Paul W Fedak

List of Publications by Year in Descending Order

163 papers	9,993 citations	46 h-index	99 g-index
192 ext. papers	11,392 ext. citations	5.6 avg, IF	5.64 L-index

#	Paper	IF	Citations
163	Biomechanics in ascending aortic aneurysms correlate with tissue composition and strength. *JTCVS Open*, **2022**, 9, 1-10	0.2	0
162	Hemodynamic Assessment in Bicuspid Aortic Valve Disease and Aortic Dilation: New Insights From Voxel-By-Voxel Analysis of Reverse Flow, Stasis, and Energetics.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 725113	5.8	1
161	Commentary: The return on investment for cardiothoracic surgeon-scientists. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 162, 1767-1768	1.5	
160	Commentary: How to save and improve the lives of families with heritable aortic diseases. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	
159	Commentary: Past is Prologue - Leveraging Big Data to Optimize Future Operative Risk Prediction. *Seminars in Thoracic and Cardiovascular Surgery*, **2021**,	1.7	
158	Mechanical and Structural Remodeling of Cardiac Muscle after Aerobic and Resistance Exercise Training in Rats. *Medicine and Science in Sports and Exercise*, **2021**, 53, 1583-1594	1.2	3
157	The CorMatrix CorPATCH for epicardial infarct repair. *Future Cardiology*, **2021**, 17, 1297-1305	1.3	0
156	Commentary: The 4AT score-Reducing confusion about delirium diagnosis after cardiac surgery. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	
155	Aorta-specific DNA methylation patterns in cell-free DNA from patients with bicuspid aortic valve-associated aortopathy. *Clinical Epigenetics*, **2021**, 13, 147	7.7	1
154	Prevention of Post-Operative Adhesions: A Comprehensive Review of Present and Emerging Strategies. *Biomolecules*, **2021**, 11,	5.9	6
153	An overview of human pericardial space and pericardial fluid. *Cardiovascular Pathology*, **2021**, 53, 107346	3.8	1
152	Post-Operative Adhesions: A Comprehensive Review of Mechanisms. *Biomedicines*, **2021**, 9,	4.8	8
151	Commentary: The promise of precision cardiovascular surgery. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 161, 661-662	1.5	
150	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. *Medicine (United States)*, **2021**, 100, e26518	1.8	4
149	Summary: international consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. *European Journal of Cardio-thoracic Surgery*, **2021**, 60, 481-496	3	1
148	International consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. *European Journal of Cardio-thoracic Surgery*, **2021**, 60, 448-476	3	5
147	International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. *Radiology: Cardiothoracic Imaging*, **2021**, 3, e200496	8.3	2

146	Association of Regional Wall Shear Stress and Progressive Ascending Aorta Dilation in Bicuspid Aortic Valve. *JACC: Cardiovascular Imaging*, **2021**,	8.4	4
145	Lack of Equity in the Cardiology Physician Workforce: A Narrative Review and Analysis of the Literature.. *CJC Open*, **2021**, 3, S180-S186	2	0
144	Commentary: Cell therapy for spinal regeneration Implications for recovery after complex aortic surgery. *JTCVS Open*, **2021**, 7, 45-46	0.2	
143	International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. *Annals of Thoracic Surgery*, **2021**, 112, e203-e235	2.7	3
142	Commentary: Cell therapy goes subcellular. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	
141	International consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 162, e383-e414	1.5	9
140	Commentary: Use the force: Gaining mechanistic insights on aortic valve calcification using magnetic twisting cytometry. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	
139	Ischemic heart disease: Cellular and molecular immune contributions of the pericardium. *International Journal of Biochemistry and Cell Biology*, **2021**, 140, 106076	5.6	0
138	Acellular biomaterial modulates myocardial inflammation and promotes endogenous mechanisms of postinfarct cardiac repair.. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	2
137	Commentary: Transplanting the powerhouse of the cell to enhance cardiopulmonary repair. *Journal of Thoracic and Cardiovascular Surgery*, **2020**,	1.5	
136	Commentary: Fluoroquinolone antibiotics are antiaortic. *Journal of Thoracic and Cardiovascular Surgery*, **2020**,	1.5	
135	Fluoroquinolone-Associated Type A Aortic Dissection in Alpha-1 Anti-Trypsin Deficiency. *Annals of Thoracic Surgery*, **2020**, 110, e489-e491	2.7	1
134	Acellular bioscaffolds redirect cardiac fibroblasts and promote functional tissue repair in rodents and humans with myocardial injury. *Scientific Reports*, **2020**, 10, 9459	4.9	7
133	Impact of age, sex, and global function on normal aortic hemodynamics. *Magnetic Resonance in Medicine*, **2020**, 84, 2088-2102	4.4	3
132	The science of BAV aortopathy. *Progress in Cardiovascular Diseases*, **2020**, 63, 465-474	8.5	7
131	Surgical management of the aorta in BAV patients. *Progress in Cardiovascular Diseases*, **2020**, 63, 475-481	8.5	2
130	Promoting Cardiac Regeneration and Repair Using Acellular Biomaterials. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 291	5.8	6
129	Direct Effects of Empagliflozin on Extracellular Matrix Remodelling in Human Cardiac Myofibroblasts: Novel Translational Clues to Explain EMPA-REG OUTCOME Results. *Canadian Journal of Cardiology*, **2020**, 36, 543-553	3.8	40

128	Pressure drop mapping using 4D flow MRI in patients with bicuspid aortic valve disease: A novel marker of valvular obstruction. *Magnetic Resonance Imaging*, **2020**, 65, 175-182	3.3	14
127	Commentary: The mutation matters: Improving precision for surgical management of hereditary aortic syndromes. *Journal of Thoracic and Cardiovascular Surgery*, **2020**,	1.5	
126	Commentary: Blame the sculptors for the heart of stone-Uncovering cellular mechanisms of aortic valve calcification. *Journal of Thoracic and Cardiovascular Surgery*, **2020**, 159, 1754-1755	1.5	
125	Application of Bioengineered Materials in the Surgical Management of Heart Failure. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 123	5.4	3
124	Interval changes in aortic peak velocity and wall shear stress in patients with bicuspid aortic valve disease. *International Journal of Cardiovascular Imaging*, **2019**, 35, 1925-1934	2.5	10
123	Acellular Extracellular Matrix Bioscaffolds for Cardiac Repair and Regeneration. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 63	5.7	23
122	Impact of Aortopathy and Aortic Valve Disease on 3D Blood Flow and Wall Shear Stress in the Thoracic Aorta: As Assessed by 4D Flow MRI **2019**, 447-464		
121	Commentary: Using ex vivo modeling to validate technical innovations in cardiac surgery. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 158, 404-405	1.5	1
120	Evolving Surgical Approaches to Bicuspid Aortic Valve Associated Aortopathy. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 19	5.4	1
119	Minimally invasive cardiac surgery presents challenges for design of randomized clinical trials. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, e133-e134	1.5	
118	Minimally invasive cardiac surgery and the importance of qualitative patient-centered metrics to guide innovations. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, e356-e357	1.5	0
117	On the RuspRof clinical feasibility: aortic wall shear stress derived non-invasively with 4D flow MRI. *Journal of Thoracic Disease*, **2019**, 11, E96-E97	2.6	1
116	Gata6 Pericardial Cavity Macrophages Relocate to the Injured Heart and Prevent Cardiac Fibrosis. *Immunity*, **2019**, 51, 131-140.e5	32.3	61
115	Commentary: Cause or consequence? The influence of mitral regurgitation on post-myocardial infarction structural remodeling is better defined using a new rodent model. *Journal of Thoracic and Cardiovascular Surgery*, **2019**,	1.5	
114	Utilizing wall shear stress as a clinical biomarker for bicuspid valve-associated aortopathy. *Current Opinion in Cardiology*, **2019**, 34, 124-131	2.1	7
113	Commentary: Structural valve degeneration in the era of precision medicine. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, 1391-1392	1.5	
112	Induction of human aortic myofibroblast-mediated extracellular matrix dysregulation: A potential mechanism of fluoroquinolone-associated aortopathy. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, 109-119.e2	1.5	18
111	Perioperative evaluation of regional aortic wall shear stress patterns in patients undergoing aortic valve and/or proximal thoracic aortic replacement. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 155, 2277-2286.e2	1.5	22

110	Heparin Augmentation Enhances Bioactive Properties of Acellular Extracellular Matrix Scaffold. *Tissue Engineering - Part A*, **2018**, 24, 128-134	3.9	18
109	Cell-Specific Functions of ADAM17 Regulate the Progression of Thoracic Aortic Aneurysm. *Circulation Research*, **2018**, 123, 372-388	15.7	30
108	Aortic valve-mediated wall shear stress is heterogeneous and predicts regional aortic elastic fiber thinning in bicuspid aortic valve-associated aortopathy. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, 2112-2120.e2	1.5	50
107	Using Acellular Bioactive Extracellular Matrix Scaffolds to Enhance Endogenous Cardiac Repair. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 35	5.4	14
106	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Executive summary. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, 473-480	1.5	42
105	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Full online-only version. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, e41-e74	1.5	109
104	Human pericardial proteoglycan 4 (lubricin): Implications for postcardiotomy intrathoracic adhesion formation. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, 1598-1608.e1	1.5	11
103	Hyperglycaemic impairment of PAR2-mediated vasodilation: Prevention by inhibition of aortic endothelial sodium-glucose-co-Transporter-2 and minimizing oxidative stress. *Vascular Pharmacology*, **2018**, 109, 56-71	5.9	57
102	Bicuspid aortic valve-associated aortopathy: update on biomarkers. *Current Opinion in Cardiology*, **2018**, 33, 134-139	2.1	9
101	Bicuspid aortic valve aortopathy: mechanistic and clinical insights from recent studies. *Current Opinion in Cardiology*, **2017**, 32, 111-116	2.1	10
100	Bioactive Extracellular Matrix Scaffold Promotes Adaptive Cardiac Remodeling and Repair. *JACC Basic To Translational Science*, **2017**, 2, 450-464	8.7	30
99	Adhesive-Enhanced Sternal Closure: Feasibility and Safety of Late Sternal Reentry. *Case Reports in Surgery*, **2017**, 2017, 8605313	0.5	4
98	Safety and efficacy of prophylactic negative pressure wound therapy following open saphenous vein harvest in cardiac surgery: a feasibility study. *Interactive Cardiovascular and Thoracic Surgery*, **2017**, 24, 324-328	1.8	15
97	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. *Journal of the American Heart Association*, **2017**, 6,	6	81
96	Mind the Gap: Current Challenges and Future State of Heart Failure Care. *Canadian Journal of Cardiology*, **2017**, 33, 1434-1449	3.8	13
95	Evolution of Precision Medicine and Surgical Strategies for Bicuspid Aortic Valve-Associated Aortopathy. *Frontiers in Physiology*, **2017**, 8, 475	4.6	6
94	Reply: Importance of Stress Mapping of Aortic Wall in Aortic Valve Disease. *Journal of the American College of Cardiology*, **2016**, 67, 1756-7	15.1	
93	Epicardial infarct repair with bioinductive extracellular matrix promotes vasculogenesis and myocardial recovery. *Journal of Heart and Lung Transplantation*, **2016**, 35, 661-70	5.8	35

92	Differential impact of mechanical unloading on structural and nonstructural components of the extracellular matrix in advanced human heart failure. *Translational Research*, **2016**, 172, 30-44	11	25
91	Reply: Final Common Pathway of Aortic Dilation?: Heterogeneity of Aortic Wall Property Causes the Aneurysmal Change. *Journal of the American College of Cardiology*, **2016**, 67, 735-736	15.1	
90	Year in review: bicuspid aortopathy. *Current Opinion in Cardiology*, **2016**, 31, 132-8	2.1	16
89	Monocytes increase human cardiac myofibroblast-mediated extracellular matrix remodeling through TGF-1. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H716-24	5.2	43
88	Statin Use and Aneurysm Risk in Patients With Bicuspid Aortic Valve Disease. *Clinical Cardiology*, **2016**, 39, 41-7	3.3	13
87	Role of mutation and pharmacologic block of human KCNH2 in vasculogenesis and fetal mortality: partial rescue by transforming growth factor-*Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 420-8	6.4	7
86	Comparison of outcomes and presentation in men-versus-women with bicuspid aortic valves undergoing aortic valve replacement. *American Journal of Cardiology*, **2015**, 116, 250-5	3	21
85	Valve-Related Hemodynamics Mediate Human Bicuspid Aortopathy: Insights From Wall Shear Stress Mapping. *Journal of the American College of Cardiology*, **2015**, 66, 892-900	15.1	251
84	Tetrandrine reverses human cardiac myofibroblast activation and myocardial fibrosis. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 308, H1564-74	5.2	18
83	Characterization of abnormal wall shear stress using 4D flow MRI in human bicuspid aortopathy. *Annals of Biomedical Engineering*, **2015**, 43, 1385-97	4.7	61
82	Fibroblast growth factor-2 regulates human cardiac myofibroblast-mediated extracellular matrix remodeling. *Journal of Translational Medicine*, **2015**, 13, 147	8.5	46
81	Extracellular Matrix and Cardiac Disease: Surgical and Scientific Perspectives **2015**, 323-346		
80	Human cardiac fibroblast extracellular matrix remodeling: dual effects of tissue inhibitor of metalloproteinase-2. *Cardiovascular Pathology*, **2014**, 23, 335-43	3.8	24
79	Canadian Cardiovascular Society/Canadian Association of Interventional Cardiology/Canadian Society of Cardiac Surgery position statement on revascularization--multivessel coronary artery disease. *Canadian Journal of Cardiology*, **2014**, 30, 1482-91	3.8	40
78	Effect of aortic aneurysm replacement on outcomes after bicuspid aortic valve surgery: validation of contemporary guidelines. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 2060-9	1.5	19
77	Epicardial infarct repair with basic fibroblast growth factor-enhanced CorMatrix-ECM biomaterial attenuates postischemic cardiac remodeling. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 147, 1650-9	1.5	50
76	Mitochondrial NLRP3 protein induces reactive oxygen species to promote Smad protein signaling and fibrosis independent from the inflammasome. *Journal of Biological Chemistry*, **2014**, 289, 19571-84	5.4	99
75	Response to letter regarding article, "Bicuspid aortic cusp fusion morphology alters aortic three-dimensional outflow patterns, wall shear stress, and expression of aortopathy". *Circulation*, **2014**, 130, e171	16.7	6

74	Na(+) current expression in human atrial myofibroblasts: identity and functional roles. *Frontiers in Physiology*, **2014**, 5, 275	4.6	20
73	Bicuspid aortic cusp fusion morphology alters aortic three-dimensional outflow patterns, wall shear stress, and expression of aortopathy. *Circulation*, **2014**, 129, 673-82	16.7	274
72	Knowledge, attitudes, and practice patterns in surgical management of bicuspid aortopathy: a survey of 100 cardiac surgeons. *Journal of Thoracic and Cardiovascular Surgery*, **2013**, 146, 1033-1040.e4	1.5	61
71	Comparison of coronary artery bypass surgery and percutaneous coronary intervention in patients with diabetes: a meta-analysis of randomised controlled trials. *Lancet Diabetes and Endocrinology,the*, **2013**, 1, 317-28	18.1	140
70	The molecular fingerprint of bicuspid aortopathy. *Journal of Thoracic and Cardiovascular Surgery*, **2013**, 145, 1334	1.5	14
69	Health technology assessments and innovation. *Nature Biotechnology*, **2013**, 31, 970-1	44.5	
68	Canadian cardiac surgeonsR perspectives on biomedical innovation. *Canadian Journal of Cardiology*, **2012**, 28, 607-10	3.8	
67	Cell therapy limits myofibroblast differentiation and structural cardiac remodeling: basic fibroblast growth factor-mediated paracrine mechanism. *Circulation: Heart Failure*, **2012**, 5, 349-56	7.6	27
66	Enhancing sternal closure using Kryptonite bone adhesive: technical report. *Surgical Innovation*, **2011**, 18, NP8-11	2	19
65	Catalyzing capital for CanadaR life sciences industry. *Journal of Commercial Biotechnology*, **2011**, 17, 330-348	2	3
64	Adhesive-enhanced sternal closure to improve postoperative functional recovery: a pilot, randomized controlled trial. *Annals of Thoracic Surgery*, **2011**, 92, 1444-50	2.7	30
63	Kryptonite bone cement prevents pathologic sternal displacement. *Annals of Thoracic Surgery*, **2010**, 90, 979-85	2.7	41
62	Hepatocyte growth factor or vascular endothelial growth factor gene transfer maximizes mesenchymal stem cell-based myocardial salvage after acute myocardial infarction. *Circulation*, **2009**, 120, S247-54	16.7	180
61	Cell-based gene therapy modifies matrix remodeling after a myocardial infarction in tissue inhibitor of matrix metalloproteinase-3-deficient mice. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 137, 471-80	1.5	22
60	Paracrine effects of cell transplantation: modifying ventricular remodeling in the failing heart. *Seminars in Thoracic and Cardiovascular Surgery*, **2008**, 20, 87-93	1.7	38
59	Evolving concepts and technologies in mitral valve repair. *Circulation*, **2008**, 117, 963-74	16.7	127
58	Bicuspid aortic valve syndrome: heterogeneous but predictable?. *European Heart Journal*, **2008**, 29, 432-3	9.5	17
57	Determinants of health-related quality of life in adults with congenital heart disease. *Congenital Heart Disease*, **2007**, 2, 301-13	3.1	26

56	TIMP-3 deficiency accelerates cardiac remodeling after myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2007**, 43, 733-43	5.8	50
55	Use of diffusion tensor imaging to predict myocardial viability after warm global ischemia: possible avenue for use of non-beating donor hearts. *Journal of Heart and Lung Transplantation*, **2007**, 26, 376-83	5.8	21
54	Integrin-linked kinase expression is elevated in human cardiac hypertrophy and induces hypertrophy in transgenic mice. *Circulation*, **2006**, 114, 2271-9	16.7	101
53	Stem cell factor deficiency is vasculoprotective: unraveling a new therapeutic potential of imatinib mesylate. *Circulation Research*, **2006**, 99, 617-25	15.7	66
52	C-Reactive protein upregulates receptor for advanced glycation end products expression in human endothelial cells. *Hypertension*, **2006**, 48, 504-11	8.5	58
51	Altered expression of disintegrin metalloproteinases and their inhibitor in human dilated cardiomyopathy. *Circulation*, **2006**, 113, 238-45	16.7	86
50	C-reactive protein alters antioxidant defenses and promotes apoptosis in endothelial progenitor cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 2476-82	9.4	109
49	Cardioprotective c-kit+ cells are from the bone marrow and regulate the myocardial balance of angiogenic cytokines. *Journal of Clinical Investigation*, **2006**, 116, 1865-77	15.9	418
48	Cardiac remodeling and failure: from molecules to man (Part I). *Cardiovascular Pathology*, **2005**, 14, 1-11	3.8	90
47	Cardiac remodeling and failure From molecules to man (Part II). *Cardiovascular Pathology*, **2005**, 14, 49-60	3.8	101
46	Cardiac remodeling and failure: from molecules to man (Part III). *Cardiovascular Pathology*, **2005**, 14, 109-19	3.8	30
45	Combined endothelial and myocardial protection by endothelin antagonism enhances transplant allograft preservation. *Journal of Thoracic and Cardiovascular Surgery*, **2005**, 129, 407-15	1.5	22
44	Cell transplantation preserves matrix homeostasis: a novel paracrine mechanism. *Journal of Thoracic and Cardiovascular Surgery*, **2005**, 130, 1430-9	1.5	47
43	Cell transplantation preserves cardiac function after infarction by infarct stabilization: augmentation by stem cell factor. *Journal of Thoracic and Cardiovascular Surgery*, **2005**, 130, 1310	1.5	72
42	Cell Transplantation **2005**, 325-343		
41	Tetrahydrobiopterin deficiency exaggerates intimal hyperplasia after vascular injury. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 289, R299-304	3.2	14
40	Bicuspid aortic valve disease: recent insights in pathophysiology and treatment. *Expert Review of Cardiovascular Therapy*, **2005**, 3, 295-308	2.5	52
39	Tissue-Engineered Grafts Matured in the Right Ventricular Outflow Tract. *Cell Transplantation*, **2004**, 13, 169-177	4	29

38	Rosiglitazone facilitates angiogenic progenitor cell differentiation toward endothelial lineage: a new paradigm in glitazone pleiotropy. *Circulation*, **2004**, 109, 1392-400	16.7	130
37	Off-pump coronary artery bypass surgery: fundamentals for the clinical cardiologist. *Circulation*, **2004**, 109, 1206-11	16.7	24
36	TIMP-3 deficiency leads to dilated cardiomyopathy. *Circulation*, **2004**, 110, 2401-9	16.7	129
35	C-reactive protein upregulates complement-inhibitory factors in endothelial cells. *Circulation*, **2004**, 109, 833-6	16.7	66
34	C-reactive protein attenuates endothelial progenitor cell survival, differentiation, and function: further evidence of a mechanistic link between C-reactive protein and cardiovascular disease. *Circulation*, **2004**, 109, 2058-67	16.7	460
33	Enhanced IGF-1 expression improves smooth muscle cell engraftment after cell transplantation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H2840-9	5.2	42
32	Should the ascending aorta be replaced more frequently in patients with bicuspid aortic valve disease?. *Journal of Thoracic and Cardiovascular Surgery*, **2004**, 128, 677-83	1.5	236
31	Novel cardioprotective effects of pravastatin in human ventricular cardiomyocytes subjected to hypoxia and reoxygenation: beneficial effects of statins independent of endothelial cells. *Journal of Surgical Research*, **2004**, 119, 66-71	2.5	31
30	Cardiac restoration by cell transplantation. *International Journal of Cardiology*, **2004**, 95 Suppl 1, S5-7	3.2	5
29	Resistin promotes endothelial cell activation: further evidence of adipokine-endothelial interaction. *Circulation*, **2003**, 108, 736-40	16.7	536
28	Does ischemic preconditioning afford clinically relevant cardioprotection?. *American Journal of Cardiovascular Drugs*, **2003**, 3, 1-11	4	6
27	Matrix remodeling in experimental and human heart failure: a possible regulatory role for TIMP-3. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H626-34	5.2	81
26	Caveolin: a key target for modulating nitric oxide availability in health and disease. *Molecular and Cellular Biochemistry*, **2003**, 247, 101-9	4.2	8
25	C-reactive protein activates the nuclear factor-kappaB signal transduction pathway in saphenous vein endothelial cells: implications for atherosclerosis and restenosis. *Journal of Thoracic and Cardiovascular Surgery*, **2003**, 126, 1886-91	1.5	73
24	Vascular matrix remodeling in patients with bicuspid aortic valve malformations: implications for aortic dilatation. *Journal of Thoracic and Cardiovascular Surgery*, **2003**, 126, 797-806	1.5	330
23	Evaluation of a novel sutureless anastomotic connector: from endothelial function to mid-term clinical and angiographic follow-up. *Journal of Thoracic and Cardiovascular Surgery*, **2003**, 126, 1555-60	1.5	5
22	Transplantation of cryopreserved muscle cells in dilated cardiomyopathy: effects on left ventricular geometry and function. *Journal of Thoracic and Cardiovascular Surgery*, **2003**, 126, 1537-48	1.5	28
21	Endothelial progenitor cells: new hope for a broken heart. *Circulation*, **2003**, 107, 3093-100	16.7	233

20	Hyperglycemia potentiates the proatherogenic effects of C-reactive protein: reversal with rosiglitazone. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 417-9	5.8	45
19	Invited commentary. *Annals of Thoracic Surgery*, **2003**, 76, 486	2.7	
18	Restoration and regeneration of failing myocardium with cell transplantation and tissue engineering. *Seminars in Thoracic and Cardiovascular Surgery*, **2003**, 15, 277-86	1.7	13
17	C-reactive protein upregulates angiotensin type 1 receptors in vascular smooth muscle. *Circulation*, **2003**, 107, 1783-90	16.7	433
16	Cell transplantation to improve ventricular function in the failing heart. *European Journal of Cardio-thoracic Surgery*, **2003**, 23, 907-16	3	22
15	Glitazones and heart failure: critical appraisal for the clinician. *Circulation*, **2003**, 107, 1350-4	16.7	79
14	Novel cardioprotective effects of tetrahydrobiopterin after anoxia and reoxygenation: Identifying cellular targets for pharmacologic manipulation. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1074-83	1.5	44
13	Increased endothelin-1 production in diabetic patients after cardioplegic arrest and reperfusion impairs coronary vascular reactivity: reversal by means of endothelin antagonism. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1114-9	1.5	34
12	Hyperglycemia exaggerates ischemia-reperfusion-induced cardiomyocyte injury: reversal with endothelin antagonism. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1120-4	1.5	57
11	Cell transplantation in non-ischemic dilated cardiomyopathy. A novel biological approach for ventricular restoration. *General Thoracic and Cardiovascular Surgery*, **2002**, 50, 457-60		6
10	Endothelin antagonism and interleukin-6 inhibition attenuate the proatherogenic effects of C-reactive protein. *Circulation*, **2002**, 105, 1890-6	16.7	507
9	Fundamentals of reperfusion injury for the clinical cardiologist. *Circulation*, **2002**, 105, 2332-6	16.7	297
8	Clinical and pathophysiological implications of a bicuspid aortic valve. *Circulation*, **2002**, 106, 900-4	16.7	568
7	A self-fulfilling prophecy: C-reactive protein attenuates nitric oxide production and inhibits angiogenesis. *Circulation*, **2002**, 106, 913-9	16.7	821
6	Endothelin blockade potentiates endothelial protective effects of ACE inhibitors in saphenous veins. *Annals of Thoracic Surgery*, **2002**, 73, 1185-8	2.7	12
5	Mechanical Stretch Regimen Enhances the Formation of Bioengineered Autologous Cardiac Muscle Grafts. *Circulation*, **2002**, 106,	16.7	45
4	Cell transplantation, ventricular remodeling, and the extracellular matrix. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 0584-0585	1.5	2
3	Aortic valve malformations and pulmonary autograft root dilatation. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 123, 1222-3; author reply 1223-4	1.5	4

2	Mechanical stretch regimen enhances the formation of bioengineered autologous cardiac muscle grafts. *Circulation*, **2002**, 106, I137-42	16.7	134
1	The role of the plasma from platelet concentrates in transfusion reactions. *New England Journal of Medicine*, **1994**, 331, 625-8	59.2	434