 17, 330-348	2	3
42	Mechanical and Structural Remodeling of Cardiac Muscle after Aerobic and Resistance Exercise Training in Rats. <i>Medicine and Science in Sports and Exercise</i> , <b>2021</b> , 53, 1583-1594	1.2	3
41	International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. <i>Annals of Thoracic Surgery</i> , <b>2021</b> , 112, e203-e235	2.7	3
40	Surgical management of the aorta in BAV patients. <i>Progress in Cardiovascular Diseases</i> , <b>2020</b> , 63, 475-481	18.5	2
39	Cell transplantation, ventricular remodeling, and the extracellular matrix. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 123, 0584-0585	1.5	2



38	International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. <i>Radiology: Cardiothoracic Imaging</i> , <b>2021</b> , 3, e200496	8.3	2
37	Acellular biomaterial modulates myocardial inflammation and promotes endogenous mechanisms of postinfarct cardiac repair.. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2021</b> ,	1.5	2
36	Commentary: Using ex vivo modeling to validate technical innovations in cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2019</b> , 158, 404-405	1.5	1
35	Evolving Surgical Approaches to Bicuspid Aortic Valve Associated Aortopathy. <i>Frontiers in Cardiovascular Medicine</i> , <b>2019</b> , 6, 19	5.4	1
34	Fluoroquinolone-Associated Type A Aortic Dissection in Alpha-1 Anti-Trypsin Deficiency. <i>Annals of Thoracic Surgery</i> , <b>2020</b> , 110, e489-e491	2.7	1
33	On the RuspRoF clinical feasibility: aortic wall shear stress derived non-invasively with 4D flow MRI. <i>Journal of Thoracic Disease</i> , <b>2019</b> , 11, E96-E97	2.6	1
32	Hemodynamic Assessment in Bicuspid Aortic Valve Disease and Aortic Dilation: New Insights From Voxel-By-Voxel Analysis of Reverse Flow, Stasis, and Energetics.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 725113	5.8	1
31	Aorta-specific DNA methylation patterns in cell-free DNA from patients with bicuspid aortic valve-associated aortopathy. <i>Clinical Epigenetics</i> , <b>2021</b> , 13, 147	7.7	1
30	An overview of human pericardial space and pericardial fluid. <i>Cardiovascular Pathology</i> , <b>2021</b> , 53, 107346	3.8	1
29	Summary: international consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2021</b> , 60, 481-496	3	1
28	Minimally invasive cardiac surgery and the importance of qualitative patient-centered metrics to guide innovations. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2019</b> , 157, e356-e357	1.5	0
27	The CorMatrix CorIPATCH for epicardial infarct repair. <i>Future Cardiology</i> , <b>2021</b> , 17, 1297-1305	1.3	0
26	Lack of Equity in the Cardiology Physician Workforce: A Narrative Review and Analysis of the Literature.. <i>CJC Open</i> , <b>2021</b> , 3, S180-S186	2	0
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