

Robert Jay Lederman

List of Publications by Citations

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215
papers

7,504
citations

49
h-index

80
g-index

255
ext. papers

8,821
ext. citations

5.6
avg, IF

5.63
L-index

#	Paper	IF	Citations
215	Regional angiogenesis with vascular endothelial growth factor in peripheral arterial disease: a phase II randomized, double-blind, controlled study of adenoviral delivery of vascular endothelial growth factor 121 in patients with disabling intermittent claudication. <i>Circulation</i> , 2003 , 108, 1933-8	16.7	472
214	Therapeutic angiogenesis with recombinant fibroblast growth factor-2 for intermittent claudication (the TRAFFIC study): a randomised trial. <i>Lancet, The</i> , 2002 , 359, 2053-8	40	427
213	Serial cardiac magnetic resonance imaging of injected mesenchymal stem cells. <i>Circulation</i> , 2003 , 108, 1009-14	16.7	411
212	NT5E mutations and arterial calcifications. <i>New England Journal of Medicine</i> , 2011 , 364, 432-42	59.2	312
211	Magnetic resonance fluoroscopy allows targeted delivery of mesenchymal stem cells to infarct borders in Swine. <i>Circulation</i> , 2003 , 108, 2899-904	16.7	203
210	Primary renal artery stenting: characteristics and outcomes after 363 procedures. <i>American Heart Journal</i> , 2001 , 142, 314-23	4.9	198
209	Caval-aortic access to allow transcatheter aortic valve replacement in otherwise ineligible patients: initial human experience. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 2795-804	15.1	137
208	Transcaval Access and Closure for Transcatheter Aortic Valve Replacement: A Prospective Investigation. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 511-521	15.1	134
207	Catheter-Based Endomyocardial Injection With Real-Time Magnetic Resonance Imaging. <i>Circulation</i> , 2002 , 105, 1282-1284	16.7	125
206	Detection of atherosclerosis using a novel positron-sensitive probe and 18-fluorodeoxyglucose (FDG). <i>Nuclear Medicine Communications</i> , 2001 , 22, 747-53	1.6	119
205	Transcatheter Laceration of Aortic Leaflets to Prevent Coronary Obstruction During Transcatheter Aortic Valve Replacement: Concept to First-in-Human. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 677-689	5	110
204	Incomplete retention after direct myocardial injection. <i>Catheterization and Cardiovascular Interventions</i> , 2002 , 55, 392-7	2.7	110
203	Intentional Percutaneous Laceration of the Anterior Mitral Leaflet to Prevent Outflow Obstruction During Transcatheter Mitral Valve Replacement: First-in-Human Experience. <i>JACC: Cardiovascular Interventions</i> , 2017 , 10, 798-809	5	108
202	Acute hemodynamic changes during carotid artery stenting. <i>American Journal of Cardiology</i> , 1998 , 82, 1077-81	3	103
201	Real-time interactive MRI-guided cardiac surgery: aortic valve replacement using a direct apical approach. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 958-64	4.4	100
200	The BASILICA Trial: Prospective Multicenter Investigation of Intentional Leaflet Laceration to Prevent TAVR Coronary Obstruction. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 1240-1252	5	99
199	Predicting LVOT Obstruction After TMVR. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1349-1352	8.4	91

198	Anterior Leaflet Laceration to Prevent Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2521-2534	15.1	90
197	Cardiovascular interventional magnetic resonance imaging. <i>Circulation</i> , 2005 , 112, 3009-17	16.7	79
196	Percutaneous MR guided direct left atrial access to deliver large interventional devices. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
195	MR guided right heart catheterization - the NIH experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
194	Spiral imaging with off-resonance reconstruction for MRI-guided cardiovascular catheterizations using commercial off-the-shelf nitinol guidewires. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	78
193	Technologist primer for MRI right heart catheterization: the NIH and CNMC experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
192	An efficient, free-breathing protocol for MR right heart catheterization. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
191	Provocative MRI catheterization. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
190	Dual echo bSSFP for real-time positive contrast of passive nitinol guidewires in MRI-guided cardiovascular interventions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
189	Virtual Dye Angiography: flow visualization for MRI-guided interventions using endogenous contrast. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
188	Real-time MRI guided percutaneous transthoracic left ventricular access and closure. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
187	Real-time accelerated interactive MRI with adaptive TSENSE and UNFOLD. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 315-21	4.4	77
186	Regional Angiogenesis with Vascular Endothelial Growth Factor (VEGF) in peripheral arterial disease: Design of the RAVE trial. <i>American Heart Journal</i> , 2003 , 145, 1114-8	4.9	74
185	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. <i>Radiology</i> , 2019 , 293, 384-393	20.5	72
184	Real-time MRI-guided right heart catheterization in adults using passive catheters. <i>European Heart Journal</i> , 2013 , 34, 380-9	9.5	71
183	Real-time magnetic resonance imaging-guided stenting of aortic coarctation with commercially available catheter devices in Swine. <i>Circulation</i> , 2005 , 112, 699-706	16.7	69
182	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement: From Computed Tomography to BASILICA. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 1197-1216	5	63
181	X-ray fused with magnetic resonance imaging (XFM) to target endomyocardial injections: validation in a swine model of myocardial infarction. <i>Circulation</i> , 2006 , 114, 2342-50	16.7	63

180	Catheter-based endomyocardial injection with real-time magnetic resonance imaging. <i>Circulation</i> , 2002 , 105, 1282-4	16.7	63
179	Interventional cardiovascular magnetic resonance: still tantalizing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008 , 10, 62	6.9	62
178	Transatrial intrapericardial tricuspid annuloplasty. <i>JACC: Cardiovascular Interventions</i> , 2015 , 8, 483-491	5	57
177	Real-time magnetic resonance-guided endovascular repair of experimental abdominal aortic aneurysm in swine. <i>Journal of the American College of Cardiology</i> , 2005 , 45, 2069-77	15.1	57
176	Mitral cerclage annuloplasty, a novel transcatheter treatment for secondary mitral valve regurgitation: initial results in swine. <i>Journal of the American College of Cardiology</i> , 2009 , 54, 638-51	15.1	55
175	Real-time volume rendered MRI for interventional guidance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2002 , 4, 431-42	6.9	55
174	Technology preview: X-ray fused with magnetic resonance during invasive cardiovascular procedures. <i>Catheterization and Cardiovascular Interventions</i> , 2007 , 70, 773-82	2.7	54
173	Coronary artery aneurysms in patients with hyper IgE recurrent infection syndrome. <i>Clinical Immunology</i> , 2007 , 122, 255-8	9	54
172	Interventional cardiovascular procedures guided by real-time MR imaging: an interactive interface using multiple slices, adaptive projection modes and live 3D renderings. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 1429-35	5.6	53
171	Real-time magnetic resonance imaging-guided endovascular recanalization of chronic total arterial occlusion in a swine model. <i>Circulation</i> , 2006 , 113, 1101-7	16.7	53
170	Testing clinical therapeutic angiogenesis using basic fibroblast growth factor (FGF-2). <i>British Journal of Pharmacology</i> , 2003 , 140, 637-46	8.6	53
169	Interventional cardiovascular magnetic resonance imaging: a new opportunity for image-guided interventions. <i>JACC: Cardiovascular Imaging</i> , 2009 , 2, 1321-31	8.4	51
168	Invasive human magnetic resonance imaging: feasibility during revascularization in a combined XMR suite. <i>Catheterization and Cardiovascular Interventions</i> , 2005 , 64, 265-74	2.7	51
167	Magnetic resonance image-guided trans-septal puncture in a swine heart. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 463-7	5.6	50
166	Bright-blood T(2)-weighted MRI has high diagnostic accuracy for myocardial hemorrhage in myocardial infarction: a preclinical validation study in swine. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 738-45	3.9	49
165	Intentional Laceration of the Anterior Mitral Valve Leaflet to Prevent Left Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement: Pre-Clinical Findings. <i>JACC: Cardiovascular Interventions</i> , 2016 , 9, 1835-43	5	49
164	Measurement of skeletal muscle perfusion during postischemic reactive hyperemia using contrast-enhanced MRI with a step-input function. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 289-98	4.4	48
163	How to perform transcaval access and closure for transcatheter aortic valve implantation. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 86, 1242-54	2.7	47

162	Real-time MRI guided atrial septal puncture and balloon septostomy in swine. <i>Catheterization and Cardiovascular Interventions</i> , 2006 , 67, 637-43	2.7	47
161	Kissing stents in the aortic bifurcation. <i>American Heart Journal</i> , 1998 , 136, 600-5	4.9	45
160	Undersampled projection reconstruction for active catheter imaging with adaptable temporal resolution and catheter-only views. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 216-22	4.4	42
159	Real-time distortion correction of spiral and echo planar images using the gradient system impulse response function. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 2278-85	4.4	40
158	VEGFR1/CXCR4-positive progenitor cells modulate local inflammation and augment tissue perfusion by a SDF-1-dependent mechanism. <i>Journal of Molecular Medicine</i> , 2008 , 86, 1221-32	5.5	38
157	Brucella arteritis: clinical manifestations, treatment, and prognosis. <i>Lancet Infectious Diseases</i> , 2014 , 14, 520-6	25.5	37
156	Anatomic Suitability for Transcaval Access Based on Computed Tomography. <i>JACC: Cardiovascular Interventions</i> , 2017 , 10, 1-10	5	36
155	Antegrade percutaneous closure of membranous ventricular septal defect using X-ray fused with magnetic resonance imaging. <i>JACC: Cardiovascular Interventions</i> , 2009 , 2, 224-30	5	35
154	Intrinsic conflicts of interest in clinical research: a need for disclosure. <i>Kennedy Institute of Ethics Journal</i> , 2003 , 13, 83-91	1.1	35
153	Interventional CMR: Clinical applications and future directions. <i>Current Cardiology Reports</i> , 2015 , 17, 31	4.2	33
152	MRI active guidewire with an embedded temperature probe and providing a distinct tip signal to enhance clinical safety. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 38	6.9	33
151	Intracoronary infusion of autologous mononuclear cells from bone marrow or granulocyte colony-stimulating factor-mobilized apheresis product may not improve remodelling, contractile function, perfusion, or infarct size in a swine model of large myocardial infarction. <i>European Heart Journal</i> , 2008 , 29, 1770-80	9.5	32
150	Real-time, Interactive MRI for cardiovascular interventions. <i>Academic Radiology</i> , 2005 , 12, 1121-7	4.3	31
149	Mitral Loop Cerclage Annuloplasty for Secondary Mitral Regurgitation: First Human Results. <i>JACC: Cardiovascular Interventions</i> , 2017 , 10, 597-610	5	30
148	Radiation-free CMR diagnostic heart catheterization in children. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 65	6.9	30
147	Integration of cardiac and respiratory motion into MRI roadmaps fused with x-ray. <i>Medical Physics</i> , 2013 , 40, 032302	4.4	30
146	Aortic access from the vena cava for large caliber transcatheter cardiovascular interventions: pre-clinical validation. <i>Journal of the American College of Cardiology</i> , 2013 , 61, 1745-6	15.1	29
145	A deflectable guiding catheter for real-time MRI-guided interventions. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 908-15	5.6	29

144	Adaptive noise cancellation to suppress electrocardiography artifacts during real-time interventional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 1184-93	5.6	29
143	MRI catheterization in cardiopulmonary disease. <i>Chest</i> , 2014 , 145, 30-36	5.3	28
142	MRI roadmap-guided transendocardial delivery of exon-skipping recombinant adeno-associated virus restores dystrophin expression in a canine model of Duchenne muscular dystrophy. <i>Gene Therapy</i> , 2013 , 20, 274-82	4	28
141	Imaging of myocardial infarction for diagnosis and intervention using real-time interactive MRI without ECG-gating or breath-holding. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 354-61	4.4	28
140	CMR fluoroscopy right heart catheterization for cardiac output and pulmonary vascular resistance: results in 102 patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 54	6.9	27
139	A practical global distortion correction method for an image intensifier based x-ray fluoroscopy system. <i>Medical Physics</i> , 2008 , 35, 997-1007	4.4	26
138	Long or redundant leaflet complicating transcatheter mitral valve replacement: Case vignettes that advocate for removal or reduction of the anterior mitral leaflet. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 92, 627-632	2.7	25
137	Closed-chest transthoracic magnetic resonance imaging-guided ventricular septal defect closure in swine. <i>JACC: Cardiovascular Interventions</i> , 2011 , 4, 1326-34	5	25
136	Transcatheter pledget-assisted suture tricuspid annuloplasty (PASTA) to create a double-orifice valve. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 92, E175-E184	2.7	24
135	The Fate of Transcaval Access Tracts: 12-Month Results of the Prospective NHLBI Transcaval Transcatheter Aortic Valve Replacement Study. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 448-456	5	23
134	Segmented nitinol guidewires with stiffness-matched connectors for cardiovascular magnetic resonance catheterization: preserved mechanical performance and freedom from heating. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 105	6.9	22
133	Active two-channel 0.035F guidewire for interventional cardiovascular MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 461-5	5.6	22
132	Usefulness of translesional pressure gradient and pharmacological provocation for the assessment of intermediate renal artery disease. <i>Catheterization and Cardiovascular Interventions</i> , 2006 , 68, 429-34	2.7	22
131	Real-time magnetic resonance imaging guidance improves the diagnostic yield of endomyocardial biopsy. <i>JACC Basic To Translational Science</i> , 2016 , 1, 376-383	8.7	22
130	Right heart catheterization using metallic guidewires and low SAR cardiovascular magnetic resonance fluoroscopy at 1.5 Tesla: first in human experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 41	6.9	21
129	Effect of mechanical assistance of the systemic ventricle in single ventricle circulation with cavopulmonary connection. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 147, 1271-5	1.5	21
128	Direct percutaneous left ventricular access and port closure: pre-clinical feasibility. <i>JACC: Cardiovascular Interventions</i> , 2011 , 4, 1318-25	5	21
127	Predicting Left Ventricular Outflow Tract Obstruction Despite Anterior Mitral Leaflet Resection: The "Skirt NeoLVOT". <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1356-1359	8.4	21

126	Transthoracic delivery of large devices into the left ventricle through the right ventricle and interventricular septum: preclinical feasibility. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 10	6.9	20
125	Robust automatic rigid registration of MRI and X-ray using external fiducial markers for XFM-guided interventional procedures. <i>Medical Physics</i> , 2011 , 38, 125-41	4.4	20
124	Magnetic resonance imaging-guided vascular interventions. <i>Topics in Magnetic Resonance Imaging</i> , 2005 , 16, 369-81	2.3	20
123	Magnetic Resonance Imaging-Guided Transcatheter Cavopulmonary Shunt. <i>JACC: Cardiovascular Interventions</i> , 2016 , 9, 959-70	5	20
122	Transcatheter Electrosurgery: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 1455-1470	15.1	19
121	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. <i>Medical Physics</i> , 2015 , 42, 359-71	4.4	19
120	Magnetic Resonance Sequences and Rapid Acquisition for MR-Guided Interventions. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015 , 23, 669-79	1.6	18
119	Whole shaft visibility and mechanical performance for active MR catheters using copper-nitinol braided polymer tubes. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11, 29	6.9	17
118	TAVR Roulette: Caution Regarding BASILICA Laceration for TAVR-in-TAVR. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 787-789	5	17
117	Real-time cardiovascular magnetic resonance subxiphoid pericardial access and pericardiocentesis using off-the-shelf devices in swine. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 61	6.9	16
116	Dual echo positive contrast bSSFP for real-time visualization of passive devices during magnetic resonance guided cardiovascular catheterization. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 88	6.9	16
115	Beating heart aortic valve replacement using real-time MRI guidance. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2007 , 2, 51-5	1.5	16
114	Electrosurgical Detachment of MitraClips From the Anterior Mitral Leaflet Prior to Transcatheter Mitral Valve Implantation. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 2361-2370	5	15
113	Transcaval Aortic Access for Percutaneous Thoracic Aortic Aneurysm Repair: Initial Human Experience. <i>Journal of Vascular and Interventional Radiology</i> , 2015 , 26, 1437-41	2.4	14
112	MRI-guided vascular access with an active visualization needle. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 1159-66	5.6	14
111	Interventional MRI using multiple 3D angiography roadmaps with real-time imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 1015-9	5.6	14
110	Cardiovascular involvement in AIDS. <i>Current Problems in Cardiology</i> , 1997 , 22, 109-48	17.1	14
109	Design of the therapeutic angiogenesis with recombinant fibroblast growth factor-2 for intermittent claudication (TRAFFIC) trial. <i>American Journal of Cardiology</i> , 2001 , 88, 192-5, A6-7	3	14

108	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement: Results From the Multicenter International BASILICA Registry. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, 941-948	5	14
107	Visualization of active devices and automatic slice repositioning ("SnapTo") for MRI-guided interventions. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1070-9	4.4	13
106	Blunt atrial transeptal puncture using excimer laser in swine. <i>Catheterization and Cardiovascular Interventions</i> , 2007 , 70, 585-90	2.7	13
105	Reduced field of view and undersampled PR combined for interventional imaging of a fully dynamic field of view. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 761-7	4.4	13
104	Blood speed imaging with an intraluminal array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000 , 47, 672-81	3.2	13
103	Planning transcaval access using CT for large transcatheter implants. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 1167-71	8.4	12
102	MRI-guided myocardial cell therapy. <i>International Journal of Cardiovascular Interventions</i> , 2005 , 7, 165-70		12
101	"Rescue" LAMPOON to Treat Transcatheter Mitral Valve Replacement-Associated Left Ventricular Outflow Tract Obstruction. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 1283-1284	5	12
100	A cardiovascular magnetic resonance (CMR) safe metal braided catheter design for interventional CMR at 1.5 T: freedom from radiofrequency induced heating and preserved mechanical performance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 16	6.9	11
99	Physiological Recording in the MRI Environment (PRiME): MRI-Compatible Hemodynamic Recording System. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018 , 6, 4100112	3	11
98	Transcatheter Mitral Valve Replacement After Transcatheter Electrosurgical Laceration of Alfieri STItCh (ELASTIC): First-in-Human Report. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 808-811	5	11
97	Intentional right atrial exit for microcatheter infusion of pericardial carbon dioxide or iodinated contrast to facilitate sub-xiphoid access. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 86, E111-18	2.7	11
96	Positive contrast spiral imaging for visualization of commercial nitinol guidewires with reduced heating. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 114	6.9	11
95	Real-time imaging system using a 12-MHz forward-looking catheter with single chip CMUT-on-CMOS array 2015 ,		11
94	Experimental model of large pulmonary embolism employing controlled release of subacute caval thrombus in swine. <i>Journal of Vascular and Interventional Radiology</i> , 2011 , 22, 1471-7	2.4	11
93	Real-time MR imaging-guided laser atrial septal puncture in swine. <i>Journal of Vascular and Interventional Radiology</i> , 2008 , 19, 1347-53	2.4	11
92	Interventional cardiovascular magnetic resonance imaging. <i>Trends in Cardiovascular Medicine</i> , 2007 , 17, 196-202	6.9	11
91	Transcatheter Myocardial Needle Chemoablation During Real-Time Magnetic Resonance Imaging: A New Approach to Ablation Therapy for Rhythm Disorders. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e003926	6.4	11

90	LAMPOON to Facilitate Tendyne Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 2014-2017	5	11
89	Antegrade Intentional Laceration of the Anterior Mitral Leaflet to Prevent Left Ventricular Outflow Tract Obstruction: A Simplified Technique From Bench to Bedside. <i>Circulation: Cardiovascular Interventions</i> , 2020 , 13, e008903	6	10
88	Transcaval access for TAVR across a polyester aortic graft. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 85, 1270-3	2.7	10
87	Limitations of closing percutaneous transthoracic ventricular access ports using a commercial collagen vascular closure device. <i>Catheterization and Cardiovascular Interventions</i> , 2011 , 77, 1079-85	2.7	9
86	High-resolution 3D arteriography of chronic total peripheral occlusions using a T1-W turbo spin-echo sequence with inner-volume imaging. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 40-9	4.4	9
85	Simultaneous imaging of myocardial motion and chamber blood flow with SPAMM nPEGGs (Spatial Modulation of Magnetization With Encoded Gradients for Gauging Speed). <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 809-17	5.6	9
84	Balloon-Assisted BASILICA to Facilitate Redo TAVR. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, 578-580	5	9
83	Intentional Right Atrial Exit and Carbon Dioxide Insufflation to Facilitate Subxiphoid Needle Entry Into the Empty Pericardial Space: First Human Experience. <i>JACC: Clinical Electrophysiology</i> , 2015 , 1, 434-441	4.6	8
82	First-in-Human Closed-Chest Transcatheter Superior Cavopulmonary Anastomosis. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 745-752	15.1	8
81	RT-GROG: parallelized self-calibrating GROG for real-time MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 306-12	4.4	8
80	Interventional-Cardiovascular MR: Role of the Interventional MR Technologist. <i>Radiologic Technology</i> , 2016 , 87, 261-70	1.1	8
79	Guidewire electrosurgery-assisted trans-septal puncture. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 91, 1164-1170	2.7	7
78	Distortion correction, calibration, and registration: toward an integrated MR and x-ray interventional suite 2005 ,		7
77	Blood volume measurement using cardiovascular magnetic resonance and ferumoxytol: preclinical validation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 62	6.9	7
76	Image Fusion Guided Device Closure of Left Ventricle to Right Atrium Shunt. <i>Circulation</i> , 2015 , 132, 1366-7	2.7	6
75	Tip-to-Base LAMPOON to Prevent Left Ventricular Outflow Tract Obstruction in Valve-in-Valve Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 1126-1128	5	6
74	MRI Catheterization: Ready for Broad Adoption. <i>Pediatric Cardiology</i> , 2020 , 41, 503-513	2.1	6
73	Pachyderm-Shape Guiding Catheters to Simplify BASILICA Leaflet Traversal. <i>Cardiovascular Revascularization Medicine</i> , 2019 , 20, 782-785	1.6	6

72	Fully percutaneous transthoracic left atrial entry and closure as a potential access route for transcatheter mitral valve interventions. <i>Circulation: Cardiovascular Interventions</i> , 2015 , 8, e002538	6	6
71	Active delivery cable tuned to device deployment state: enhanced visibility of nitinol occluders during preclinical interventional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 972-8	5.6	6
70	Virtual dye angiography: flow visualization for MRI-guided interventions. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1013-21	4.4	6
69	Magnetic resonance imaging and its role in myocardial regenerative therapy. <i>Regenerative Medicine</i> , 2006 , 1, 347-55	2.5	6
68	Annular-to-Apical "Emory Angle" to Ensure Coaxial Mitral Implantation of the SAPIEN 3 Valve. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 2447-2450	5	6
67	Acousto-Optic Catheter Tracking Sensor for Interventional MRI Procedures. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 1148-1154	5	6
66	Transcaval access for the emergency delivery of 5.0 liters per minute mechanical circulatory support in cardiogenic shock. <i>Catheterization and Cardiovascular Interventions</i> , 2021 , 97, 555-564	2.7	6
65	Concordance and diagnostic accuracy of vasodilator stress cardiac MRI and 320-detector row coronary CTA. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 109-19	2.5	5
64	Interactive black blood preparation for interventional cardiovascular MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	5
63	Pressure-wire based assessment of microvascular resistance using calibrated upstream balloon obstruction: a predictor of myocardial viability. <i>Catheterization and Cardiovascular Interventions</i> , 2012 , 80, 581-9	2.7	5
62	Efficient implementation of hardware-optimized gradient sequences for real-time imaging. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1814-20	4.4	5
61	Real-time magnetic resonance imaging to guide pediatric endovascular procedures. <i>Pediatric Cardiology</i> , 2005 , 26, 251-9	2.1	5
60	Percutaneous Stenting of Incidental Unilateral Renal Artery Stenosis: Decision Analysis of Costs and Benefits. <i>Journal of Endovascular Therapy</i> , 2003 , 10, 546-556	2.5	5
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